

1-800-881-4242  
www.Jameco.com

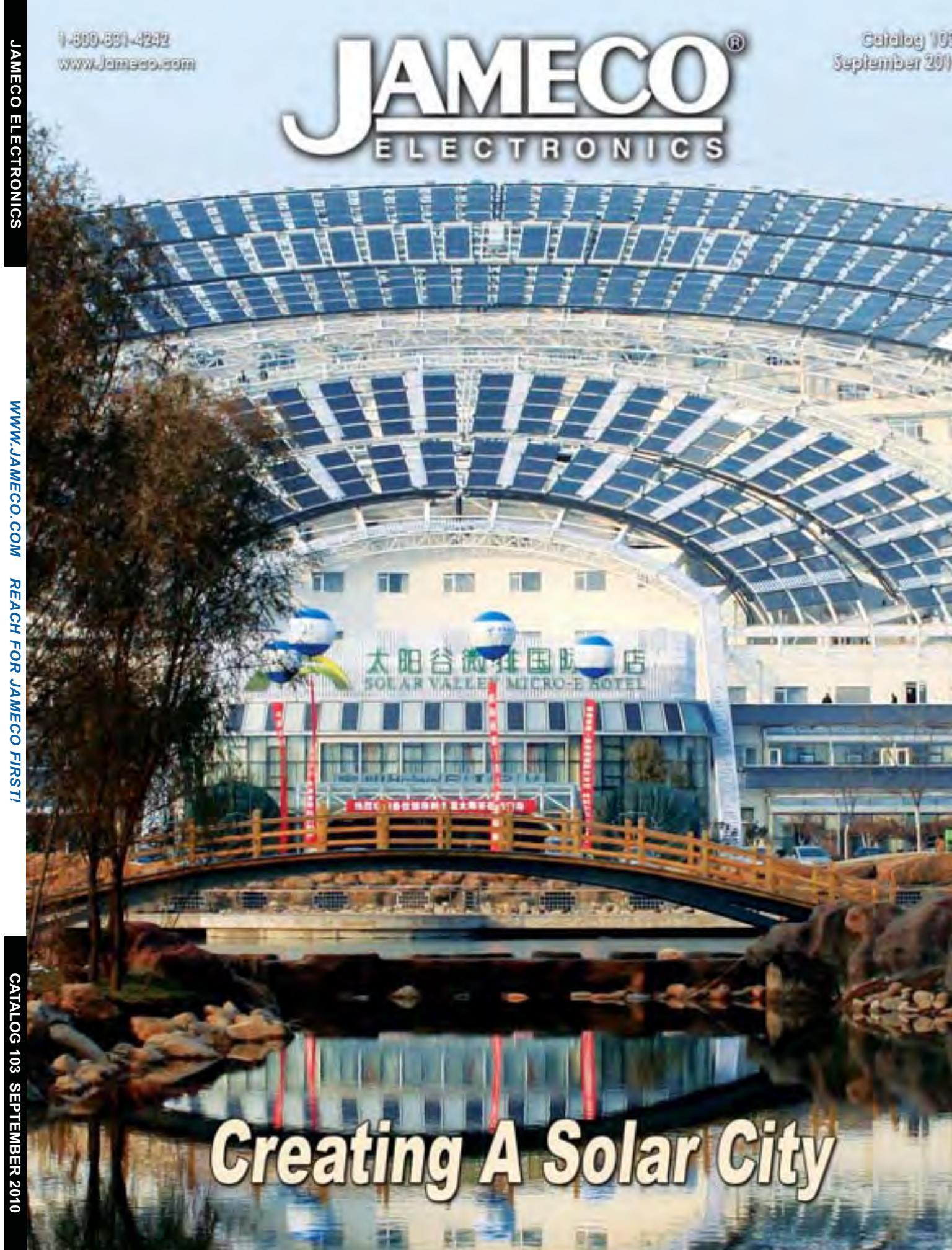
# JAMECO® ELECTRONICS

Catalog 103  
September 2010

JAMECO ELECTRONICS

WWW.JAMECO.COM REACH FOR JAMECO FIRST!

CATALOG 103 SEPTEMBER 2010



**Creating A Solar City**

# HOT PRODUCTS



## Power Supplies & DC to DC Converters

\* Web Code: MWP

Jameco carries the full line of Mean Well's extensive product offering. Whether you need internal or external power supplies Jameco has what you are looking for. If you don't see what you need or are looking for a large quantity quote, call us at 1-800-831-4242.

<b>GS25U:</b> Wall Mount	* Universal AC Input/Full Range * No Load Power Consumption <0.5W	* 2.1mm x 5.5mm Center Positive Female Plug * LED Indicator for Power On
<b>GS90:</b> Table Top	* Universal AC Input/Full Range * No Load Power Consumption <0.5W	* 2.5mm x 5.5mm Center Positive Female Plug * LED Indicator for Power On
<b>PS-45:</b> Open Frame	* Universal AC Input/Full Range * Low Leakage Current <0.5 mA	* Fixed switching Frequency at 65KHz
<b>RS-150:</b> Closed Frame	* Withstand 5G Vibration Test * Withstand 300VAC surge input for 5 seconds	* High Operating Temperature, up to 70C * Switch Selectable
<b>ELN-60:</b> LED Enclosed	* Suitable for LED Lighting & Moving Sign Applications * Universal AC Input/Full Range	* Built in Constant Current Limiting Circuit * UL1310 Class 2 Power Unit
<b>DR-30:</b> Din Rail	* Universal AC Input/Full Range * Isolation Class II	* Use Din Rail (248736) * LED Indicator for Power On
<b>SLW/SKE:</b> DC to DC Encap.	* 2:1 wide input voltage range * Soft start circuit, Limiting AC Surge current	* Universal Input Range * 1000VDC I/O Isolation

Part No.	Mfr. Part No.	Output Rating (V)	Output Current (A)	Watts	Input Voltage (VAC @ Hz)	Pricing		
						1	10	50
380156	GS25U12-P1J	12	2.08	25	90-264 @ 47-63	\$16.49	\$14.95	\$13.49
380173	GS25U15-P1J	15	1.67	25	90-264 @ 47-63	16.49	14.95	13.49
2078291	GS90A12-P1M	12	6.6	79.2	100-240 @ 50-60	44.49	41.49	38.95
2078338	GS90A24-P1M	24	3.75	90	100-240 @ 50-60	44.49	41.49	38.95

Part No.	Mfr. Part No.	Output Rating (V)	Output Current (A)	Watts	Input Voltage (VAC @ Hz)	Pricing		
						1	5	25
213728	PS-45-12	12	3.7	44.4	90-264 @ 47-440	\$15.95	\$14.95	\$13.95
213720	PS-45-24	24	1.9	45.6	90-264 @ 47-440	15.95	14.95	13.95
323839	RS-150-12	12	12.5	150	88-132/176-264 @ 47-63	41.95	38.95	35.95
323855	RS-150-24	24	6.5	156	88-132/176-264 @ 47-63	41.95	38.95	35.95
2105279	ELN-60-48	48	1.3	62.4	90-264 @ 47-63	33.95	31.95	29.95
2105308	ELN-60-12	12	5	60	90-264 @ 47-63	33.95	31.95	29.95
373182	DR-30-12	12	2	24	85-264 @ 47-63/120-370VDC	24.95	22.95	21.49
373203	DR-30-24	24	1.5	36	85-264 @ 47-63/120-370VDC	24.95	22.95	21.49
216937	SLW05B-05	5	1	5	18 to 36VDC	22.95	19.95	17.95
155708	SKE15A-12	12	1.25	15	9 to 18VDC	28.95	25.95	22.95

Additional Mean Well products on pages 135-146

## Arduino

Arduino is an open-source physical computing platform based on a simple microcontroller board. Create interactive objects that can read inputs from a variety of switches, sensors, and computers to control lights, motors, and other physical outputs.



**NEW**  
MARKED IN PINK

## Arduino Kits & Microcontroller Boards



2121113



2121130



2121148

1 5

\$34.95 \$32.95

64.95 59.95

72.95 66.95

23.95 21.95

42.95 38.95

58.95 54.95

1 5

\$39.95 \$36.95

More Tool Kits on pages 159-162

\* Web Code: ARD



## Ardweeny Microcontrollers & Breakout Board

Solarbotics has designed the smallest, handiest, breadboard friendly Arduino-compatible microcontroller using through-hole components, so it's perfect for beginners. The Ardweeny fits on the back of the included ATmega328 chip, helping to keep a very small footprint. Solder the pins and join the open-source hardware revolution. The Ardweeny requires an external USB-to-TTL FT232RL type adapter to configure and program.

- Stacks onto the back of an ATmega328 chip
- Features pin-13 LED and reset button
- Simple to build - only 7 parts plus pins and PCB
- Takes same 28-pin footprint as the microcontroller itself

2117341: Breakout board for FT232RL USB to serial IC, 5V or 3.3V user select

Part No.	Description	1	5
2117341	Basic breakout board, FTDI 3.3/5V Arduino, USB serial 6-pin	\$19.95	\$18.95
2115768	Ardweeny microcontroller kit, Arduino compatible, Atmega328, 7+ pcs.	13.95	13.25

Microcontrollers on page 11



2117341

2115768

PIC Programmers on pages 177-179



## Mindstorms NXT 2.0

Upgraded & Stronger Than Ever!

LEGO Mindstorms NXT is back and better than ever: new models, more customizable programming, and all new technologies! Mindstorms NXT 2.0 combines the versatility of the LEGO building system with an intelligent microcomputer brick and intuitive drag-and-drop programming software. The new 2.0 toolkit features everything you need to create your first robot in 30 minutes!

\* Web Code: ERK



- 32-bit microprocessor with large matrix display
- 3 interactive servo motors
- 4 input and 3 output ports
- 4 sensors: ultrasonic sensor, 2 touch sensors and color sensor
- Color sensor also functions as a lamp
- Easy-to-use software (PC & Mac) with icon-based drag-and-drop programming and 16 programming challenges
- Bluetooth & USB communication links
- Requires 6 AA batteries (not included, recommend P/N 198707 or 2112444)

Part No.	Mfr. Part No.	No. of Pieces	Price
2028644	8547	612	\$279.95

Complete Robotic selection on pages 190-191

## Variable High-Speed Rotary Tool Kit

Ideal for drilling, sanding & grinding: plastic, glass, ceramic, & metal and allows you the versatility to finish small hobby and do it yourself projects.

- Speed: 6000 ~ 32000rpm
- Motor power: 130W
- Collet capacity: 3.2mm
- 28-pc. sanding/grinding bit set
- Variable speed selector
- Weight: 2.2 lbs.

Part No.	Cross Ref. No.	1	5
2118977	GTT-514A...	\$39.95	\$36.95

More Tool Kits on pages 159-162

\* Web Code: ARD



2117341

2115768

PIC Programmers on pages 177-179

2115768

# Solar City

The Solar Valley Micro-E Hotel, located in Dezhou City China, sits at the center of what China hopes will become the world's first true solar city. The plan is to attract clean energy companies and create the Chinese version of California's Silicon Valley.

The hotel and conference center pictured on the cover is host to the 2010 International Solar Cities Congress and what better location than in a hotel that generates 70% of its energy needs from the sun and requires just 10% of the energy of a comparable conventional building.

Based on Jameco's sales trends, we think it's clear that energy consumption is increasingly one of the significant design themes of the next decade. Jameco has seen sales of LED products, LED power supplies, and solar panels all dramatically increase in sales.



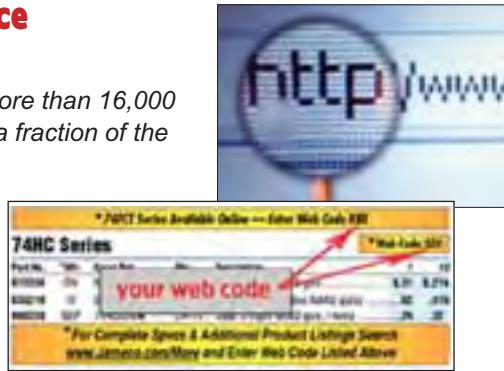
While Jameco stands ready with a range of the latest electronic component technologies to support our community of creators, we know that our future is firmly based in the past. Jameco is a company where we answer our phones, enjoy working with people and where customers have direct access to the management team. Thank you for being a part of the Jameco family.

## The Jameco Difference

### Eliminate the Search

This catalog is packed with more than 16,000 products but represents only a fraction of the products we carry on-line.

Quickly jump from catalog to website using Jameco web codes for more products, more specs and the latest pricing and availability information.



### Price Selection

Others may offer more products, but only Jameco offers three pricing tiers. We are a franchised distributor for over 150 brands and carry the brand name products you expect, but we also offer our house brands at a deep discount plus factory overrun inventory at even lower prices.

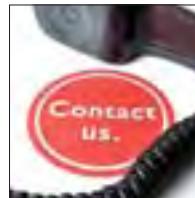
Name Brands

House Brands

Factory Overrun Inventory

### Not Just a Number

While technically all customers have a number in our database, we work hard to win the business of every customer. That means solving problems and going the extra mile to adapt to the unique requirements of each customer by treating them like real people. If for any reason that is not happening please write us at [Management@Jameco.com](mailto:Management@Jameco.com). This mailbox is managed exclusively by the management team and you will get a prompt response.



### Low Price Guarantee

We work hard to price our products below our competitors. That said, occasionally we miss something. If you find a lower published price for stocked products, let us know and we'll beat it right down to our cost.



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New Recipe Project See Page 113

Hot New Products See Page 204-205

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Prices are effective 8-16-2010.

Prices and discounts are subject to change without notice.

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Our goal is to provide you with more of what you want. Let us know how we can better serve your electronic needs. Send feedback to [Management@Jameco.com](mailto:Management@Jameco.com).

# Semiconductor Index

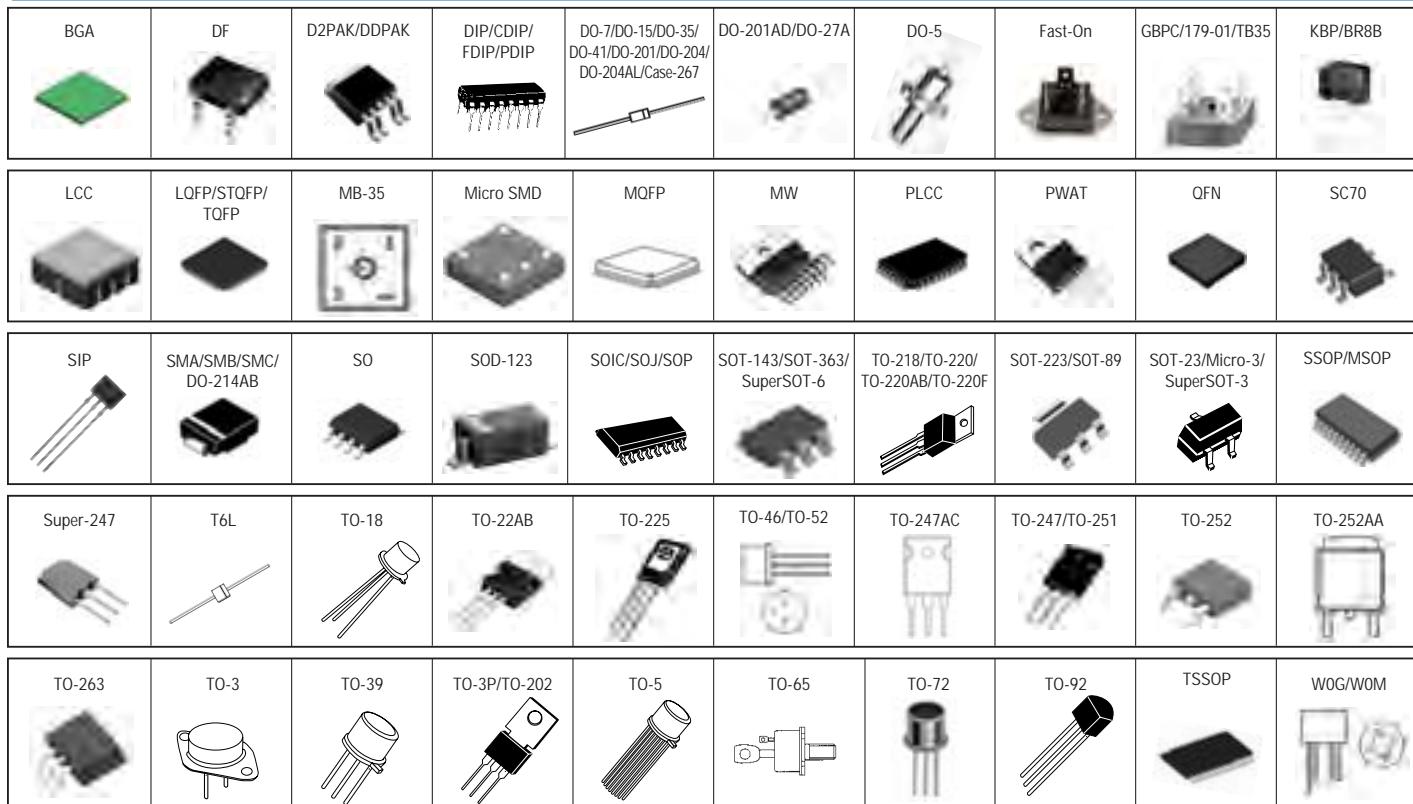
3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## IC Index

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Enter Web Code at [www.Jameco.com/more](http://www.Jameco.com/more).

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Please refer to datasheets at [www.Jameco.com](http://www.Jameco.com) for more detailed illustrations and specifications



## 7400 Series

\*Web Code: XAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
48979	◆	7400N**	DIP-14	Quad 2-input pos. NAND gate .....	\$1.09	\$99	\$89
910901	TI	SN7400N	DIP-14	Quad 2-input pos. NAND gate .....	1.19	1.09	.95
49007	◆	7401N	DIP-14	Quad 2-input NAND gate (O.C.) .....	.89	.79	.65
49015	◆	7402N*	DIP-14	Quad 2-input pos. NOR gate .....	1.29	1.09	.95
49040	◆	7404N**	DIP-14	Hex inverter .....	1.39	1.19	1.09
49074	◆	7405N*	DIP-14	Hex inverter (O.C.) .....	.69	.59	.45
49091	◆	7406N**	DIP-14	Hex inverter buffer/driver .....	.99	.89	.69
49120	◆	7407N**	DIP-14	Hex buffer/driver .....	.99	.89	.69
49146	◆	7408N*	DIP-14	Quad 2-input pos. AND gate .....	1.95	1.75	1.49
49189	◆	7410N*	DIP-14	Triple 3-input pos. NAND gate .....	.89	.79	.59
49402	◆	7413N	DIP-14	Dual 4-input pos. NAND gate .....	1.25	1.15	1.05
49437	◆	7414N*	DIP-14	Hex schmitt-trigger inverter .....	.89	.79	.69
49630	◆	7416N*	DIP-14	Hex inverter buffer/driver (O.C.) .....	1.19	1.09	.99
49728	◆	7417N*	DIP-14	Hex buffer/driver (O.C. hi-volt) .....	1.09	.99	.89
50008	◆	7420N*	DIP-14	Dual 4-input NAND gate .....	.99	.89	.75
50139	◆	7427N	DIP-14	Triple 3-input NOR gate .....	.89	.79	.69
50227	◆	7430N*	DIP-14	8-input NAND gate .....	.99	.89	.79
50235	◆	7432N*	DIP-14	Quad 2-input pos. OR gate .....	1.29	1.09	.95
50315	◆	7438N*	DIP-14	Quad 2-input NAND buffer .....	.99	.89	.79
50374	◆	7442N	DIP-16	4 line BCD to 10 line decimal decoder .....	1.45	1.25	1.15
50403	◆	7445N	DIP-16	BCD-to-decimal decoder/driver .....	1.55	1.35	1.09
50420	◆	7447N*	DIP-16	BCD-to-7 seg. decoder/driver .....	2.49	2.25	1.75
50526	◆	7472N	DIP-14	AND-gated J-K master-slave flip-flop .....	.89	.79	.69
50534	◆	7473N	DIP-14	Dual J-K neg-edge-triggered flip-flop .....	1.95	1.75	1.59
50551	◆	7474N**	DIP-14	Dual D type flip-flop .....	.99	.89	.79
50577	◆	7475N	DIP-16	4-bit bistable latch .....	2.75	2.49	2.25
50593	◆	7476N	DIP-16	Dual J-K pos-edge-triggered flip-flop .....	2.95	2.65	2.39
50631	◆	7483N	DIP-16	4-bit binary full adder .....	2.95	2.65	2.39
50657	◆	7485N*	DIP-16	4-bit magnitude comparator .....	2.49	2.25	1.95
50665	◆	7486N	DIP-14	Quad 2-input exclusive OR gate .....	1.95	1.75	1.49
50681	◆	7489N	DIP-16	64-bit read/write memory .....	3.95	3.75	3.49
50690	◆	7490N	DIP-14	Asynchronous decade counter .....	2.95	2.65	2.39
50745	◆	7493N	DIP-14	4-bit binary counter .....	1.95	1.75	1.49
50770	◆	7495N	DIP-14	4-bit parallel-access shift register .....	1.45	1.25	1.15
49234	◆	74107N*	DIP-14	Dual J-K flip-flop with clear .....	.79	.69	.59
49322	◆	74121N*	DIP-14	Monostable multivibrator .....	2.75	2.39	1.95
49357	◆	74123N*	DIP-16	Dual monostable multivibrator .....	1.75	1.59	1.45
49373	◆	74125N	DIP-14	Tri-state quad bus buffer .....	1.49	1.35	1.19
49496	◆	74148N	DIP-16	8-to-3 line priority encoder .....	1.19	1.09	.79
49509	◆	74150N	DIP-24	1-of-16 data selector/multiplexer .....	2.95	2.75	2.25
49525	◆	74151N*	DIP-16	1-of-8 data selector/multiplexer .....	.79	.69	.45
49550	◆	74153N*	DIP-16	Dual 4-to-1 data selector/multiplexer .....	1.19	1.09	.79
49568	◆	74154N	DIP-24	4-to-16 line decoder/demultiplexer .....	2.95	2.39	2.09
49605	◆	74157N*	DIP-16	Quad 2-to-1 line data selector .....	.99	.89	.79
49648	◆	74160N*	DIP-16	Synchronous decade counter .....	.59	.55	.49
49664	◆	74161N	DIP-16	4-bit Synchronous binary counter .....	.89	.79	.69
49672	◆	74163N	DIP-16	Synchronous 4-bit binary counter .....	.79	.69	.59
49681	◆	74164N	DIP-14	8-bit serial shift register .....	.89	.79	.59
49779	◆	74174N*	DIP-16	Hex D-type flip-flop with clear .....	.69	.59	.49
49795	◆	74175N*	DIP-16	Quad D-type flip-flop with clear .....	1.35	1.25	1.15
49832	◆	74180N	DIP-14	9-bit odd/even parity generator/checker .....	.99	.89	.49
49883	◆	74189N	DIP-16	Tri-state 64-bit RAM .....	2.95	2.75	2.49
49904	◆	74191N	DIP-16	Synch. 4-bit up/down binary counter .....	1.95	1.75	1.45
49912	◆	74192N	DIP-16	Synch. 4-bit up/down decade counter .....	3.95	3.75	3.49
49939	◆	74193N	DIP-16	Synch. 4-bit up/down binary counter .....	2.95	2.75	2.49
49955	◆	74194N	DIP-16	4-bit bi-directional shift register .....	1.75	1.55	1.35
49963	◆	74195N	DIP-16	4-bit parallel-access shift register .....	1.75	1.55	1.35

\*10 pcs./ \*\*20 pcs. in 7400 series IC cabinet kit, top right

## TTL Logic Data Book (1988)

**Texas Instruments** Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages)  
• Size: 6.0" x 8.5"



## 7400 Series IC Kit

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit  
10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7430, 7432, 7438, 7447, 7470, 7485, 74107, 74121, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74279  
20 each: 7400, 7404, 7406, 7407, 7474



SAVE \$202

Part No.	Description	Weight (lbs.)	1	5
84953	350 pcs. 7400 IC kit	6.2	\$199.95	\$179.95

## 74ABT/AC/ACT Series

Please Note: Manufacturer may vary

★ Web Code: CBA

Part No.	Product No.	Pkg.	Description	* Order in multiples of 10		
				1	10	100
266159	74ACT08M	SOIC-14	Quad 2-input pos. AND gate .....	* .15	.12	
211983	74ACT08N	DIP-14	Quad 2-input pos. AND gate .....	.25	.22	.17
264145	74AC10M	DIP-14	Triple 3-input pos. NAND gate .....	* .09	.06	
238887	74AC10N	DIP-14	Triple 3-input pos. NAND gate .....	.29	.25	.19
212003	74ACT32N	DIP-14	Quad 2-input pos. OR gate .....	* .15	.12	
212011	74ACT74N	DIP-14	Dual D type flip-flop .....	* .19	.17	
238730	74AC139N	DIP-16	Dual 2-to-4 decoder/demultiplexer .....	.25	.22	.17
238764	74AC157N	DIP-16	Quad 2-to-1 line data selector .....	.49	.39	.35
239054	74ACT174N	DIP-16	Hex D-type flip-flop with clear .....	.39	.35	.29
211908	74AC244N	DIP-20	Tri-state octal buffer/line driver .....	* .12	.09	
212054	74ACT244N	DIP-20	Tri-state octal buffer/line driver .....	* .15	.12	
214199	74AHC245N	DIP-20	Tri-state octal bus transceiver .....	* .15	.12	
214236	74AHC574N	DIP-20	Tri-state octal D-type flip-flop .....	.25	.22	.15
267371	74ACT715M	SOIC-20	Programmable video sync generator .....	6.95	5.95	4.95
291784	74ABT2244AD	SOIC-20	Tri-state octal buffer .....	* .15	.12	
291400	74ABT5402AD	SOIC-28	Tri-state 12-bit line/memory driver .....	2.95	2.49	1.95

## 74ALS/ALVC Series

Please Note: Manufacturer may vary

★ Web Code: SVC

Part No.	Product No.	Pkg.	Description	* Order in multiples of 10		
				1	10	100
245294	74ALS00AN	DIP-14	Quad 2-input pos. NAND gate .....	.25	.22	.19
314309	74ALVC00T	TSSOP-14	Quad 2-input pos. NAND gate .....	.25	.22	.12
245307	74ALS04BN	DIP-14	Hex inverter .....	* .15	.09	
314341	74ALVC08T	TSSOP-14	Quad 2-input pos. AND gate .....	.25	.22	.12
44134	74ALS32N	DIP-14	Quad 2-input pos. OR gate .....	.25	.22	.19
245892	74ALS74AN	DIP-14	Dual D-type flip-flop .....	.35	.25	.22
310295	74ALS244AM	SOIC-20	Tri-state octal buffer/line driver .....	.35	.25	.22
245788	74ALS258N	DIP-16	Quad 2-to-1 line data selector/multiplexer .....	.25	.22	.12

## 74C Series

★ Web Code: RAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
44222	◆	74COON	DIP-14	Quad 2-input pos. NAND gate .....	\$1.15	\$.95	\$.69
44231	◆	74CO4N	DIP-14	Hex inverter (CD4069) .....	.89	.79	.59
44257	◆	74C14N	DIP-14	Hex schmitt-trigger inverter (CD4016) .....	.79	.69	.59
44361	◆	74C221N	DIP-16	Dual monostable multivibrator .....	3.75	3.15	2.49
44396	◆	74C373N	DIP-20	Octal D-type transparent latch .....	2.95	2.49	2.15
44409	◆	74C374N	DIP-20	Octal D-type flip-flop .....	1.95	1.75	1.49
44521	◆	74C912N	DIP-28	6-digit BCD display controller/driver .....	4.95	4.49	3.95
44564	◆	74C922N	DIP-18	16-key keyboard encoder .....	6.49	5.49	5.35
871869	FSC	MM74C922N	DIP-18	16-key keyboard encoder .....	7.95	7.49	6.95
44572	◆	74C923N	DIP-20	20-key keyboard encoder .....	4.95	4.25	3.95
44599	◆	74C926N	DIP-18	4-digit counter w/ 7-seg. output driver .....	10.95	9.95	8.95

\* FSC = Fairchild Semiconductor | TI = Texas Instruments | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

## 74F Series

Please Note: Manufacturer may vary

**\* Web Code: CEN**

Part No.	Product No.	Pkg.	Description	1	10	100
286993	74F02N	DIP-14	Quad 2-input pos. NOR gate .....	\$ .29	\$ .25	\$ .22
287005	74F04N	DIP-14	Hex inverter .....	.35	.29	.25
287013	74F08N	DIP-14	Quad 2-input pos. AND gate .....	.25	.22	.19
44652	74F10N	DIP-14	Triple 3-input pos. NAND gate .....	.35	.29	.25
287654	74F14D	SOIC-14	Hex schmitt trigger inverter .....	.25	.22	.19
287021	74F14N	DIP-14	Hex schmitt trigger inverter .....	.25	.22	.19
245121	74F30N	DIP-14	8-input NAND gate .....	.35	.29	.25
287638	74F32D	SOIC-14	Quad 2-input pos. OR gate .....	.25	.22	.15
287048	74F32N	DIP-14	Quad 2-input pos. OR gate .....	.35	.29	.25
245139	74F38N	DIP-14	Quad 2-input NAND buffer .....	.29	.25	.22
287620	74F74D	SOIC-14	Dual D-type flip-flop .....	.25	.22	.15
287056	74F74N	DIP-14	Dual D-type flip-flop .....	.25	.22	.19
287611	74F86D	SOIC-14	Quad 2-input exclusive OR gate .....	.35	.29	.25
287064	74F86N	DIP-14	Quad 2-input exclusive OR gate .....	.35	.29	.25
287566	74F138D	SOIC-16	3-to-8 line decoder/demultiplexer .....	.25	.22	.15
287072	74F138N	DIP-16	3-to-8 line decoder/demultiplexer .....	.29	.25	.22
287081	74F139N	DIP-16	Dual 2-to-4 decoder/demultiplexer .....	.29	.25	.22
245163	74F148N	DIP-16	8-to-3 line priority encoder .....	.29	.25	.22
245171	74F157AN	DIP-16	Quad 2-to-1 line data selector .....	.29	.25	.22
282731	74F174N	DIP-16	Hex D-type flip-flop with clear .....	.29	.25	.22
287540	74F244D	SOIC-20	Tri-state octal buffer/line driver .....	.29	.25	.22
287144	74F245N	DIP-20	Tri-state octal bus transceiver .....	.35	.29	.25
283557	74F257D	SOIC-16	Quad 2-to-1 data selector/multiplexer .....	.29	.25	.22
287099	74F273N	DIP-20	Octal D-type flip-flop .....	.45	.39	.35
287494	74F373D	SOIC-20	Octal D-type transparent latch .....	.45	.39	.35
282642	74F573N	DIP-20	3-state octal D-type transparent latch .....	.25	.22	.12
287216	74F574N	DIP-20	Tri-state octal D-type flip-flop .....	.49	.39	.35
287460	74F574D	SOIC-20	Tri-state octal D-type flip-flop .....	.49	.39	.35

## 74HC Series

**\* Web Code: SDJ**

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
906291	NXP	74HC00D-T <del>A</del>	SOIC-14	Quad 2-input pos. NAND gate .....	* \$ .09	\$ .07	
45161	◆	74HC00N	DIP-14	Quad 2-input pos. NAND gate .....	.25	.22	.19
906339	NXP	74HC00N <del>A</del>	DIP-14	Quad 2-input pos. NAND gate .....	* .19	.15	
835219	TI	SN74HC00N <del>A</del>	DIP-14	Quad 2-input pos. NAND gate .....	.35	.29	.19
45188	◆	74HC02N	DIP-14	Quad 2-input pos. NOR gate .....	.29	.25	.22
906531	NXP	74HC04D-T <del>A</del>	SOIC-14	Hex inverter .....	* .09	.07	
45209	◆	74HC04N	DIP-14	Hex inverter .....	.29	.25	.22
250982	TI	SN74HC04N	DIP-14	Hex inverter .....	.35	.29	.25
835235	TI	SN74HC04N <del>A</del>	DIP-14	Hex inverter .....	.35	.29	.25
906574	NXP	74HC04N <del>A</del>	DIP-14	Hex inverter .....	.29	.25	.22
906611	NXP	74HC08D-T <del>A</del>	SOIC-14	Quad 2-input pos. AND gate .....	* .09	.07	
45225	◆	74HC08N	DIP-14	Quad 2-input pos. AND gate .....	.29	.25	.22
45364	◆	74HC14N	DIP-14	Hex schmitt-trigger inverter .....	.29	.25	.22
251045	TI	SN74HC14N	DIP-14	Hex schmitt-trigger inverter .....	.32	.27	.23
835340	TI	SN74HC14N <del>A</del>	DIP-14	Hex schmitt-trigger inverter .....	.35	.29	.25
45583	◆	74HC20N	DIP-14	Dual 4-input NAND gate .....	.29	.25	.19
915841	TI	SN74HC27DR <del>A</del>	SOIC-14	Triple 3-input pos. NOR gate .....	* .09	.08	
908799	NXP	74HC32D-T <del>A</del>	SOIC-14	Quad 2-input pos. OR gate .....	* .09	.07	
45794	◆	74HC32N	DIP-14	Quad 2-input pos. OR gate .....	.29	.25	.22
251088	TI	SN74HC32N	DIP-14	Quad 2-input pos. OR gate .....	.35	.29	.25
46130	◆	74HC74N	DIP-14	Dual D-type flip-flop .....	.29	.25	.22
251097	TI	SN74HC74NE4 <del>A</del>	DIP-14	Dual D-type flip-flop .....	.39	.35	.29
46181	◆	74HC86N	DIP-14	Quad 2-input exclusive OR gate .....	.25	.22	.19
45292	◆	74HC123N	DIP-16	Dual monostable multivibrator .....	.29	.25	.22
45305	◆	74HC125N	DIP-14	Tri-state quad bus buffer .....	.25	.22	.17
380146	TI	SN74HC132PW <del>A</del>	TSSOP-14	Quad 2-input NAND schmitt trigger .....	* .12	.09	
45321	◆	74HC132N	DIP-14	Quad 2-input NAND schmitt trigger .....	.35	.29	.25
86182	◆	74HC138D	SOIC-16	3-to-8 line decoder/demultiplexer .....	.25	.22	.12
45330	◆	74HC138N	DIP-16	3-to-8 line decoder/demultiplexer .....	.35	.29	.25

## 74HC Series (Continued)

**\* Web Code: SDJ**

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
45401	◆	74HC154N	DIP-24	4-to-16 line decoder (0.3" wide) .....	\$ .79	\$ .69	\$ .59
45487	◆	74HC164N	DIP-14	8-bit serial shift register .....	.29	.25	.22
251328	TI	SN74HC164N	DIP-14	8-bit serial shift register .....	.45	.39	.35
45495	◆	74HC165N	DIP-16	8-bit parallel load shift register .....	.25	.22	.19
251336	TI	SN74HC165N	DIP-16	8-bit parallel load shift register .....	.35	.29	.25
380437	TI	SN74HC174PW	TSSOP-20	Hex D-type flip-flop with clear .....	.25	.22	.12
45541	◆	74HC192N	DIP-16	Synch. 4-bit up/down decade counter .....	1.49	1.39	1.25
915551	TI	SN74HC244PW <del>A</del>	TSSOP-20	Tri-state octal buffer/line driver .....	* .15	.12	
45655	◆	74HC244N	DIP-20	Tri-state octal buffer/line driver .....	.25	.22	.19
45671	◆	74HC245N	DIP-20	Tri-state octal bus transceiver .....	.25	.22	.19
45719	◆	74HC257N	DIP-16	Quad 2-to-1 data selector/multiplexer .....	.25	.22	.17
45743	◆	74HC273N	DIP-20	Octal D-type flip-flop .....	.35	.29	.25
45831	◆	74HC373N	DIP-20	Octal D-type transparent latch .....	.35	.29	.25
86254	◆	74HC374D	SOIC-20	Octal D-type flip-flop .....	.25	.22	.15
45858	◆	74HC374N	DIP-20	Octal D-type flip-flop .....	.35	.29	.25
380998	◆	74HC540T	TSSOP-20	Tri-state octal buffer/line driver .....	.25	.22	.15
109760	◆	74HC540N	DIP-20	Tri-state octal buffer/line driver .....	.39	.35	.29
381000	TI	SN74HC541PW	TSSOP-20	Tri-state octal buffer/line driver .....	.25	.22	.12
46050	◆	74HC541N	DIP-20	Tri-state octal buffer/line driver .....	.39	.35	.29
46076	◆	74HC573N	DIP-20	3-st. octal D-type transparent latch .....	.29	.25	.22
46084	◆	74HC574N	DIP-20	Tri-state octal D-type flip-flop .....	.35	.29	.22
46105	◆	74HC595N	DIP-16	8-bit shift register w/ output latch .....	.35	.29	.25
911189	NXP	74HC595N <del>A</del>	DIP-16	8-bit shift register w/ output latch .....	.35	.29	.25
251643	TI	SN74HC595N	DIP-16	8-bit shift register w/ output latch .....	.45	.39	.35
46113	◆	74HC688N	DIP-20	8-bit identity comparator .....	.49	.45	.39
45891	◆	74HC4017N	DIP-16	Hi speed decade counter/divider .....	.39	.35	.29
272129	◆	74HC4053N	DIP-16	Triple 2-ch analog multiplexer .....	.29	.25	.22
45971	◆	74HC4066N	DIP-14	Quad bilateral analog switch .....	.35	.29	.25
252566	TI	CD74HC4316M	SOIC-16	High speed quad analog switch .....	.29	.25	.22

## 74HCT Series

Please Note: Manufacturer may vary

**\* Web Code: SAG**

Part No.	Product No.	Pkg.	Description	* Order in multiples of 10		
				1	10	100
246027	74HCT00M	SOIC-14	Quad 2-input pos. NAND gate .....	* \$ .09	\$ .07	
44871	74HCT00N	DIP-14	Quad 2-input pos. NAND gate .....	.25	.22	.15
44898	74HCT04N	DIP-14	Hex inverter .....	.25	.22	.17
63765	74HCT05N	DIP-14	Hex inverter (O.C.) .....	.29	.25	.22
44901	74HCT08N	DIP-14	Quad 2-input pos. AND gate .....	* .19	.15	
618046	74HCT10N <del>A</del>	DIP-14	Triple 3-input pos. NAND gate .....	.25	.22	.19
912296	74HCT14D-T <del>A</del>	SOIC-14	Hex schmitt-trigger inverter .....	* .09	.07	
44935	74HCT14N	DIP-14	Hex schmitt-trigger inverter .....	.25	.22	.19
45137	74HCT74N	DIP-14	Dual D-type flip-flop .....	.25	.22	.19
45145	74HCT86N	DIP-14	Quad 2-input exclusive OR gate .....	.29	.25	.22
44927	74HCT138N	DIP-16	3-to-8 decoder/demultiplexer .....	.29	.25	.22
381253	SN74HCT240PW	TSSOP-20	Octal buffer/line driver .....	* .15	.12	
45022	74HCT244N	DIP-20	Tri-state octal buffer/line driver .....	.29	.25	.22
45031	74HCT245N	DIP-20	Tri-state octal bus transceiver .....	.29	.25	.22
45065	74HCT373N	DIP-20	Octal D-type transparent latch .....	.29	.25	.22
45073	74HCT374N	DIP-20	Octal D-type flip-flop .....	.35	.29	.25
45090	74HCT573N	DIP-20	3-st. octal D-type transparent latch .....	.39	.35	.29

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\* NXP = NXP/Philip Semiconductor | TI = Texas Instruments | ▲ Manufacturer Varies

**R** RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)



**NXP / PHILIPS**

## 74LS Series

\* Web Code: NBS

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
46252	◆	74LS00N**	DIP-14	Quad 2-input pos. NAND gate .....	.39	.29	.25
46253	◆	74LS00N <del>B</del>	DIP-14	Quad 2-input pos. NAND gate .....	.45	.35	.29
283725	TI	SN74LS00N	DIP-14	Quad 2-input pos. NAND gate .....	.45	.35	.29
46287	◆	74LS02N**	DIP-14	Quad 2-input pos. NOR gate .....	.39	.29	.25
283741	TI	SN74LS02N	DIP-14	Quad 2-input pos. NOR gate .....	.45	.35	.29
283784	TI	SN74LS03N	DIP-14	Quad 2-input pos. NAND gate (O.C.)	.69	.49	.45
46316	◆	74LS04N**	DIP-14	Hex inverter .....	.39	.29	.25
283792	TI	SN74LS04N	DIP-14	Hex inverter .....	.45	.35	.29
46318	◆	74LS04N <del>B</del>	DIP-14	Hex inverter .....	.45	.35	.29
46341	◆	74LS05N*	DIP-14	Hex inverter (O.C.) .....	.45	.35	.29
46359	◆	74LS06N	DIP-14	Hex inverter buffer/driver .....	.75	.65	.55
46367	◆	74LS07N	DIP-14	Hex buffer/driver .....	.75	.65	.55
46375	◆	74LS08N**	DIP-14	Quad 2-input pos. AND gate .....	.39	.29	.25
295401	TI	SN74LS08N	DIP-14	Quad 2-input pos. AND gate .....	.45	.35	.29
46391	◆	74LS09N	DIP-14	Quad 2-input pos. AND gate (O.C.)	.45	.35	.29
46404	◆	74LS10N*	DIP-14	Triple 3-input pos. NAND gate .....	.55	.39	.35
46439	◆	74LS11N*	DIP-14	Triple 3-input pos. AND gate .....	.55	.39	.35
46640	◆	74LS14N*	DIP-14	Hex schmitt-trigger inverter .....	.39	.29	.25
295460	TI	SN74LS14N	DIP-14	Hex schmitt-trigger inverter .....	.45	.35	.29
47095	◆	74LS20N*	DIP-14	Dual 4-input NAND gate .....	.59	.49	.39
295478	TI	SN74LS20N	DIP-14	Dual 4-input NAND gate .....	.65	.55	.45
47108	◆	74LS21N	DIP-14	Dual 4-input AND gate .....	.49	.39	.29
47378	◆	74LS27N	DIP-14	Triple 3-input NOR gate .....	.59	.49	.39
47458	◆	74LS30N*	DIP-14	8-input NAND gate .....	.29	.25	.22
47466	◆	74LS32N**	DIP-14	Quad 2-input pos. OR gate .....	.35	.25	.22
295515	TI	SN74LS32N	DIP-14	Quad 2-input pos. OR gate .....	.49	.45	.39
47467	◆	74LS32N <del>B</del>	DIP-14	Quad 2-input pos. OR gate .....	.39	.29	.25
295558	TI	SN74LS37N	DIP-14	Quad 2-input pos. NAND buffer .....	.65	.55	.45
47773	◆	74LS42N	DIP-14	4 line BCD to 10 line decimal decoder .....	.85	.75	.65
47790	◆	74LS47N*	DIP-16	BCD-to-7 seg. decoder/driver .....	1.09	.89	.79
295582	TI	SN74LS47N	DIP-16	BCD-to-7 seg. decoder/driver .....	1.19	.99	.89
47811	◆	74LS48N	DIP-16	BCD-to-7 seg. decoder/driver .....	3.95	3.49	2.95
47992	◆	74LS73N*	DIP-14	Dual J-K neg-edge-triggered flip-flop .....	1.09	.95	.75
48004	◆	74LS74N**	DIP-14	Dual D-type flip-flop .....	.49	.39	.35
295726	TI	SN74LS74AN	DIP-14	Dual D-type flip-flop .....	.55	.45	.39
48021	◆	74LS75N*	DIP-16	4-bit bi-stable latch .....	1.15	.95	.79
295734	TI	SN74LS75N	DIP-16	4-bit bi-stable latch .....	1.25	1.05	.85
48039	◆	74LS76N	DIP-16	Dual J-K pos-edge-triggered flip-flop .....	1.29	1.19	1.09
48063	◆	74LS83N	DIP-16	4-bit binary full adder .....	2.19	1.99	1.79
48071	◆	74LS85N*	DIP-16	4-bit magnitude comparator .....	.79	.69	.59
295742	TI	SN74LS85N	DIP-16	4-bit magnitude comparator .....	.89	.79	.65
48098	◆	74LS86N*	DIP-14	Quad 2-input exclusive OR gate .....	.49	.39	.29
295751	TI	SN74LS86N	DIP-14	Quad 2-input exclusive OR gate .....	.55	.45	.35
48119	◆	74LS90N*	DIP-14	Asynchronous decade counter .....	1.25	1.15	.85
295769	TI	SN74LS90N	DIP-14	Asynchronous decade counter .....	1.35	1.25	.95
48143	◆	74LS92N	DIP-14	Divide-by-12 decade counter .....	1.49	1.29	1.09
48151	◆	74LS93N*	DIP-14	4-bit binary counter .....	1.25	1.05	.79
295822	TI	SN74LS93N	DIP-14	4-bit binary counter .....	1.35	1.15	.89
46412	◆	74LS107N	DIP-14	Dual J-K flip-flop with clear .....	1.05	.89	.69
46421	◆	74LS109N	DIP-16	Dual J-K bar flip-flop .....	.85	.75	.65
46447	◆	74LS112N	DIP-16	Dual J-K neg-edge-triggered flip-flop .....	.55	.45	.35
46471	◆	74LS122N	DIP-14	Retriggerable monostable multivibrator .....	.89	.79	.69
46480	◆	74LS123N*	DIP-16	Dual monostable multivibrator .....	.55	.45	.35
300880	TI	SN74LS123N	DIP-16	Dual monostable multivibrator .....	.59	.49	.39
46501	◆	74LS125N*	DIP-14	Tri-state quad bus buffer .....	.55	.45	.35
46527	◆	74LS126N	DIP-14	Tri-state quad bus buffer .....	.55	.45	.35
46551	◆	74LS132N	DIP-14	Quad 2-input NAND schmitt trigger .....	.59	.49	.39

\*10 pcs. / \*\*20 pcs. in 74LS series IC cabinet kit, pg 6

## 74LS Series (Continued)

\* Web Code: NBS

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
46586	◆	74LS136N	DIP-14	Quad 2-input exclusive OR gate .....	\$.39	\$.35	\$.25
46607	◆	74LS138N**	DIP-16	3-to-8 decoder/demultiplexer .....	.49	.39	.29
301233	TI	SN74LS138N	DIP-16	3-to-8 decoder/demultiplexer .....	.65	.55	.45
46608	◆	74LS138N <del>B</del>	DIP-16	3-to-8 decoder/demultiplexer .....	.69	.59	.49
46623	◆	74LS139N*	DIP-16	Dual 2-to-4 decoder/demultiplexer .....	.49	.39	.29
301268	TI	SN74LS139AN	DIP-16	Dual 2-to-4 decoder/demultiplexer .....	.55	.45	.35
46666	◆	74LS145N	DIP-16	BCD-to-decimal decoder(driver) .....	.59	.49	.39
301276	TI	SN74LS145N	DIP-16	BCD-to-decimal decoder(driver) .....	.65	.55	.45
46682	◆	74LS148N	DIP-16	8-to-3 line priority encoder .....	.95	.85	.75
46703	◆	74LS151N*	DIP-16	1-to-8 data selector/multiplexer .....	.65	.55	.45
46720	◆	74LS153N	DIP-16	Dual 4-to-1 data selector/multiplexer .....	.65	.55	.45
46738	◆	74LS154N	DIP-24	4-to-16 line decoder/demultiplexer .....	4.95	4.75	4.25
46754	◆	74LS155N*	DIP-16	Dual 2-to-4 line decoder/demultiplexer .....	.85	.75	.65
46771	◆	74LS157N*	DIP-16	Quad 2-to-1 line data selector .....	.49	.39	.29
46800	◆	74LS160N	DIP-16	Synchronous decade counter .....	2.49	2.25	2.05
46818	◆	74LS161N	DIP-16	4-bit synchronous binary counter .....	.55	.45	.35
301647	TI	SN74LS161AN	DIP-16	4-bit synchronous binary counter .....	.59	.49	.39
46842	◆	74LS163N	DIP-16	Synchronous 4-bit binary counter .....	.59	.49	.39
46851	◆	74LS164N	DIP-14	8-bit serial shift register .....	.55	.45	.35
46877	◆	74LS165N	DIP-16	8-bit parallel load shift register .....	.55	.45	.35
46885	◆	74LS166N	DIP-16	Serial-out shift register .....	.89	.79	.69
46906	◆	74LS169N	DIP-16	Synch. 4-bit binary up/down counter .....	.99	.89	.79
46922	◆	74LS173N	DIP-16	4-bit D-type register w/ 3-state output .....	.89	.79	.69
46931	◆	74LS174N*	DIP-16	Hex D-type flip-flop with clear .....	.69	.59	.49
46957	◆	74LS175N*	DIP-16	Quad D-type flip-flop with clear .....	.59	.49	.39
46973	◆	74LS181N	DIP-24	Arithmetic logic unit/function generator .....	2.95	2.75	2.49
46990	◆	74LS190N	DIP-16	Synchronous up/down decade counter .....	2.95	2.75	2.49
47001	◆	74LS191N	DIP-16	Synch. 4-bit up/down binary counter .....	.65	.55	.45
47010	◆	74LS192N	DIP-16	Synch. 4-bit up/down decade counter .....	3.49	3.25	2.95
47036	◆	74LS193N*	DIP-16	Synch. 4-bit up/down binary counter .....	.45	.39	.35
301831	TI	SN74LS193N	DIP-16	Synch. 4-bit up/down binary counter .....	.89	.79	.69
47052	◆	74LS194N	DIP-16	4-bit bi-directional shift register .....	.89	.79	.69
301858	TI	SN74LS194N	DIP-16	4-bit bi-directional shift register .....	.99	.89	.75
47061	◆	74LS195N	DIP-16	4-bit parallel-access shift register .....	2.05	1.95	1.75
47124	◆	74LS221N	DIP-16	Dual monostable multivibrator .....	.75	.65	.55
47141	◆	74LS240N*	DIP-20	Octal buffer/line driver .....	.59	.49	.39
308291	TI	SN74LS240N	DIP-20	Octal buffer/line driver .....	.65	.55	.45
47167	◆	74LS241N	DIP-20	Tri-state octal buffer/line driver .....	.65	.55	.45
47183	◆	74LS244N*	DIP-20	Tri-state octal buffer/line driver .....	.55	.45	.35
308312	TI	SN74LS244N <del>B</del>	DIP-20	Tri-state octal buffer/line driver .....	.59	.49	.39
47212	◆	74LS245N*	DIP-20	Tri-state octal bus transceiver .....	.65	.55	.39
308321	TI	SN74LS245N	DIP-20	Tri-state octal bus transceiver .....	.69	.59	.45
47247	◆	74LS247N	DIP-16	BCD to 7-seg. decoder/driver .....	1.09	.99	.89
47327	◆	74LS259N	DIP-16	8-bit addressable latch .....	.89	.79	.69
47360	◆	74LS266N	DIP-14	Quad 2-input exclusive NOR gate (O.C.) .....	.65	.55	.45
47386	◆	74LS273N*	DIP-20	Octal D-type flip-flop .....	.59	.49	.39
308398	TI	SN74LS273N	DIP-20	Octal D-type flip-flop .....	.65	.55	.45
47407	◆	74LS279N	DIP-16	Quad S-R latch .....	.75	.65	.55
47423	◆	74LS283N	DIP-16	4-bit binary full add w/ fast carry .....	.95	.85	.65
47554	◆	74LS366N	DIP-6	Tri-state hex buffer .....	.59	.49	.39
47562	◆	74LS367N	DIP-16	Tri-state hex buffer .....	.69	.59	.49
309278	TI	SN74LS368AN	DIP-16	6-bit buffer/line driver .....	.79	.69	.59
308460	TI	SN74LS373N	DIP-20	Octal D-type transparent latch .....	.59	.49	.39
47600	◆	74LS373N*	DIP-20	Octal D-type transparent latch .....	.55	.45	.35
308478	TI	SN74LS374N	DIP-20	Octal D-type flip-flop .....	.59	.49	.39
47634	◆	74LS374N*	DIP-20	Octal D-type flip-flop .....	.55	.45	.35
1944311	◆	74LS375N	DIP-16	4-bit bistable latch .....	.75	.65	.45
47669	◆	74LS377N	DIP-20	Octal D-type flip-flop .....	.85	.75	.65
47722	◆	74LS390N	DIP-16	Dual 4-bit decade counter .....	.95	.85	.75
47731	◆	74LS393N	DIP-14	Dual 4-bit binary counter .....	.75	.65	.55
47861	◆	74LS540N	DIP-20	Tri-state octal buffer/line driver .....	.89	.79	.69

\*10 pcs. / \*\*20 pcs. in 74LS series IC cabinet kit, pg 6

74LS Series continued on next page

\* TI = Texas Instruments | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

## 74LS Series (Continued)

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
47870	◆	74LS541N	DIP-20	Tri-state octal buffer/line driver ..	\$.75	\$.65	\$.55
64418	◆	74LS573	DIP-20	Tri-state octal D-type flip flop .....	2.19	2.05	1.95
64426	◆	74LS574	DIP-20	Tri-state octal D-type flip flop .....	2.19	2.05	1.95
103974	◆	74LS595N	DIP-16	8-bit shift register with output latch	4.95	4.49	3.95
47950	◆	74LS645N	DIP-20	Tri-state octal bus transceiver .....	1.09	.89	.79
47984	◆	74LS688N	DIP-20	8-bit identity comparator .....	1.25	1.05	.85

## 74LS Series IC Kit

SAVE \$76



Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374

20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

Part No.	Description	Wt. (lbs.)	1	5
84961	420 pcs. 74LS IC kit	6.7	\$149.95	\$129.95
130391	Refill for 84961 (420 pcs.)	2.0	134.95	119.95

See page 3 for our TTL Logic Data Book

## 74S Series

Please Note: Manufacturer may vary ★ Web Code: NCK

Part No.	Product No.	Pkg.	Description	1	10	100
48573	74S20N	DIP-14	Dual 4-input NAND gate .....	\$.65	\$.55	\$.45
48750	74S32N	DIP-14	Quad 2-input pos. OR gate .....	.55	.45	.35
48531	74S188N	DIP-16	(32 x 8) 256-bit TTL PROM (27S18) .....	5.95	5.49	4.95
48557	74S189N	DIP-16	(16 x 4) 64-bit RAM (27S03) .....	3.95	3.75	3.49
677020	74S244N	DIP-20	Tri-state octal buffer/line driver .....	.69	.55	.45
48696	74S287N	DIP-16	(256 x 4) 1024-bit TTL PROM (TBP24S10) .....	10.95	9.95	7.95
48717	74S288N	DIP-16	(32 x 8) 256-bit TTL PROM (TBP18S030N) .....	9.95	8.95	7.95
48805	74S387N	DIP-16	(256 x 4) 1024-bit TTL PROM (TBP24SA10N) .....	3.95	3.75	3.49
52513	74S428N★	DIP-28	System controller/bus driver (8228) .....	3.95	3.75	3.49
48864	74S472N	DIP-20	(512 x 8) 4096-bit TTL PROM (TBP28S42N) .....	12.95	11.95	10.95
48910	74S571N	DIP-16	(512 x 4) 2048-bit TTL PROM (AM27S13) .....	7.95	6.95	5.95

★ Pull = Extra Savings

## 4000 Series

★ Web Code: WAA

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
12562	◆	CD4001**	DIP-14	Quad 2-input NOR gate .....	\$.25	\$.22	\$.19
675964	◆	CD4002	DIP-14	Dual 4-input NOR gate .....	.29	.25	.22
12597	◆	CD4007	DIP-14	Dual complimentary pair plus inverter .....	.29	.25	.22
197270	◆	CD4011M	SOIC-14	Quad 2-input NAND gate .....	* .12	.09	
12634	◆	CD4011**	DIP-14	Quad 2-input NAND gate .....	.25	.22	.19
893283	TI	CD4011BE★	DIP-14	Quad 2-input NAND gate .....	.45	.39	.29
12677	◆	CD4013**	DIP-14	Dual D-type flip-flop .....	.29	.25	.22
893443	TI	CD4013BE★	DIP-14	Dual D-type flip-flop .....	.35	.25	.22
12706	◆	CD4015*	DIP-16	Dual 4-stage static shift register .....	.29	.25	.22
12722	◆	CD4016*	DIP-14	Quad bilateral switch .....	.29	.25	.22
197296	◆	CD4017M	SOIC-16	Decade counter/divider .....	*	.12	.09
12749	◆	CD4017*	DIP-16	Decade counter/divider .....	.35	.29	.25
893611	TI	CD4017BE★	DIP-16	Decade counter/divider .....	.39	.35	.25
12773	◆	CD4018	DIP-16	Presettable divide-by-N counter .....	.49	.45	.35
12802	◆	CD4020*	DIP-16	14-stage ripple carry binary counter .....	.39	.35	.29
12829	◆	CD4021	DIP-16	8-stage static shift register .....	.29	.25	.22
12845	◆	CD4023*	DIP-14	Triple 3-input NAND gates .....	.29	.25	.22
12853	◆	CD4024*	DIP-14	7-stage ripple carry binary counter .....	.29	.25	.22
353560	◆	CD4026	DIP-16	Decade counter/divider .....	.55	.45	.39
12888	◆	CD4027*	DIP-16	Dual J-K master/slave flip-flop .....	.35	.29	.25
12909	◆	CD4028	DIP-16	BCD-to-decimal decoder .....	.29	.25	.22
12925	◆	CD4029	DIP-16	Preset up/down binary counter .....	.35	.29	.25

\* 10 pcs./\*\* 20 pcs. in 4000 series IC cabinet kit, right

## 4000 Series (Continued)

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
12950	◆	CD4040*	DIP-16	12-stage binary/ripple counter .....	\$.35	\$.29	\$.25
12992	◆	CD4043	DIP-16	Tri-state quad NOR R/S latch .....	.39	.35	.29
13004	◆	CD4044	DIP-16	Quad NAND R/S latch .....	.39	.35	.29
13012	◆	CD4046*	DIP-16	Micropower phase lock loop .....	.39	.35	.29
13039	◆	CD4047	DIP-14	Monostable/astable multivibrator ..	.35	.29	.25
894331	TI	CD4047BE★	DIP-14	Monostable/astable multivibrator ..	.49	.45	.39
13055	◆	CD4049**	DIP-16	Hex inverting buffer/converter .....	.29	.25	.22
13071	◆	CD4050*	DIP-16	Hex non-inverting buffer/converter ..	.29	.25	.22
13098	◆	CD4051*	DIP-16	Single 8-channel analog multiplexer ..	.35	.29	.25
894391	TI	CD4051BE★	DIP-16	Single 8-channel analog multiplexer ..	.39	.35	.29
13119	◆	CD4052	DIP-16	Dual 4-channel analog multiplexer ..	.35	.29	.25
13127	◆	CD4053	DIP-16	Triple 2-channel analog multiplexer ..	.35	.29	.25
818259	TI	CD4059AE★	DIP-24	Programmable divide-by-N counter ..	1.75	1.49	1.25
13151	◆	CD4060	DIP-16	14-stage ripple carry binary counter ..	.29	.25	.22
13186	◆	CD4066**	DIP-14	Quad bilateral switch .....	.35	.29	.25
13215	◆	CD4067	DIP-24	Single 16-channel analog multiplexer ..	1.09	.99	.89
13231	◆	CD4069**+	DIP-14	Hex inverters (74C04) .....	.29	.25	.22
13258	◆	CD4070*	DIP-14	Quad 2-input exclusive OR gate ..	.35	.29	.25
13274	◆	CD4071*	DIP-14	Quad 2-input OR gate .....	.29	.25	.22
676086	◆	CD4073	DIP-14	Triple 3-input AND gate .....	.29	.25	.22
676094	◆	CD4075	DIP-14	Triple 3-input OR gate .....	.39	.35	.29
676107	◆	CD4077	DIP-14	Quad exclusive NOR gate .....	.35	.29	.25
676115	◆	CD4078	DIP-14	8-input NOR/OR gate .....	.35	.29	.25
13354	◆	CD4081*	DIP-14	Quad 2-input AND gate .....	.29	.25	.22
676123	◆	CD4082	DIP-14	Dual 4-input AND gate .....	.39	.35	.29
13400	◆	CD4093*	DIP-14	Quad 2-input NAND schmitt trigger ..	.29	.25	.22
818902	TI	CD4093BOM9Q1	SOIC-14	Quad 2-input NAND schmitt trigger ..	.35	.25	.19
870807	FSC	CD4093BCN★	DIP-14	Quad 2-input NAND schmitt trigger ..	.59	.49	.45
818873	TI	CD4093BE★	DIP-14	CMOS 2-input NAND Gate .....	.45	.39	.35
13426	◆	CD4094	DIP-16	8-bit shift register with latch .....	.35	.29	.25
13485	◆	CD4510	DIP-16	BCD presettable up/down counter ..	.39	.35	.29
13493	◆	CD4511*	DIP-16	BCD-to-7 segment latch/decoder/driver ..	.35	.29	.25
895377	TI	CD4511BE★	DIP-16	BCD-to-7 segment latch/decoder/driver ..	.39	.35	.29
13522	◆	CD4514	DIP-24	4-bit latch/line decoder .....	.99	.89	.69
13549	◆	CD4516	DIP-16	Binary up/down counter .....	.45	.35	.29
13565	◆	CD4518	DIP-16	Dual BCD up counter .....	.39	.29	.25
13581	◆	CD4520	DIP-16	Dual binary up counter .....	.35	.29	.25
13602	◆	CD4526	DIP-16	Binary divide-by-N counter .....	.39	.29	.19
13611	◆	CD4528	DIP-16	Dual monostable multivibrator ..	.45	.39	.35
13653	◆	CD4538*	DIP-16	Dual monostable multivibrator ..	.45	.35	.29
13688	◆	CD4541	DIP-14	Programmable timer .....	.29	.25	.15
13696	◆	CD4543*	DIP-16	BCD to 7-segment decoder driver ..	.45	.35	.29
947982	FSS	MC14553BCPG★	DIP-16	3-digit BCD decoder .....	2.09	1.95	1.75
13709	◆	CD4553	DIP-16	3-digit BCD counter .....	1.75	1.59	1.45
13768	◆	CD4584*	DIP-14	Hex schmitt trigger .....	.35	.29	.25
676473	◆	CD40102	DIP-16	2-decade BCD 8-stage sync down counter ..	.29	.25	.22
44257	◆	CD40106	DIP-14	Hex schmitt trigger .....	.79	.69	.59
785071	FSC	CD40106BCN★	DIP-14	Hex schmitt trigger .....	.49	.45	.35
676502	◆	CD40110	DIP-16	Decade up/down counter .....	1.25	1.05	.85

## 4000 Series CMOS IC Kit

SAVE \$25

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584

20 each: CD4001, CD4011, CD4013, CD4049, CD4066

Part No.	Description	Wt. (lbs.)	1	5
84970	300 pcs. 4000 series CMOS IC kit	6.1	\$79.95	\$69.95
130403	Refill for 84970 (300 pcs.)	1.4	64.95	59.95

\* FSC = Fairchild Semiconductor | FSS = Free Scale Semiconductor | TI = Texas Instruments | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).



## 5000 Series & Clock Chips

\*Web Code: RAE

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
32803	◆	TCM5089N	DIP-16	Touch tone generator .....	\$4.95	\$4.49
26091	◆	MM5321N	DIP-16	TV camera synchronous generator .....	4.95	3.95
26171	◆	MM5450N	DIP-40	LED display driver .....	3.95	3.75
27422	◆	LM555CN**	DIP-8	Timer .....	.25	.22
126797	◆	LMC555CN*	DIP-8	CMOS timer .....	.79	.69
24328	◆	LM556N*	DIP-14	Dual timer .....	.29	.25
95531	◆	RTC72421B 	DIP-18	Real time clock .....	8.95	7.95
25101	◆	MC146818★	DIP-24	Real time clock with RAM .....	8.95	7.95
10567	AMD	AM9513APC★	DIP-40	Real time clock .....	34.95	31.95

\*10 pcs./\*\*20 pcs. in Linear series IC cabinet kit, pg 16

★ Pull = Extra Savings

\*Delay Lines Available Online — Enter Web Code EEU

\*Quick Switches Available Online — Enter Web Code FAH

\*EconoResets Available Online — Enter Web Code YFE

## 6500 Series

Please Note: Manufacturer may vary

\*Web Code: NAG

Part No.	Product No.	Pkg.	Description	1	10
43191	6502★	DIP-40	CPU, 8-bit, 1MHz .....	\$5.95	\$5.49
43166	65C02★	DIP-40	CPU, 8-bit, 1MHz .....	5.95	5.49
43254	6522★	DIP-40	Versatile interface adapter, 1MHz .....	5.95	5.49
43297	6532★	DIP-40	RAM I/O timer, 1MHz .....	7.95	7.25
43318	6551★	DIP-28	Asynch. comm. interface adapter, 1MHz .....	3.95	3.75

★ Pull = Extra Savings



## 6800/68000 CMOS

\*Web Code: SBP

Part No.	Mfr. Part No.	Pkg.	Description	1	10
248604	MC68HC11E1CFN3	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz .....	\$9.95	\$8.95
248583	MC68HC11F1CFN3	PLCC-68	MCU, 8-bit, 30 I/O, 3MHz .....	10.95	9.95
108919	MC68HC705C8P	DIP-40	MCU, 8-bit, 24 I/O, 4MHz .....	8.95	7.95
132484	MC68HC705C8S	DIP-40	MCU, 8-bit, 24 I/O, 4MHz .....	15.95	11.95
132530	MC68HC705J1ACP	DIP-20	MCU, 8-bit, 14 I/O, 4MHz .....	3.75	3.49
248575	MC68HC711E9CFN2	PLCC-52	MCU, 8-bit, 38 I/O, 2MHz .....	18.95	16.95
323213	MC68HC908GR8CP	DIP-28	MCU, 8-bit, 21 I/O, 8MHz .....	5.95	4.49

## 6800/68000 N-MOS

\*Web Code: PAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
43481	◆	6800★	DIP-40	CPU, 8-bit, 5V, 2MHz .....	\$5.95	\$4.95
43502	◆	6802★	DIP-40	CPU, 8-bit, 5V, 1MHz .....	9.95	8.95
43529	◆	6803★	DIP-40	CPU, 8-bit, 5V, 1MHz .....	6.95	5.95
43537	◆	6808★	DIP-40	CPU, 8-bit, 7V, 1MHz .....	7.95	7.25
43545	◆	6809E★	DIP-40	CPU, 8-bit, 7V, 1MHz .....	3.95	3.49
320590	◆	68B09E★	DIP-40	CPU, 8-bit, 7V, 2MHz .....	4.95	4.49
43561	◆	6810★	DIP-24	SRAM, 1K-bit, 5V, 1MHz .....	2.95	2.75
43596	◆	6821★	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz .....	3.95	3.49
43414	◆	68B21★	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz .....	4.95	4.49
43617	◆	6840★	DIP-28	Programmable timer, 16-bit, 5V, 6MHz .....	2.95	2.75
43633	◆	6850★	DIP-24	Asynch. comm. int. adptr, 8-bit, 7V, 1MHz .....	4.49	3.95
25304	◆	MC68000L8★	DIP-64	CPU, 16-bit, 7V, 8MHz .....	8.95	7.95
25291	◆	MC68000L10★	DIP-64	CPU, 16-bit, 7V, 10MHz .....	9.95	8.95
25355	◆	MC68701★	DIP-40	MCU, 8-bit, 29 I/O, 2MHz .....	14.95	12.95
25363	MOT	MC68705P3S★	DIP-28	MCU, 8-bit, 20 I/O, 4MHz .....	24.95	22.95
25371	MOT	MC68705U3S★	DIP-40	MCU, 8-bit, 20 I/O, 4MHz .....	24.95	22.95

★ Pull = Extra Savings

## 8000 Series

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Description	1	10	100
51844	8031★	DIP-40	MCU, 8-bit, 32 I/O, 8MHz .....	\$3.49	\$3.25	\$2.95
51676	80C31★	DIP-40	MCU, 8-bit, 32 I/O, 24MHz, CMOS .....	3.75	3.45	2.95

★ Pull = Extra Savings

## 8000 Series (Continued)

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Description	1	10	100
876096	P80C31BH-1	DIP-40	MCU, 8-bit, 32 I/O, 16MHz, CMOS .....	\$3.75	\$3.45	\$2.95
102197	8032★	DIP-40	CPU, 8-bit, 32 I/O, 12MHz .....	3.95	3.49	2.95
108804	80C32-1★	DIP-40	MCU, 8-bit, 32 I/O, 12MHz, CMOS .....	4.25	3.75	3.49
51861	8035★	DIP-40	CPU, 8-bit, 27 I/O, 11MHz .....	3.95	3.49	2.95
51959	8039★	DIP-40	CPU, 8-bit, 27 I/O, 6MHz .....	3.95	3.49	2.95
51692	80C39★	DIP-40	MCU, 8-bit, 27 I/O, 11MHz, CMOS .....	4.25	3.75	3.25
51983	8049★*	DIP-40	CPU, 8-bit, 27 I/O, 6MHz .....	2.95	2.75	2.49
51991	8051AP★**	DIP-40	MCU, 8-bit, 27 I/O, 11MHz .....	4.95	4.49	3.95
125647	80C52BASIC	DIP-40	MCU, 8-bit, 32 I/O, 12MHz, CMOS .....	33.95	31.95	29.95
52046	8080A★	DIP-40	CPU, 8-bit, 32 I/O, 1MHz .....	5.49	4.95	4.25
52062	8085AH★	DIP-40	CPU, 8-bit, 16 I/O, 3MHz .....	4.95	4.49	3.25
52071	8085AH-2★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz .....	5.49	4.95	3.95
51705	80C85A-2★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz, CMOS .....	5.95	5.49	4.95
52100	8086-2★	DIP-40	CPU, 8-bit, 32 I/O, 8MHz .....	1.95	1.75	1.49
52142	8088★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz .....	2.95	2.75	2.49
52169	8088-2★	DIP-40	CPU, 8-bit, 16 I/O, 8MHz .....	3.95	3.49	2.95
34358	UPD70108-8★	DIP-40	CPU, 8-bit, 16 I/O, 8MHz .....	9.98	8.95	6.95
52290	8155★	DIP-40	I/O port timer, 2K-bit, 3MHz .....	3.95	3.49	2.95
52302	8155-2★	DIP-40	Static MOS RAM, 2K-bit, 3 I/O, 5MHz .....	4.95	4.49	3.25
52193	81C55★	DIP-40	I/O port timer, 2K-bit, 3MHz, CMOS .....	4.95	4.49	3.95
52468	8212★	DIP-24	I/O port timer, 8-bit, 3MHz .....	5.95	5.49	4.95
52484	8216	DIP-16	Bi-directional bus driver (non-invert.) .....	3.95	3.49	2.95
52492	8224★	DIP-16	Clock generator/driver .....	3.95	3.49	2.95
52513	8228★	DIP-28	System controller/bus driver .....	3.95	3.75	3.49
52581	8243★	DIP-24	I/O expander, 5V, MIL. temp .....	5.49	4.95	3.25
52644	8251♦	DIP-28	USART .....	2.75	2.49	2.25
52652	8251A★	DIP-28	Prog. communications interface .....	3.95	3.49	2.95
52370	82C51A★	DIP-28	USART, 3V to 6V, CMOS .....	3.95	3.49	2.95
52679	8253★	DIP-24	Prog. interval timer, 2MHz .....	1.95	1.49	1.25
52687	8253-5★	DIP-24	Prog. interval timer, 5MHz .....	3.49	3.25	2.75
52388	82C53-5★	DIP-24	Prog. interval timer, 8MHz, CMOS .....	2.95	2.25	1.75
52708	8254★	DIP-24	Prog. interval timer, 8MHz .....	4.49	3.95	3.49
52716	8254-2★	DIP-24	Prog. interval timer, 10MHz .....	4.95	4.49	3.95
52396	82C54★	DIP-24	Prog. interval timer, 8MHz, CMOS .....	4.95	4.49	3.95
52409	82C54-2★	DIP-24	Prog. interval timer, 10MHz, CMOS .....	4.95	4.49	3.95
52724	8255★	DIP-40	CPU peripheral, 2MHz .....	4.49	3.95	3.49
52732	8255A-5★	DIP-40	CPU peripheral, 5MHz .....	4.75	4.25	3.75
291805	8255AC-5♦	DIP-40	CPU peripheral, 4MHz .....	4.75	4.25	3.75
52417	82C55A★	DIP-40	CPU peripheral, 8MHz, CMOS .....	4.95	4.49	3.95
52425	82C55A-5★	DIP-40	CPU peripheral, 5MHz, CMOS .....	4.95	4.49	3.95
52759	8256★	DIP-40	Multi func. uproc. support controller .....	17.95	15.95	13.95
52775	8259★	DIP-28	Prog. interrupt controller .....	1.95	1.75	1.49
52839	8279★	DIP-40	CPU peripheral, 5MHz .....	10.95	9.95	7.95
52847	8279-5★	DIP-40	CPU peripheral, 5MHz .....	12.95	11.95	10.95
52855	8282★	DIP-20	Octal latch bus driver .....	4.95	4.49	3.95
52871	8284A★	DIP-18	Clock generator/driver, 8MHz .....	4.95	4.49	3.95
2082020	N8284A	DIP-18	Up/down counter .....	2.95	1.95	1.49
52898	8286★	DIP-20	Octal bus transceiver .....	4.95	4.49	3.95
52901	8287★	DIP-20	Octal bus transceiver .....	9.95	8.95	7.95
52919	8288	DIP-20	Bus controller (UPD71088) .....	1.95	1.75	1.49
53022	8748♦	DIP-40	CPU, 8-bit, 27 I/O, 11MHz .....	10.95	9.95	8.95
53031	8748H♦	DIP-40	CPU, 8-bit, 27 I/O, 11MHz .....	12.95	11.95	8.95
53057	8749H♦	DIP-40	CPU, 8-bit, 27 I/O, 11MHz .....	15.95	14.95	12.95
53073	8751	DIP-40	MCU, 8-bit, 32 I/O, 8MHz .....	12.95	10.95	9.95
53081	8751H♦	DIP-40	MCU, 8-bit, 32 I/O, 12MHz .....	15.95	14.95	12.95
52978	87C51★	DIP-40	MCU, 8-bit, 32 I/O, 33MHz, CMOS .....	15.95	14.95	12.95
196120	P87C51	DIP-40	MCU, 8-bit, 32 I/O, 24MHz, CMOS .....	4.95	4.49	3.95
53090	8755	DIP-40	EPROM with I/O .....	6.95	4.95	3.95

\* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

\*\* Tie pin 31 low to bypass the internal ROM ★ Pull = Extra Savings ♦ Refreshed = Backed by Jameco

\* AMD = Advanced Micro | MOT = Motorola | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



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# Z80, UARTs & EPROMs

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## Z80 MPUs

Please Note: Manufacturer may vary

**★ Web Code: JAF**

Part No.	Product No.	Pkg.	Description	1	10
35561	Z80★	DIP-40	2.5MHz CPU (MK3880N/780C)	\$1.95	\$1.75
35596	Z80A★	DIP-40	4MHz CPU (MK3880N-4/780C-1)	2.05	1.85
35609	Z80A-CTC★	DIP-28	4MHz counter timer circuit (MK3882-4)	2.49	2.25
35625	Z80A-DART★	DIP-40	4MHz dual asynchronous receiver/trans	2.49	2.25
35641	Z80A-PIO★	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4)	2.05	1.85
35668	Z80A-SIO/0★	DIP-40	4MHz serial I/O, TxCB & RxCB bond. (MK3884-4)	2.49	2.25
35705	Z80B★	DIP-40	6MHz CPU (MK3880N-6)	2.49	2.25
35781	Z84C00-4★	DIP-40	4MHz CPU (Z84C0004PEC) CMOS	4.49	3.95
35799	Z8530★	DIP-40	2MHz serial communications controller	.75	.49
280479	Z8518020PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	9.95	8.95
280516	Z84C0008PEC★	DIP-40	Z80 CPU with 3 mode int., 16 regs.	3.95	3.75
61786	Z85C3008PS★	DIP-40	Serial communications controller	4.49	3.95
281308	Z85C3016PSC	DIP-40	Serial communications controller	7.95	6.95
280436	Z8018008PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	4.95	4.49
280452	Z8018010PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	6.95	5.75
281324	Z8523016VSC	PLCC-44	Enhanced serial communications controller	11.95	10.95

★ Pull = Extra Savings

## UARTs

Please Note: Manufacturer may vary

**★ Web Code: MAG**

Part No.	Product No.	Pkg.	Description	1	10
43158	6402★	DIP-40	5V CMOS	\$6.95	\$5.95
27570	NS16C450N★	DIP-40	Asynch. comm. element, 5V	2.95	2.75
27596	NS16550AN★	DIP-40	Asynch. comm. element, 5V	3.95	2.95
288809	TL16C550CN	DIP-40	1-channel w/ 16-byte FIFO, 5V	3.95	3.49
288841	TL16C554FN	PLCC-68	4-channel w/ 16-byte FIFO, 5V	8.95	6.95
288876	TL16C750FN#R	PLCC-44	1-channel w/ 64-byte FIFO, 5V	4.95	4.49
288905	TL16C754BFN#R	PLCC-68	4-channel w/ 64-byte FIFO, 5V	11.95	9.95

★ Pull = Extra Savings

## EPROMs

**★ Web Code: XAF**

Part No.	*Mfr.	Product No.	Pkg.†	Config.	Description	1	10	100
39909	◆	2708#D	DIP-24	1k x 8	450ns, 5V	\$3.95	\$3.75	\$3.49
33611	◆	TMS2716#D	DIP-24	2k x 8	450ns, 5V	2.95	2.75	2.49
40002	◆	2716#D	DIP-24	2k x 8	450ns, 5V	3.95	3.75	3.49
308662	◆	2716A-2	DIP-24	2k x 8	200ns, 5V	3.95	3.75	3.49
40011	◆	2716-1#D	DIP-24	2k x 8	350ns, 5V	4.49	3.95	3.75
33591	◆	TMS2532#D	DIP-24	4k x 8	450ns, 5V	3.95	3.75	3.49
40096	◆	2732#D	DIP-24	4k x 8	450ns, 5V	5.95	5.49	3.95
40133	◆	2732A-45#D	DIP-24	4k x 8	450ns, 5V	3.95	3.75	3.49
40125	◆	2732A-25#D	DIP-24	4k x 8	250ns, 5V	4.95	4.49	3.95
114876	◆	2732B#D	DIP-24	4k x 8	450ns, 5V	3.95	3.75	3.49
40109	◆	2732A-20#D	DIP-24	4k x 8	200ns, 5V	5.49	4.95	4.49
266001	◆	27C32-150#D	DIP-24	4k x 8	150ns, 5V	5.95	5.49	4.95
40205	◆	2764-25#D	DIP-28	8k x 8	250ns, 5V	3.95	3.75	3.49
40192	◆	2764-20#D	DIP-28	8k x 8	200ns, 5V	4.25	3.95	3.75
40248	◆	2764A-25#D	DIP-28	8k x 8	250ns, 5V	3.95	3.75	3.49
40230	◆	2764A-20#D	DIP-28	8k x 8	200ns, 5V	4.25	3.95	3.75
698322	ST	M27C64A-15F1#R	FDIP-28	8k x 8	150ns, 5V (±10%)	5.95	5.49	5.25
39845	◆	27C64-25#D	DIP-28	8k x 8	250ns, 5V	3.49	3.25	2.95
74608	◆	27C64-20#D	DIP-28	8k x 8	200ns, 5V	3.75	3.49	3.25
39829	◆	27C64-15#D	DIP-28	8k x 8	150ns, 5V	4.25	3.95	3.75
105304	◆	27C64-12#D	DIP-28	8k x 8	120ns, 5V	4.75	4.49	3.95
266036	◆	27C64-100	DIP-28	8k x 8	100ns, 5V	4.95	4.55	4.05
39933	◆	27128-25#D	DIP-28	16k x 8	250ns, 5V	2.95	2.25	1.75
39984	◆	27128A-25#D	DIP-28	16k x 8	250ns, 5V	3.95	3.75	3.49
39968	◆	27128A-20#D	DIP-28	16k x 8	200ns, 5V	4.25	3.95	3.55
39950	◆	27128A-15#D	DIP-28	16k x 8	150ns, 5V	4.49	4.25	3.95
39685	◆	27C128-25#D	DIP-28	16k x 8	250ns, 5V	3.75	3.49	3.25
101101	◆	27C128-20#D	DIP-28	16k x 8	200ns, 5V	3.95	3.75	3.49
39677	◆	27C128-15#D	DIP-28	16k x 8	150ns, 5V	4.25	3.95	3.75
87935	◆	27C128-12#D	DIP-28	16k x 8	120ns, 5V	4.49	4.25	3.95

◆ Refurbished = Backed by Jameco

† FDIP = Ceramic frit seal

## EPROMs (Continued)

**★ Web Code: XAF**

Part No.	*Mfr.	Product No.	Pkg.†	Config.	Description	1	10	100
266061	◆	27C128-10	DIP-28	16k x 8	100ns, 5V	\$4.75	\$4.49	\$4.25
149665	◆	27C128-70	DIP-28	16k x 8	70ns, 5V	4.95	4.75	4.49
40045	◆	27256-20#D	DIP-28	32k x 8	200ns, 5V	2.55	2.25	1.95
40037	◆	27256-15#D	DIP-28	32k x 8	150ns, 5V	3.49	3.25	2.95
39731	◆	27C256-25#D	DIP-28	32k x 8	250ns, 5V	2.35	2.15	1.85
39722	◆	27C256-20#D	DIP-28	32k x 8	200ns, 5V	2.55	2.25	1.95
39714	◆	27C256-15#D	DIP-28	32k x 8	150ns, 5V	2.75	2.49	2.25
698111	ST	M27C256B-15F1#R	FDIP-28	32k x 8	150ns, 5V	3.95	3.49	3.25
65904	◆	27C256-12#D	DIP-28	32k x 8	120ns, 5V	3.49	2.95	2.75
698091	ST	M27C256B-12F1#R	FDIP-28	32k x 8	120ns, 5V, C-temp	4.25	3.75	3.49
698103	ST	M27C256B-12F6#R	FDIP-28	32k x 8	120ns, 5V, I-temp	3.95	3.49	3.25
112740	◆	27C256-10#D	DIP-28	32k x 8	100ns, 5V	3.75	3.25	2.95
698082	ST	M27C256B-10F1#R	FDIP-28	32k x 8	100ns, 5V	4.49	3.95	3.59
104076	◆	27C256-70#D	DIP-28	32k x 8	70ns, 5V	4.75	4.49	3.95
266079	◆	27C256-55	DIP-28	32k x 8	55ns, 5V	4.95	4.75	4.49
40168	◆	27512-25#D	DIP-28	64k x 8	250ns, 5V	2.25	1.95	1.75
40150	◆	27512-20#D	DIP-28	64k x 8	200ns, 5V	2.49	2.25	1.95
39802	◆	27C512-25#D	DIP-28	64k x 8	250ns, 5V	2.25	1.95	1.75
39790	◆	27C512-20#D	DIP-28	64k x 8	200ns, 5V	2.49	2.25	1.95
39781	◆	27C512-15#D	DIP-28	64k x 8	150ns, 5V	2.75	2.49	2.25
39773	◆	27C512-12#D	DIP-28	64k x 8	120ns, 5V	2.95	2.75	2.49
698226	ST	M27C512-12F1#R	FDIP-28	64k x 8	120ns, 5V	3.49	3.25	3.05
131959	◆	27C512-10#D	DIP-28	64k x 8	100ns, 5V	3.25	2.95	2.75
175206	◆	27C512-90#D	DIP-28	64k x 8	90ns, 5V	3.49	3.25	2.95
203625	◆	27C512-70	DIP-28	64k x 8	70ns, 5V	3.95	3.75	3.49
203617	◆	27C512-45	DIP-28	64k x 8	45ns, 5V	4.25	3.95	3.75
203641	◆	27C1024-12	DIP-40	64k x 16	120ns, 5V	4.95	4.75	4.49
118148	◆	27C1024-15	DIP-40	64k x 16	100ns, 5V	4.49	4.25	3.95
39669	◆	27C010-20#D	DIP-32	128k x 8	200ns, 5V	3.25	2.95	2.49
39651	◆	27C010-15#D	DIP-32	128k x 8	150ns, 5V	3.49	3.25	2.95
697987	ST	M27C1001-15F1#R	FDIP-32	128k x 8	150ns, 5V	4.95	4.75	4.49
74624	◆	27C010-12#D	DIP-32	128k x 8	120ns, 5V	2.39	2.25	1.45
697961	ST	M27C1001-12F1#R	FDIP-32	128k x 8	120ns, 5V	4.49	4.25	3.95
79231	◆	27C010-10#D	DIP-32	128k x 8	100ns, 5V	3.95	3.75	3.49
697944	ST	M27C1001-10F1#R	FDIP-32	128k x 8	100ns, 5V	4.75	4.49	4.25
137699	◆	27C010-80#D	DIP-32	128k x 8	80ns, 5V	4.49	4.25	3.55
146149	◆	27C010-70#D	DIP-32	128k x 8	70ns, 5V	4.25	3.95	3.75
698007	ST	M27C1001-70F1#R	FDIP-32	128k x 8	70ns, 5V	4.75	4.49	4.25
266095	◆	27C010-55	DIP-32	128k x 8	55ns, 5V	4.95	4.75	4.49
65681	◆	27C020-20#D	DIP-32	256k x 8	200ns, 5V	3.49	2.95	2.49
65699	◆	27C020-15#D	DIP-32	256k x 8	120ns, 5V	3.75	3.49	3.25
78852	◆	27C020-12#D	DIP-32	256k x 8	100ns, 5V	3.95	3.75	3.49
698031	ST	M27C2001-12F1#R	FDIP-32	256k x 8	120ns, 5V	5.95	5.49	4.95
156267	◆	27C020-10	DIP-32	256k x 8	100ns, 5V	4.25	3.95	3.75
698023	ST	M27C2001-10F1#R	FDIP-32	256k x 8	100ns, 5V	5.95	5.49	4.95
203650	◆	27C020-80	DIP-32	256k x 8	80ns, 5V	4.49	4.25	3.75
127933	◆	27C4096-12	DIP-40	256k x 16	120ns, 5V	5.95	5.49	4.95
698197	ST	M27C4002-10F1#R	FDIP-40	256k x 16	100ns, 5V	7.49	6.75	6.25
85462	◆	27C040-15#D	DIP-32	512k x 8	150ns, 5V	4.49	4.25	3.95
698171	ST	M27C4001-15F1#R	FDIP-28	512k x 8	150ns, 5V	6.19	5.75	5.49
102293	◆	27C040-12#D	DIP-32	512k x 8	120ns, 5V	4.95	4.75	4.49
698154	ST	M27C4001-12F1#R	FDIP-28	512k x 8	120ns, 5V	6.19	5.75	5.49
111780	◆	27C040-10#D	DIP-32	512k x 8	100ns, 5V	4.95	4.75	4.49
698146	ST	M27C4001-10F1#R	FDIP-28	512k x 8	100ns, 5V	7.95	6.95	6.25
203676	◆	27C040-80	DIP-32</					



## OTP/PROMs

\* Web Code: WAG

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10	100
48717	◆	74S288	DIP-16	32 x 8	256-bit, 5V, 25ns, PROM	\$9.95	\$8.95	\$7.95
27844	◆	N82S23	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	5.95	4.95	3.95
27764	◆	N82S123	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	11.95	10.95	9.95
48696	◆	74S287	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	10.95	9.95	7.95
48805	◆	74S387	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	3.95	3.75	3.49
27772	◆	N82S126	DIP-16	256 x 4	1-kbit, 5V, 50ns, PROM	7.95	6.95	5.95
27781	◆	N82S129	DIP-16	256 x 4	1-kbit, 7V, 50ns, PROM	10.95	9.95	8.95
27799	◆	N82S131	DIP-16	512 x 4	2-kbit, 7V, 50ns, PROM	7.95	6.95	5.95
27801	◆	N82S137	DIP-18	1k x 4	4-kbit, 7V, 60ns, PROM	5.95	4.95	3.95
27810	◆	N82S181	DIP-24	1k x 8	8-kbit, 7V, 70ns, PROM	8.95	7.95	6.95
27828	◆	N82S185	DIP-18	2k x 4	8-kbit, 7V, 100ns, PROM	3.95	2.95	1.95
27836	◆	N82S191	DIP-24	2k x 8	16-kbit, 7V, 35ns, PROM	6.95	6.49	4.95
394978	ATM	AT27C256R-45J1	PLCC-32	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	2.75	2.49	2.25
394986	ATM	AT27C256R-45PU	DIP-28	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	1.25	1.15	1.05
395081	ATM	AT27C512R-70PU	DIP-28	64k x 8	512-kbit, 5V, 70ns, I-temp., OTP	1.35	1.19	1.09
203692	◆	27C512-12	DIP-28	64k x 8	512-kbit, 5V, 100ns, OTP	1.35	1.19	1.09
394708	ATM	AT27C010-70PU	DIP-32	128k x 8	1-Mbit, 5V, 70ns, I-temp., OTP	1.95	1.75	1.49
267303	◆	27C080-10	PLCC-32	1M x 8	8-Mbit, 5V, 100ns, OTP	4.95	3.95	3.49
267215	◆	27C080-15	PLCC-32	1M x 8	8-Mbit, 5V, 150ns, OTP	3.95	2.49	2.25

## EEPROMs

Please Note: Manufacturer may vary

\* Web Code: GAM

Part No.	Product No.	Pkg.	Config.	* Order in multiples of 10		
				1	10	100
102058	93C46	DIP-8	64 x 16	3-wire serial, 2.5V	\$0.25	\$0.22
276955	93C46	SOIC-8	64 x 16	3-wire serial, 2.5V	*	.15
108855	93C56	DIP-8	128 x 16	3-wire serial, 2.5V	.25	.22
108839	24C02P	DIP-8	256 x 8	2-wire serial, 5V	.29	.25
200598	93C66	DIP-8	256 x 16	3-wire serial, 2.5V	.35	.29
108847	24C04P	DIP-8	512 x 8	2-wire serial, 2.5V	.45	.39
200547	24C08-10	DIP-8	1k x 8	2-wire serial, 2.5V	.45	.39
200555	24C16-10	DIP-8	2k x 8	2-wire serial, 5V	.45	.39
276699	28C16	SOIC-24	2k x 8	Page parallel, 5V	2.49	2.25
74691	28C16A-25	DIP-24	2k x 8	Page parallel, 5V	3.95	3.49
276701	28C17	DIP-28	2k x 8	Page parallel, 5V	3.95	3.49
40416	2817A-25	DIP-28	2k x 8	Page parallel, 5V	4.95	4.49
276752	28C64	SOIC-28	8k x 8	Page parallel, 5V	1.95	1.25
74827	28C64A-25	DIP-28	8k x 8	Page parallel, 5V	3.75	3.49
40475	2865A	DIP-28	8k x 8	5V with latches	5.95	4.95
276816	28C256-15SC	SOIC-28	32k x 8	Page parallel, 5V	5.49	4.49
200580	24C256-10	DIP-8	32k x 8	2-wire serial, 2.5V	1.49	1.35
74878	28C256-25	DIP-28	32k x 8	Page parallel, 5V	5.95	4.95
74843	28C256-15	DIP-28	32k x 8	Page parallel, 5V	5.49	5.25
1474101	M9526-WMN6TP	SO-8	32k x 8	2.5-5.5V, 256-kbit serial spi bus	1.49	1.25
276832	24C512	DIP-8	64k x 8	2-wire serial, 2.5V	1.95	1.75
1010868	AT24C512BN-SH-B	SOIC-8	64k x 8	2-wire serial, 1.8-3.6V	1.75	1.45
276912	24C1024	DIP-8	128k x 8	2-wire serial, 2.7-5V	5.95	5.49
395372	AT28LV010-20TC	TSSOP-32	128k x 8	Page parallel, 3.3V	29.95	26.95

\* Blue Part No. = Limited Quantity Available

## IC Accessories

\* Order in multiples of 10

Part No.	Product No.	Description	1	10
13864	CF2	Conductive foam (12" x 24" x .25") hard black	\$11.95	\$10.95
29516	RIC20	.300" anti-static rail for 8, 14, 16, 18, 20 & 22-pin ICs	.25	.22
29524	RIC220	.600" anti-static rail for 24, 28, 36 & 40-pin ICs	.29	.25
29583	RRS	Storage tube rubber stopper	*	.07

Additional Anti-Static Products, IC Accessories and Tools see page 164

\* I<sup>C</sup> SMBus Available Online — Enter Web Code SAS

## Static RAM

\* Web Code: WAF

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10
38931	◆	2111-1	DIP-18	256 x 4	1-Kbit, 5V, 500ns	\$1.95	\$1.75
42198	◆	5101★	DIP-22	256 x 4	1-Kbit, 5V, 450ns	7.95	6.95
38957	◆	2114N	DIP-18	1k x 4	4-Kbit, 5V, 450ns	1.95	1.75
43238	◆	6514	DIP-18	1k x 4	4-Kbit, 5V, 300ns	2.95	2.75
38973	◆	2114N-2	DIP-18	1k x 4	4-Kbit, 5V, 200ns	2.19	1.95
38981	◆	2114N-2L	DIP-18	1k x 4	4-Kbit, 5V, 450ns, LP	2.35	2.19
38738	◆	2016-12	DIP-24	2k x 8	16-Kbit, 5V, 120ns	1.25	1.15
38746	◆	2016-20★	DIP-24	2k x 8	16-Kbit, 5V, 200ns	1.15	1.05
114260	DAL	DS1220Y-150	DIP-24	2k x 8	16-Kbit, 5V, 150ns, NV	10.95	9.95
25911	◆	MK48Z02B-15	DIP-24	2k x 8	16-Kbit, 5V, 150ns	7.95	6.95
42809	◆	6116P-3★	DIP-24	2k x 8	16-Kbit, 5V, 150ns	1.75	1.55
42753	◆	6116LP-3★	DIP-24	2k x 8	16-Kbit, 5V, 150ns, LP	1.85	1.65
42788	◆	6116P-1★	DIP-24	2k x 8	16-Kbit, 5V, 100ns	1.85	1.65
242676	◆	L6116PC10	DIP-24	2k x 8	16-Kbit, 5V, 100ns	1.49	1.19
42796	◆	6116P-2★	DIP-24	2k x 8	16-Kbit, 5V, 120ns	1.49	1.25
42737	◆	6116LP-1★	DIP-24	2k x 8	16-Kbit, 5V, 100ns, LP	1.95	1.75
242683	CPS	CY7C128A-45	DIP-24	2k x 8	16-Kbit, 5V, 45ns, Asynch.	2.95	2.75
242675	◆	6116-70	DIP-24	2k x 8	16-Kbit, 5V, 70ns	2.25	1.95
392446	◆	CY7C4235V-15ASC	SOIOP-64	2k x 18	36-Kbit, 3.3V, 15ns, Synch.FIFO	14.95	12.95
242333	◆	CY7C185-35	DIP-28	8k x 8	64-Kbit, 5V, 35ns, Asynch.	2.49	2.25
1927473	ALM	AS6C6264-55PCPN	PDIP-28	8k x 8	64 LP, 55ns, 2.7-5.5V, C-temp	3.25	2.95
392294	CPS	CY6264-70SNC	SOIC-28	8k x 8	64-Kbit, 5V, 70ns	1.05	.95
85121	◆	6264LP-70	DIP-28	8k x 8	64-Kbit, 5V, 70ns, LP	3.75	3.49
42884	◆	6264LP-10★	DIP-28	8k x 8	64-Kbit, 5V, 100ns, LP	2.95	2.75
42921	◆	6264P-10★	DIP-28	8k x 8	64-Kbit, 5V, 100ns	2.75	2.49
42892	◆	6264LP-12★	DIP-28	8k x 8	64-Kbit, 5V, 120ns, LP	2.75	2.49
42930	◆	6264P-12★	DIP-28	8k x 8	64-Kbit, 5V, 120ns	2.49	2.25
114278	DAL	DS1225AB-15	DIP-28	8k x 8	64-Kbit, 5V, 150ns, NV	14.95	12.95
114307	DAL	DS1225Y-200	DIP-28	8k x 8	64-Kbit, 5V, 200ns, NV	11.95	10.95
242376	◆	CY7C199P-35	DIP-28	32k x 8	256-Kbit, 5V, 35ns, LP Asynch.	1.95	1.75
242499	DAL	DS1230Y-70	DIP-28	32k x 8	256-Kbit, 4.5V, 70ns, WP	17.95	15.95
177113	DAL	DS1230Y-100	DIP-28	32k x 8	256-Kbit, 5V, 100ns, NV	12.95	11.95
114323	DAL	DS1230Y-150	DIP-28	32k x 8	256-Kbit, 5V, 150ns, NV	11.95	10.95
41970	◆	43256-10L★	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	3.95	3.75
41988	◆	43256-12L★	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	3.75	3.49
75037	◆	UM61M256K-15	DIP-28	32k x 8	256-Kbit, 5V, 15ns	3.95	3.49
82472	◆	62256LP-70	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.75	2.49
391793	CPS	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns	2.95	2.75
391822	CPS	CY62256LL-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.95	2.75
391890	CPS	CY62256LL-70SNC	SOIC-28	32k x 8	256-Kbit, 5V, 70ns, LP	1.75	1.55
42876	◆	62256LP-85	DIP-28	32k x 8	256-Kbit, 5V, 85ns, LP	2.65	2.45
42833	◆	62256LP-10★	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	2.49	2.15
42850	◆	62256LP-12★	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	2.25	2.05
279831	CPS	CY7C199-25VC	SOJ-28	32k x 8	256-Kbit, 5V, 25ns	1.75	1.49
279857	◆	62256S-15	SOJ-28	32k x 8	256-Kbit, 5V, 150ns	1.25	.95
1927799	ALM	AS7C1026B-12JCN	SOJ-44	64k x 16	1M, 12ns, 5V, C-temp	3.49	3.25
1927457	ALM	AS6C1008-55PCPN	PDIP-32	128k x 8	1M, 55ns, 2.7-5.5V, C-temp	3.95	3.75
391831	CPS	CY62128BLL-70ZC	SOIC-32	128k x 8	1-Mbit, 5V, 70ns, LP	2.49	2.25
391996	CPS	CY62128BLL-70ZC	SOIC-32	128k x 8	1-Mbit, 5V, 70ns, LP	2.95	2.75
131810	◆	628128LP-70	DIP-32	128k x 8	1-Mbit, 5V, 85ns, LP	6.95	5.95
103982	◆	628128LP-85★	DIP-32	128k x 8	1-Mbit, 5V, 85ns, LP	4.95	4.49
1927617	ALM	AS6C4008-55PCPN	PDIP-32	512k x 8	4M LP, 55ns, 2.7-5.5V, C-temp	5.95	5.49
242448	◆	BS6L2V4006PIP-55	PDIP-32	512k x 8	4M LP, 55ns, 2.4-5.5V, I-temp	18.95	16.95
157358	◆	628152LP-70	DIP-32	512k x 8	4-Mbit, 5V, 70ns, LP	17.95	15.95
280049	◆	628152S-70	SOP-32	512k x 8	4-Mbit, 5V, 20ns, Asynch.	4.95	4.49
1862446	◆	IS61WV20488BL-10ML	BGA-48	2M x 8	16M, 2.4-3.6V, 10ns	29.25	24.95

★ Pull = Extra Savings

\* ALM = Alliance Memory | ATM = Atmel Semiconductor | CPS = Cypress Semiconductor | DAL = Dallas Semiconductor | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed AboveOrder by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# DRAM, Memory, Dallas, PLDs & Supervisory

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## DRAM

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
41339	4116-15	DIP-16	16k x 1	150ns (MM5290J-1R) .....	\$ .99	\$ .89	\$ .79
41662	4164-150★	DIP-16	64k x 1	150ns (MCM6665-15) .....	.99	.89	.79
41574	41464-10★	DIP-18	64k x 4	100ns (HY53C464S-10) .....	1.69	1.59	1.45
41398	41256-120★	DIP-16	256k x 1	120ns (MB81256-12) .....	.79	.69	.59
42315	514256P-80★	DIP-20	256k x 4	80ns (UPD424256-80) .....	1.49	1.35	1.19
93374	514256P-70★	DIP-20	256k x 4	70ns (TC514256P-70) .....	1.55	1.39	1.25
128688	HM514260AJ7★	SOJ-40	256k x 16	70ns .....	2.95	2.75	2.49
42219	511000P-10	DIP-18	1M x 1	100ns (M5M4C1000-10) .....	1.95	1.49	1.25

★ Pull = Extra Savings

\* SDRAMs Available Online — Enter Web Code RAY

## Legacy Intel® Desktop Processors

Part No.	Description	Speed (MHz)	Package	1	10
183100	Intel Pentium® II processor	400	Slot 1 .....	\$39.95	\$29.95
190060	Intel Pentium® II w/ heat sink	233	Slot 1 .....	25.95	22.95
140054	Intel Pentium MMX® processor★	200	376/PGA .....	14.95	12.95
130841	Intel Pentium® processor	166	296/PGA .....	9.95	8.95

★ Pull = Extra Savings

## Memory Modules

Please Note: Manufacturer may vary

★ Web Code: GAG

Part No.	Product No.	Capacity	Description	Config.	Pins	1	10
148460	8MBX36-60	32MB	60ns SIMM	8M x 36	72 .....	\$19.95	\$17.95
75096	P362000-XX-6	8MB	60ns SIMM	2M x 36	72 .....	8.95	7.95
130729	JEED07208	8MB	60ns SIMM EDO	2M x 32	72 .....	1.25	.95
75133	P361000-XX-6	4MB	60ns SIMM	1M x 36	72 .....	6.95	5.95

## Flash Memory

Please Note: Manufacturer may vary

★ Web Code: KAJ

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
74771	28F010-15	DIP-32	128k x 8	150ns, 5V .....	\$4.95	\$4.35	\$3.95
242587	29F010-120	DIP-32	128k x 8	120ns, 5V .....	2.95	2.75	2.49
242595	29F010-90	DIP-32	128k x 8	90ns, 5V .....	2.95	2.75	2.49
242608	29F010-70	DIP-32	128k x 8	70ns, 5V .....	3.25	2.95	2.75
74835	28F020-15	DIP-32	256k x 8	150ns, 5V .....	6.95	6.25	5.49
242616	29F020-12	DIP-32	256k x 8	120ns, 5V .....	7.95	6.95	5.95
242659	29F040-120	DIP-32	512k x 8	120ns, 5V .....	3.95	3.75	3.49
242667	29F040-90	DIP-32	512k x 8	90ns, 5V .....	4.25	3.95	3.75
321672	M25P80-VMN6	SOIC-8	1M x 8	3V w/ 40MHz SPI bus interf.	2.49	2.25	1.75
1912896	S29GL128N10TF010 TSSOP-56	16M x 8	100ns, 3.6V .....	9.95	7.95	6.95	

\* Boot Block Flash Available Online — Enter Web Code MEH

\* Page Mode Flash Available Online — Enter Web Code BCR



## Flash MCUs

Part No.	Mfr. Part No.	Pkg.	Description	1	10
280268	Z8F1601PM020SC	DIP-40	16kB ROM, 2kB RAM, 31 I/O, A/D .....	\$8.95	\$7.95
280292	Z8F2401PM020SC	DIP-40	24kB ROM, 2kB RAM, 31 I/O, A/D .....	9.95	8.95
280305	Z8F2401VN020SC	PLCC-44	24kB ROM, 2kB RAM, 31 I/O, A/D .....	9.95	8.95
280330	Z8F3201VN020SC	PLCC-44	32kB ROM, 2kB RAM, 31 I/O, A/D .....	8.95	7.95
280348	Z8F3202VS020SC	PLCC-68	32kB ROM, 2kB RAM, 46 I/O, A/D .....	8.95	7.95
280356	Z8F4801PM020SC	DIP-40	48kB ROM, 4kB RAM, 31 I/O, A/D .....	9.95	8.95
280364	Z8F4801VN020SC	PLCC-44	48kB ROM, 4kB RAM, 31 I/O, A/D .....	9.95	8.95
280372	Z8F4802VS020SC	PLCC-68	48kB ROM, 4kB RAM, 46 I/O, A/D .....	9.95	8.95

## MAXIM Supervisory

★ Web Code: SCT

Part No.	Mfr. Part No.	Pkg.	Description	1	10
884897	MAX691ACPE	DIP-16	μP supervisory circuit (C-temp) .....	\$4.95	\$4.15

\* CPLDs and FPGAs Available Online — Enter Web Code SAZ

\* ANA = Anachip | LAT = Lattice Semiconductor | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Dallas Semiconductors

★ Web Code: QDH

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
866584	DS2752R	DIP-8	Line powered RS-232 transceiver chip	\$4.75	\$4.49	\$3.95
114198	DS1210	DIP-8	NV controller chip .....	3.75	2.95	2.25
114219	DS1213C	DIP-28	Smart socket .....	15.95	14.95	13.95
133410	DS1216C	DIP-28	Smart watch/RAM .....	25.95	22.95	17.95
780182	DS1231-20R	DIP-8	Power monitor chip .....	5.95	4.49	3.95
114331	DS1232LP	DIP-8	Micromonitor chip .....	1.69	1.35	1.09
697231	DS1243Y-120+R	DIP-28	64k NV SRAM w/ phantom clock .....	23.95	21.95	19.95
133444	DS1286	DIP-28	Watchdog timekeeper .....	19.95	17.95	15.95
76646	DS1287★	DIP-24	Real time clock chip .....	7.95	7.25	6.49
176778	DS1302	DIP-8	Trickle charge time keeping .....	2.59	2.05	1.49
780481	DS1302+R	DIP-8	Trickle charge time keeping chip, C-temp .....	2.95	2.29	1.65
1194679	DS1307R	DIP-8	5V, 64 x 8 serial I2C real time clock, C-temp .....	2.95	2.49	1.85
114374	DS1387★	DIP-24	RAMified real time clock .....	5.95	5.25	4.75
114382	DS1620	DIP-8	Digital thermometer and thermostat .....	5.25	4.49	2.95
865936	DS18B20R	TO-92	Prog. resolution 1-wire digital thermometer .....	4.25	3.75	3.49
133452	DS12887★	DIP-24	Real time clock chip .....	5.95	4.95	3.75

★ Pull = Extra Savings

## PALs, GALs & PEELs

★ Web Code: YAD

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
28020	♦	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array	\$1.95	\$1.75
111667	♦	PAL16R6ANC	DIP-20	TTL, 32 x 64 AND array .....	1.49	1.25
652615	♦	GAL16V8-7	DIP-20	7ns 64 x 32 AND array .....	1.95	1.75
88399	♦	GAL16V8-10*	DIP-20	10ns 64 x 32 AND array .....	1.85	1.65
37452	♦	GAL16V8-15*	DIP-20	15ns 64 x 32 AND array .....	1.09	.99
37461	♦	GAL16V8-25*	DIP-20	25ns 64 x 32 AND array .....	.99	.89
876539	LAT	GAL16V8D-25LP	DIP-20	25ns 64 x 32 AND array .....	1.25	1.15
312995	♦	16CV8P-25	DIP-20	25ns 64 x 32 AND array, PEEL .....	.89	.69
105953	ANA	18CV8P-25	DIP-20	25ns 74 x 36 AND array, PEEL .....	2.75	2.45
88292	♦	GAL20V8-10**	DIP-24	10ns 64 x 40 AND array .....	1.75	1.49
38658	♦	GAL20V8-15**	DIP-24	15ns 64 x 40 AND array .....	1.59	1.45
38666	♦	GAL20V8-25	DIP-24	25ns 64 x 40 AND array .....	1.49	1.15
105996	ANA	22CV10AP-25	DIP-24	25ns 132 x 44 AND array, PEEL .....	2.95	2.75
876951	LAT	GAL22V10D-15LP	DIP-24	15ns 132 x 44 AND array .....	4.49	3.49
39159	♦	GAL22V10-15	DIP-24	15ns 132 x 44 AND array .....	3.75	3.49
39167	♦	GAL22V10-25	DIP-24	25ns 132 x 44 AND array .....	2.45	2.25
1247902	LAT	GAL22V10D-25LJ	PLCC-28	25ns 132 x 44 AND array .....	2.49	2.25

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

\* Replaces PALs: 10H, 10L, 10P, 12H, 12L, 12P, 14H, 14L, 14P, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H, 16L, 16P6

\*\* Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

## Voice Chip

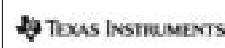
★ Web Code: XAU

### Single-Chip Voice Record/Playback Device

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated
- Typical 100k record cycles, 1μA standby current and 100 year message retention



Part No.	Mfr. Part No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.) .....	\$6.95	\$6.25	\$5.49



## Microcontrollers

\* Web Code: PAV

Part No.	*Mfr.	Mfr. Part No.	Pkg.	Description	1	10	Part No.	*Mfr.	Mfr. Part No.	Pkg.	Description	1	10
145040	MCH	PIC12C508A-04/P <del>A</del>	DIP-8	512 OTP, 4MHz, 5 I/O, C-temp .....	\$ .95	\$ .85	200491	MCH	PIC18C242-I/SP	DIP-28	16k OTP, 512-bit, 40MHz, 23 I/O .....	\$5.25	\$4.49
144258	MCH	PIC12C509A-04/P <del>A</del>	DIP-8	1k OTP, 4MHz, 5 I/O, C-temp .....	.95	.85	200504	MCH	PIC18C252-I/SP	DIP-28	32k OTP, 1536-bit, 40MHz, 23 I/O .....	5.49	4.95
145058	MCH	PIC12C509A/JW	DIP-8	1k EEPROM, 41-bit, 4MHz, 5 I/O .....	10.95	9.49	247994	MCH	PIC18F252-I/SP <del>A</del>	DIP-28	32k flash, 40MHz, 23 I/O, I-temp .....	5.39	5.25
193455	MCH	PIC12C671-04/P	DIP-8	1k OTP, 128-bit, 4MHz, 6 I/O .....	1.75	1.49	248081	MCH	PIC18F442-I/L	PLCC-44	768-bit, 8k flash, 40MHz, 34 I/O .....	5.95	5.75
193463	MCH	PIC12C672-04/P	DIP-8	2k OTP, 128-bit, 4MHz, 6 I/O .....	1.75	1.49	312477	MCH	PIC18F448-I/L	PLCC-44	768-bit, 16k flash, 40MHz, 33 I/O .....	7.95	6.49
248145	MCH	PIC12CE674-10/P	DIP-8	2k OTP, 128-bit, 10MHz, 5 I/O .....	2.49	1.95	248031	MCH	PIC18F452-I/PA <del>A</del>	DIP-40	32k flash, 40MHz, 34 I/O, I-temp .....	5.95	5.75
223790	MCH	PIC12F629-1P <del>A</del>	DIP-8	1k flash, 20MHz, 6 I/O, I-temp .....	.89	.85	248049	MCH	PIC18F452-I/L <del>A</del>	PLCC-44	32k flash, 40MHz, 34 I/O, I-temp .....	6.75	6.25
223781	MCH	PIC12F675-1P <del>A</del>	DIP-8	1k flash, 20MHz, 6 I/O, I-temp .....	1.09	.99	248057	MCH	PIC18F458-I/PA <del>A</del>	DIP-40	32k flash, 40MHz, 33 I/O, I-temp .....	6.95	6.75
312514	MCH	PIC12F683-1P <del>A</del>	DIP-8	2k flash, 20MHz, 6 I/O, I-temp .....	1.29	1.25	248129	MCH	PIC18F1320-I/SO	SOIC-18	256-bit, 4k flash, 40MHz, 16 I/O .....	2.49	2.25
128338	MCH	PIC16C54A-04/P <del>A</del>	DIP-18	512 OTP, 4MHz, 12 I/O, C-temp .....	1.39	1.29	248111	MCH	PIC18F1320-I/PA <del>A</del>	DIP-18	8k flash, 40MHz, 16 I/O, I-temp .....	3.95	3.49
247214	MCH	PIC16C54C-20/I/P	DIP-18	512 OTP, 25-bit, 20MHz, 12 I/O .....	1.45	1.25	312303	MCH	PIC18F2525-I/SP <del>A</del>	DIP-28	48k flash, 40MHz, 25 I/O, I-temp .....	6.95	6.25
200416	MCH	PIC16C55A-04/P	DIP-28	512 OTP, 24-bit, 4MHz, 20 I/O .....	1.95	1.59	248330	ATM	ATMEGA8-16PI	DIP-28	8k flash, 16MHz, 23 I/O, I-temp .....	2.95	2.65
247265	MCH	PIC16C56A-20/I/P	DIP-18	1k OTP, 25-bit, 20MHz, 12 I/O .....	1.95	1.49	248161	ATM	ATTINY11-6SI	SOIC-8	8-bit MCU, 1k flash, 6MHz, 6 I/O, I-temp .....	1.95	1.25
193341	MCH	PIC16C57C-04/P <del>A</del>	DIP-28	2k OTP, 4MHz, 20 I/O, C-temp .....	2.09	1.95	765302	ATM	ATTINY13-20PU <del>A</del>	DIP-8	1kB flash, 20MHz, 6 I/O, I-temp .....	1.95	1.75
200424	MCH	PIC16C66-04/SP	DIP-18	8k OTP, 368-bit, 4MHz, 22 I/O .....	4.95	4.49	168874	ATM	AT89C2051-24PU <del>A</del>	DIP-20	2kB flash, 24MHz, 15 I/O, C-temp .....	1.09	.89
247484	MCH	PIC16C67-20/P	DIP-40	8k OTP, 368-bit, 20MHz, 33 I/O .....	5.49	5.25	204089	ATM	AT89C4051-24PC	DIP-20	4kB flash, 24MHz, 15 I/O, C-temp .....	1.95	1.49
200432	MCH	PIC16C72A-04/SP	DIP-28	2k OTP, 128-bit, 4MHz, 22 I/O .....	3.49	2.95	323133	ATM	ATMEGA16-16PU <del>A</del>	DIP-40	6kB flash, 16MHz, 32 I/O, I-temp .....	4.75	3.95
247695	MCH	PIC16C72A-20/I/P	DIP-28	2k OTP, 128-bit, 20MHz, 22 I/O .....	3.95	3.55	689039	ATM	ATTINY231V-10PU <del>A</del>	DIP-20	2kB flash, 10MHz, 18 I/O, I-temp .....	2.25	1.59
193359	MCH	PIC16C711-04/P <del>A</del>	DIP-18	1k OTP, 4MHz, 13 I/O, C-temp .....	2.25	2.15	1537061	ATM	ATTINY2313-20PU <del>A</del>	DIP-20	2k flash, 20MHz, 18 I/O, I-temp .....	2.15	1.79
247599	MCH	PIC16C711-20/I/P <del>A</del>	DIP-18	1k OTP, 68-bit, 20MHz, 13 I/O .....	2.75	2.49	248217	ATM	ATTINY26-16PC	DIP-20	2kB flash, 16MHz, 16 I/O, C-temp .....	2.05	1.49
247601	MCH	PIC16C711-20/SO	SOIC-18	1k OTP, 68-bit, 20MHz, 13 I/O .....	2.75	2.49	699552	NXP	P80C31SBPN <del>A</del>	DIP-40	128x8 RAM, LV (2.7-5.5V), LP, hi-sp (33MHz) .....	1.95	1.75
247759	MCH	PIC16C773-I/SP	DIP-28	4k OTP, 256-bit, 20MHz, 22 I/O .....	4.95	4.49	323141	ATM	ATMEGA8515-16PC	DIP-40	8kB flash, 16MHz, 35 I/O, C-temp .....	4.95	4.75
145111	MCH	PIC16F84A-04/P <del>A</del>	DIP-18	1k flash, 4MHz, 13 I/O, C-temp .....	3.55	3.35	395621	ATM	ATMEGA8515L-8PC	DIP-40	8kB flash, 8MHz, 35 I/O, C-temp .....	3.49	2.95
145120	MCH	PIC16F84-10/P <del>A</del>	DIP-18	1k flash, 10MHz, 13 I/O, C-temp .....	6.95	6.75	168911	ATM	AT89C51-24JC	PLCC-44	4kB flash, 24MHz, 32 I/O, C-temp .....	3.95	3.49
193332	MCH	PIC16F84A-20/P <del>A</del>	DIP-18	1k flash, 20MHz, 13 I/O, C-temp .....	3.75	3.55	168903	ATM	AT89C51-24PC	DIP-40	4kB flash, 24MHz, 32 I/O, C-temp .....	3.95	3.49
246861	MCH	PIC16F84A-20I/P <del>A</del>	DIP-18	1k flash, 20MHz, 13 I/O, I-temp .....	3.95	3.75	168920	ATM	AT89C52-24PC	DIP-40	8kB flash, 24MHz, 32 I/O, C-temp .....	2.95	2.49
246887	MCH	PIC16F84A-20/SS	SSOP-20	68-bit, 1k flash, 20MHz, 13 I/O .....	5.25	4.75	220871	ATM	AT89S52-24JI	PLCC-44	8kB flash, 24MHz, 32 I/O, I-temp .....	1.35	1.25
247097	MCH	PIC16F87-I/P <del>A</del>	DIP-18	4k flash, 20MHz, 16 I/O, I-temp .....	3.49	3.25	662637	ATM	AT89S52-24PC	DIP-40	8kB flash, 24MHz, 32 I/O, C-temp .....	1.75	1.65
312733	MCH	PIC16F88-I/P <del>A</del>	DIP-18	4k flash, 20MHz, 16 I/O, I-temp .....	3.25	2.95	168946	ATM	AT89C55WD-24PC	DIP-40	20kB flash, 24MHz, 32 I/O, C-temp .....	3.49	3.25
193439	MCH	PIC16F627-20/P <del>A</del>	DIP-18	1k flash, 20MHz, 16 I/O, C-temp .....	2.95	2.75	114403	DAL	DS80C320-MCG	DIP-40	High speed LP micro, C-temp .....	10.95	8.95
193447	MCH	PIC16F628-20/P <del>A</del>	DIP-18	2k flash, 20MHz, 16 I/O, C-temp .....	3.25	2.95	1951035	ATM	AT89S8253-24PU <del>A</del>	DIP-40	12kB flash, 24MHz, 32 I/O, I-temp .....	3.95	3.49
246756	MCH	PIC16F628-20/I/P <del>A</del>	DIP-18	2k flash, 20MHz, 16 I/O, I-temp .....	3.49	3.25	248663	TI	MSP430F1121APW	SSOP-20	16-bit MCU, flash, 8MHz 4k ROM, 14 I/O .....	2.95	2.49
223749	MCH	PIC16F630-I/P <del>A</del>	DIP-14	1k flash, 20MHz, 12 I/O, I-temp .....	1.29	1.19							
247151	MCH	PIC16F648A-1/SO	SOIC-18	256-bit, 4k flash, 20MHz, 16 I/O .....	1.95	1.75							
247142	MCH	PIC16F648A-I/P <del>A</del>	DIP-18	4k flash, 20MHz, 16 I/O, I-temp .....	2.25	1.95							
223757	MCH	PIC16F676-I/P <del>A</del>	DIP-14	1k flash, 20MHz, 12 I/O, I-temp .....	1.29	1.25							
312590	MCH	PIC16F684-I/P <del>A</del>	DIP-14	2k flash, 20MHz, 12 I/O, I-temp .....	1.59	1.49							
312611	MCH	PIC16F688-I/P <del>A</del>	DIP-14	4k flash, 20MHz, 12 I/O, I-temp .....	1.95	1.75							
312725	MCH	PIC16F777-I/P <del>A</del>	DIP-40	368-bit, 8k flash, 20MHz, 36 I/O .....	3.95	3.49							
223765	MCH	PIC16F818-I/P <del>A</del>	DIP-18	1k flash, 20MHz, 16 I/O, I-temp .....	2.09	1.95							
247071	MCH	PIC16F819-I/SS	SSOP-20	256-bit, 2k flash, 20MHz, 16 I/O .....	2.15	1.95							
223773	MCH	PIC16F819-I/P <del>A</del>	DIP-18	2k flash, 20MHz, 16 I/O, I-temp .....	2.59	2.25							
246895	MCH	PIC16F870-I/SP <del>A</del>	DIP-28	2k flash, 20MHz, 22 I/O, I-temp .....	2.95	2.75							
246924	MCH	PIC16F871-I/P <del>A</del>	DIP-40	128-bit, 2k flash, 20MHz, 33 I/O .....	3.15	2.95							
246941	MCH	PIC16F872-I/SP <del>A</del>	DIP-28	2k flash, 20MHz, 22 I/O, I-temp .....	2.95	2.75							
246975	MCH	PIC16F873A-I/SP <del>A</del>	DIP-28	4k flash, 20MHz, 22 I/O, I-temp .....	3.95	3.75							
193367	MCH	PIC16F876-20/SP <del>A</del>	DIP-28	8k flash, 20MHz, 22 I/O, C-temp .....	5.95	5.75							
247011	MCH	PIC16F876A-I/SP <del>A</del>	DIP-28	8k flash, 20MHz, 22 I/O, I-temp .....	4.25	3.95							
247046	MCH	PIC16F877A-I/L <del>A</del>	PLCC-44	8k flash, 20MHz, 33 I/O, I-temp .....	5.65	5.45							
176882	MCH	PIC16F877-20/P <del>A</del>	DIP-40	8k flash, 20MHz, 22 I/O, C-temp .....	5.65	5.45							
247038	MCH	PIC16F877A-I/P <del>A</del>	DIP-40	8k flash, 20MHz, 33 I/O, I-temp .....	4.75	4.55							
247880	MCH	PIC17C42A-16/L	PLCC-44	2k OTP, 232-bit, 16MHz, 33 I/O .....	7.95	6.95							
247901	MCH	PIC17C43-25/L	PLCC-44	4k OTP, 454-bit, 25MHz, 33 I/O .....	10.95	9.95							
247919	MCH	PIC17C44-33/P <del>A</del>	DIP-40	8k OTP, 454-bit, 33MHz, 33 I/O .....	9.95	8.95							
247943	MCH	PIC17C756A-33/L	PLCC-68	16k OTP, 902-bit, 33MHz, 50 I/O .....	11.95	10.95							
247951	MCH	PIC17C762-16/L	PLCC-44	8k OTP, 678-bit, 33MHz, 66 I/O .....	12.95	11.95							
247960	MCH	PIC17C766-33/L	PLCC-84	16k OTP, 902-bit, 33MHz, 66 I/O .....	14.95	12.95							

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\* ATM = Atmel Semiconductor | DAL = Dallas Semiconductor | MCH = Microchip | NXP = NXP/Philips Semi | TI = Texas Instruments

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

## Microcontrollers (Continued)

\* Web Code: PAV

Part No.	*Mfr.	Mfr. Part No.	Pkg.	Description	1	10
200491	MCH	PIC18C242-I/SP	DIP-28	16k OTP, 512-bit, 40MHz, 23 I/O .....	\$5.25	\$4.49
200504	MCH	PIC18C252-I/SP	DIP-28	32k OTP, 1536-bit, 40MHz, 23 I/O .....	5.49	4.95
247994	MCH	PIC18F252-I/SP <del>A</del>	DIP-28	32k flash, 40MHz, 23 I/O, I-temp .....	5.39	5.25
248081	MCH	PIC18F442-I/L	PLCC-44	768-bit, 8k flash, 40MHz, 34 I/O, I-temp .....	5.95	5.75
312477	MCH	PIC18F448-I/L	PLCC-44	768-bit, 16k flash, 40MHz, 33 I/O .....	7.95	6.49
248031	MCH	PIC18F452-I/PA <del>A</del>	DIP-40	32k flash, 40MHz, 34 I/O, I-temp .....	5.95	5.75
248049	MCH	PIC18F452-I/L <del>A</del>	PLCC-44	32k flash, 40MHz, 34 I/O, I-temp .....	6.75	6.25
248057	MCH	PIC18F458-I/PA <del>A</del>	DIP-40	32k flash, 40MHz, 33 I/O, I-temp .....	6.95	6.75
248129	MCH	PIC18F1320-I/SO	SOIC-18	256-bit, 4k flash, 40MHz, 16 I/O .....	2.49	2.25
248111	MCH	PIC18F1320-I/PA <del>A</del>	DIP-18	8k flash, 40MHz, 16 I/O, I-temp .....	3.95	3.49
312303	MCH	PIC18F2525-I/SP <del>A</del>	DIP-28	48k flash, 40MHz, 25 I/O, I-temp .....	6.95	6.25
248330	ATM	ATMEGA8-16PI	DIP-28	8kB flash, 16MHz, 23 I/O, I-temp .....	2.95	2.65
248161	ATM	ATTINY11-6SI	SOIC-8	8-bit MCU, 1k flash, 6MHz, 6 I/O, I-temp .....	1.95	1.25
765302	ATM	ATTINY13-20PU <del>A</del>	DIP-8	1kB flash, 20MHz, 6 I/O, I-temp .....	1.95	1.75
168874	ATM	AT89C2051-24PU <del>A</del>	DIP-20	2kB flash, 24MHz, 15 I/O, C-temp .....	1.09	.89
204089	ATM	AT89C4051-24PC	DIP-20	4kB flash, 24MHz, 15 I/O, C-temp .....	1.95	1.49
323133	ATM	ATMEGA16-16PU <del>A</del>	DIP-40	6kB flash, 16MHz, 32 I/O, I-temp .....	4.75	3.95
689039	ATM	ATTINY231V-10PU <del>A</del>	DIP-20	2kB flash, 10MHz, 18 I/O, I-temp .....	2.2	

# Controllers, Stamps, Interface Series & Motor Drivers

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## 80C52-BASIC Microcontroller

A custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

- Full BASIC interpreter in ROM on a single chip
- Operates DC to 12MHz
- "Stand-alone" software development
- On-chip oscillator and clock circuit
- Interrupts can be handled by BASIC or Assembly Language

Part No.	Mfr. Part No.	Description	1	10	50
125647	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter	\$33.95	\$31.95	\$29.95

## KAE Servo Controllers



Controller operates from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

### 146472: PIC-SERVO Motion Control Chipset for DC Motors

- For DC motors with digital encoders
- 32-bit position, velocity and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chipset (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)

### 323934: PIC-SERVO SC Servo Motion Control I.C.

- For DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

Part No.	Mfr. Part No.	Package	1	10	50
146472	KAE-T0V4-DPS	DIP-28/18, 0.3"	\$35.95	\$32.95	\$30.95
323934	KAE-T0V10-DP	DIP-28, 0.3"	29.95	26.95	24.95

## KAE Smart Serial Adapter



### Serial Converter/Standalone Host Controller

- Supports USB or RS232 serial interface
- Up to 32 NMC PIC-SERVO, PIC-STEP, PIC-I/O modules can be controlled from a single smart serial adapter
- RS232 operation supports baud rates from 19,200 to 115,200
- Supports Windows®, LINUX, Mac® OS, and other operating systems
- May be used as a stand alone host with either the simple sequencer chip or a PIC18F2620 MCU
- On board connector for MICROCHIP MPLAB ICD2

Part No.	Mfr. Part No.	Description	1	5
1586120	KAE-SSA485-BDV1	Smart serial adapter	\$99.95	\$89.95

## PARALLAX BASIC Stamp Modules



### 183071: BS2 OEM Kit Z

Complete specifications see [www.Jameco.com](http://www.Jameco.com)



Part No.	Mfr. Part No.	Package	Speed	No. of I/O Pins	1	5
127693	BS1-IC	14-pin	4MHz	8	\$28.95	\$26.95
183071	27291	20-pin SIP	—	—	30.95	29.95
130892	BS2-IC <sup>®</sup>	24-pin	20MHz	16 + 2	48.95	43.95
283047	BS2E-IC <sup>®</sup>	24-pin	20MHz	16 + 2	53.95	49.95
2109641	BS2PE <sup>®</sup>	24-pin	8MHz (turbo)	16 + 2	74.95	70.95
184911	BS2P24-IC <sup>®</sup>	24-pin	20MHz (turbo)	16 + 2	74.95	69.95
184920	BS2P-40-IC <sup>®</sup>	40-pin	20MHz (turbo)	16 + 2	84.95	79.95
2109350	BS2PX24 <sup>®</sup>	24-pin	32MHz (turbo)	16 + 2	78.95	74.95
159775	BS2SX-IC <sup>®</sup>	24-pin	50MHz (turbo)	16 + 2	55.95	51.95

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Part No.	Mfr. Part No.	Package	1	10
2007134	P8X32A-D40 <sup>®</sup>	DIP-40	\$12.95	\$11.95

## Tiny Logic® Series

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Part No.	Mfr. Part No.	Pkg.	Description	10	100
873830	NC7SU04M5X <sup>®</sup>	SOT-23/5	Single unbuffered inverter	\$0.07	\$0.05
873725	NC7S08P5X <sup>®</sup>	SC-70/5	Single 2-input AND gate	.09	.05
874138	NC7SZ125M5X <sup>®</sup>	SOT-23/5	Buffer w/ 3-st. output	.09	.05

## Interface Series

★ Web Code: RBU

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
242077	♦	TC428CPA	DIP-8	4.5-18V, dual MOSFET driver	\$0.99	\$0.89
832448	♦	DS2L632ACM/NOPB <sup>®</sup>	SOIC-16	Quad differential line receiver	.89	.55
1291647	MCH	TC4420CPA <sup>®</sup>	DIP-8	6A high speed MOSFET driver	1.39	1.15
313437	♦	ICM7218AIJ	DIP-28	5V, 8 digit LCD driver	6.95	6.25
312160	MAX	MAX7219CNG	DIP-24	5V, 8 digit LCD driver	7.95	6.95
313322	♦	ICM7228AIPI	DIP-28	5V, 8 digit LCD driver	5.95	5.49
50884	♦	SN75154N	DIP-16	5-12V, quad line receiver	.39	.35
277940	♦	SN75179BP	DIP-8	5V, diff line driver/receiver	1.29	1.09
277974	♦	SN75183N <sup>®</sup>	DIP-14	5V, dual diff line driver	1.95	1.75
51027	♦	SN75451AN	DIP-8	7V, dual peripheral AND driver	.59	.49
51131	♦	SN75492P	DIP-14	5V, HEX digit driver	4.95	4.49

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## Digital Interface

★ Web Code: WBB

Part No.	Mfr. Part No.	Pkg.	Description	1	10	50
171951	EDE702 <sup>®</sup>	DIP-18	Serial LCD interface	\$7.19	\$6.75	\$6.25
171969	EDE1144 <sup>®</sup>	DIP-18	Keypad encoder	5.19	4.95	4.75
141532	EDE1200 <sup>®</sup>	DIP-18	Unipolar stepper motor controller	6.39	6.15	5.95
157526	EDE1204 <sup>®</sup>	DIP-18	Bipolar stepper motor controller	6.39	6.15	5.95
321736	EDE2008 <sup>®</sup>	DIP-18	Pushbutton debouncer w/ 8-independent chan	4.19	3.95	3.75
321761	EDE2208/P <sup>®</sup>	DIP-18	8-pushbutton momentary to toggle	4.19	3.95	3.75

## Motor/Display Drivers

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Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
25216	ON	MC3479P	DIP-16	7.2-16.5V, stepper motor driver	\$5.95	\$5.49	\$4.95
1762681	ALL	UDN2981A-T <sup>®</sup>	DIP-18	8-channel source driver	1.79	1.59	1.39
24230	NSC	LM3914N	DIP-18	25V, dot/bar display driver	2.75	2.49	2.25
300003	NSC	LM3914N-1	DIP-18	25V, dot/bar display driver	1.95	1.85	1.59
901010	NSC	LM3914N-1/NOPB <sup>®</sup>	DIP-18	25V, dot/bar display driver	2.35	1.95	1.45
246625	NSC	LM3914V <sup>®</sup>	PLCC-20	25V, dot/bar display driver	2.49	2.25	1.95
24256	NSC	LM3915N	DIP-18	25V, dot/bar display driver	2.75	2.49	2.25
901061	NSC	LM3915N-1	DIP-18	3db/step, 30db range dot/bar disp.drv	3.09	2.49	1.95
24272	NSC	LM3916N	DIP-18	3-25V, dot/bar display driver	2.75	2.49	2.25
241824	MOT	MC14489BP	DIP-20	5V, 7-segment LED display driver	3.95	3.25	2.95

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\* ALL = Allegro | MAX = Maxim Semi | MCH = Microchip | MOT = Motorola | NSC = National Semi | ON = ON Semi | ♦ Manufacturer Varies

<sup>R</sup> RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)



## Stepper Motor Drivers/Controllers

★ Web Code: GDP

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
924545	L293DD*	SOIC-20	Push pull 4-ch driver w/ diodes .....	\$4.49	\$3.75	\$3.25
288067	L297/1	DIP-20	Stepper motor controller, 5V .....	8.95	7.95	6.95
245403	L298N	MW-15	Dual full-bridge driver, 46V .....	2.59	2.45	2.25
288091	L6202	DIP-18	DMOS full-bridge driver, 48V .....	5.95	5.49	4.95
288104	L6203	MW-11	DMOS full-bridge driver, 48V .....	6.95	6.25	5.49

★ Motion Control Available Online — Enter Web Code DEU

## Encoders/Decoders

★ Web Code: VAR

Part No.	*Mfr. Product No.	Pkg.	Description	1	10	100
243408	◆ TP3054N	DIP-16	U-law PCM CODEC & filter, 5V .....	\$2.45	\$1.75	\$1.45
296702	MOT MC145026P	DIP-16	Encoder, 4.5-18V .....	2.49	2.25	2.05
296711	MOT MC145027P	DIP-16	Decoder, 4.5-18V .....	2.95	2.75	2.49
123730	HOL HT12E	DIP-18	Encoder, 2.4-12V .....	1.75	1.55	1.35
123748	HOL HT12D	DIP-18	Decoder, 2.4-12V .....	1.65	1.45	1.25
243483	MCH HCS512-I/P	DIP-18	Code hopping decoder, 4-6V .....	4.95	4.25	3.95
287945	MCH MCP2140-I/P	DIP-18	Standard protocol stack controller, 3-5V ...	2.95	2.75	1.49
287970	MCH MCP2150-I/SO	SOIC-18	Standard protocol stack controller, 3-5V ...	3.95	2.95	2.75
243459	MCH MCP2150-I/P	DIP-18	Standard protocol stack controller, 3-5V ...	2.95	2.75	2.49

## Buffer

★ Web Code: WBR

Part No.	Product No.	Pkg.	Description	1	10	100
23051	LH0002CN	DIP-10	General purpose buffer .....	\$12.95	\$11.95	\$10.95

## Power Management

★ Web Code: PMT

Part No.	*Mfr. Product No.	Pkg.	Description	1	10
312848	TI BQ2004PN*	DIP-16	NiMH/NiCd switchmode chrg mgmt w/ neg dV	\$2.95	\$2.49
312928	TI BQ2018TS-E	TSSOP-8	Rechargeable battery power monitor .....	3.95	3.49
312936	TI BQ2019PW*	TSSOP-8	Rechargeable battery power monitor .....	3.49	3.25
312881	TI BQ2040SN-D111	SOIC-16	Li-Ion/NiMH/NiCD gas gauge w/ smbus .....	5.95	4.95

## RS-422/423/485 Drivers/Receivers

★ Web Code: NBT

Part No.	*Mfr. Product No.	Pkg.	Description	1	10	100
299807	◆ LTC485CN8	DIP-8	RS-485 LP xcvr, 5V .....	\$1.75	\$1.49	\$1.25
244195	◆ MAX1487CPA	DIP-8	RS-485/422 LP xcvr, 12V .....	2.25	1.75	1.55
39571	◆ 26LS30	DIP-16	RS-422/423 line driver, 5V .....	2.49	2.25	1.95
39600	◆ 26LS32	DIP-16	RS-422/423 quad diff. line rcvr, 5V .....	.59	.49	.45
25232	◆ MC3486P	DIP-16	RS-422/423 quad diff. line rcvr, 5V .....	*.15	.12	
25259	◆ MC3487P*	DIP-16	RS-422/423 quad line driver, 5V .....	.29	.25	.22
50948	◆ SN75174N	DIP-16	RS-422 quad diff. line driver w/ 3 st. ....	.89	.79	.69
50956	◆ SN75175N	DIP-16	RS-422/423 quad diff. line rcvr, 5V .....	.89	.79	.69
758364	TI SN75176AP*	DIP-8	RS-422 differential bus xcvr .....	.65	.55	.45
50964	◆ SN75176BN	DIP-8	RS-422 diff. line bus xcvr, 5V .....	.59	.49	.45

\* Blue Part No. = Limited Quantity Available

★ 65LVDS Series Available Online — Enter Web Code UEU

## RS-232 Drivers/Receivers

★ Web Code: EAV

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
142535	◆	MAX202CPE	DIP-16	5V, 120kbps, w/ 0.1µF ext. caps .....	\$2.49	\$2.05	\$1.95
244232	◆	MAX202CSE	SOIC-16	5V, 120kbps, w/ 0.1µF ext. caps .....	2.25	1.95	1.75
244241	◆	MAX202EPE	DIP-16	5V, 120kbps, w/ 0.1µF ext. caps .....	2.95	2.49	2.25
282790	MAX	MAX211CAI	SSOP-28	5V, w/ 0.1µF ext. caps .....	2.95	2.75	2.49
875448	INS	HIN232CP	DIP-16	5V hi spd RS-232 transmitter/rcvr .....	1.09	.99	.89
248111	◆	MAX232CPE*	DIP-16	5V, 200kbps, multichannel .....	1.85	1.65	1.25
24812	◆	MAX232CPE*	DIP-16	5V, 200kbps, multichannel .....	1.95	1.75	1.35
318959	MAX	MAX232CPE	DIP-16	5V, 200kbps, multichannel .....	2.25	1.95	1.75
318960	MAX	MAX232CPE*	DIP-16	5V, 200kbps, multichannel .....	2.49	2.15	1.95
106147	◆	MAX232CWE	SOIC-16	5V, 120kbps, multichannel .....	2.49	2.15	1.95
256401	◆	MAX232DR*	SOIC-16	5V, 120kbps, dual driver/rcvr .....	.69	.59	.49
882293	MAX	MAX232ECPE*	DIP-16	5V, RS-232 xcrv,±15kV ESD .....	3.75	3.09	2.95
106155	◆	MAX232EPE	DIP-16	5V, 120kbps, multichannel .....	3.95	3.15	2.79
698576	TI	MAX232N*	DIP-16	Dual EIA-232 driver/receiver, C-temp .....	.75	.65	.55
903277	TI	MAX232IN*	DIP-16	Dual EIA-232 driver/receiver, I-temp .....	.75	.65	.55
106163	◆	MAX233CPP	DIP-20	5V, 120kbps, multichannel .....	5.75	4.75	4.25
106171	◆	MAX235CPG	DIP-24	5V, 120kbps, multichannel .....	10.95	9.95	7.95
106180	◆	MAX238CNG	DIP-24	5V, 120kbps, multichannel .....	5.49	4.95	4.25
23157	◆	DS1488N*	DIP-14	15V, quad line driver .....	.35	.29	.25
16379	◆	DS14C89N	DIP-14	5V, quad line receiver .....	1.19	1.09	.95
235301	◆	DS14C232CN	DIP-16	5V, LP, TIA/EIA dual driver/rcvr .....	2.49	2.25	1.95
23181	◆	SN75189N*	DIP-14	5V, quad line receiver .....	.35	.29	.25
25099	◆	MC145406P	DIP-16	5-12V, EIA-232-D/V.28 driver/rcvr .....	2.25	1.95	1.75
929207	ON	MC100EP17DWG*	SOIC-20	Quad differential driver/receiver .....	15.95	13.95	11.95

\*10 pcs. in Linear series IC cabinet kit, pg 16

## Comparators

★ Web Code: EBS

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
311044	NSC	LM111J-8	DIP-8	Voltage comparator .....	\$7.95	\$6.95	\$6.25
282087	◆	LM139J	CDIP-14	Low power, low offset volt quad .....	1.75	1.55	1.35
23528	◆	LM311N*	DIP-8	Voltage comparator .....	.25	.22	.19
902522	TI	LM311DR*	SOIC-8	Differential comparator w/ strobes .....	*.12	.09	
837812	NSC	LM311N/NOPB*	DIP-8	Voltage comparator .....	.89	.69	.49
143888	◆	LM339AN*	DIP-14	Low power quad comparator .....	.25	.22	.15
826742	TI	LM339N*	DIP-14	Quad differential comparator .....	.35	.29	.25
23851	◆	LM339N**	DIP-14	Quad comparator .....	.25	.22	.17
193594	◆	LM339M	SOIC-14	Low power low offset volt quad .....	.25	.22	.15
120900	◆	LM392N	DIP-8	Low power op amp./volt comp. ....	1.09	.99	.89
24281	◆	LM393N*	DIP-8	Dual comparator .....	.25	.22	.17
212177	◆	LM393AN*	DIP-8	Low power low offset volt quad comp. ....	*.19	.15	
297844	MAX	MAX902CSD	SOIC-14	Hi-speed low power precision volt comp. ....	7.95	5.95	4.95
312266	LTC	LT1016CS8	SOIC-8	Ultra-fast precision 10ns comparator..	2.95	1.95	1.75
107238	◆	LM3302N	DIP-14	Low power low offset volt quad .....	.59	.49	.45
1944741	ST	TS3721IN	DIP-8	LP dual CMOS volt (I-temp) .....	.39	.35	.25
277173	NSC	LMC7211AIM	SOIC-8	Comp w/ rail-to-rail input, push pull output .....	.99	.79	.69
277190	NSC	LMC7211BIM	SOIC-8	Comp w/ rail-to-rail input, push pull output .....	.99	.79	.69

\*10 pcs./\*\*20 pcs. included in Linear kit, pg 16

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\* HOL = Holtek | INS = Intersil | LTC = Linear Technology | MAX = Maxim Semi | MCH = Microchip | MOT = Motorola | NSC = National Semi | ON = ON Semi | ST = ST Micro | TI = Texas Instruments | ◆ Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed AboveOrder by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Amplifiers, A/D and D/A Converters & Op Amps

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## Audio Amps

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100	*Web Code: MBP
243678	ADI	OP275GP	DIP-8	Dual JFET audio op amplifier ....	\$2.25	\$1.85	\$1.49	
24037	NSC	LM380N	DIP-14	2-watt, power amplifier .....	1.39	1.09	.75	
24088	NSC	LM383T	TO-220/5	7-watt, high power .....	5.95	5.49	4.95	
24096	NSC	LM384N	DIP-14	5-watt audio amplifier .....	1.65	1.45	1.05	
24125	NSC	LM386N-1*	DIP-8	Low voltage, 250mW/6V .....	.79	.59	.45	
24126	NSC	LM386N-1*	DIP-8	Low voltage, 250mW/6V .....	.65	.49	.41	
839826	NSC	LM386N-1/NOPB*	DIP-8	Low voltage audio power amp. ....	.99	.79	.55	
24133	NSC	LM386N-3*	DIP-8	Low voltage, 500mW/9V .....	.69	.59	.49	
24483	NSC	LM725CN	DIP-8	Instrumentation op amplifier ....	1.95	1.25	.95	
295718	NSC	LM1203N	DIP-28	RGB video amplifier .....	5.95	5.49	4.95	
24942	ON	MC1350P	DIP-8	Video IF amp. (12V operation) .....	2.95	2.75	2.49	
23270	NSC	LM1875T	TO-220/5	20-watt audio power amp. ....	2.95	2.49	1.95	
23288	NSC	LM1877N-9	DIP-14	Dual power audio amplifier .....	1.95	1.75	1.49	
107140	NSC	LM1881N	DIP-8	Video synchronous separator .....	2.49	2.25	1.59	
32897	ST	TDA2002V	TO-220/5	8-watt audio high power amp. ....	4.95	4.49	3.95	
1416999	ST	TDA2030V*	PWAT-5	14-watt hi-fi audio amp. ....	3.95	3.49	3.25	
315344	ST	TDA2040V	PWAT-5	20-watt hi-fi power .....	2.25	1.95	1.75	
275830	TI	OPA2134PA*	DIP-8	High performance audio op amp. ....	3.25	2.95	2.75	
275821	ADI	OPA2134UA*	SOIC-8	High-performance audio op amp. ....	1.95	1.69	1.45	
312063	ADI	SSM2141P	DIP-8	High common-mode rejection diff. line rec. ....	2.95	2.15	1.95	
320670	NSC	LM3886TF	TO-220/11	68-watt high-perf., isol. pkg. ....	5.95	4.95	4.25	
192516	NSC	LM3886T	TO-220/11	68-watt high-performance .....	5.95	4.95	3.95	
302201	NSC	LM4752T	TO-220/7	Stereo 11-watt audio power amp. ....	2.95	2.75	2.49	
316873	MOT	MC34119D	SOIC-8	LP audio amp. (500mW, 16VDC) ....	1.19	1.09	.89	
316865	MOT	MC34119P	DIP-8	LP audio amp. (500mW, 16VDC) ....	2.25	2.05	1.85	

\*10 pieces included in Linear kit, pg 16

◆ Blue Part No. = Limited Quantity Available

\*Instrumentation Amps Available Online — Enter Web Code NDA

## Analog Devices Amplifiers

Part No.	Mfr.	Part No.	Pkg.	Description	1	10	100	
1805943	ADXL213AE*	LCC-8		5V, low cost ±2g dual-axis accelerometer	\$16.95	\$15.95	\$14.95	
1780862	AD620ANZ*	DIP-8		Low cost, LP instrumentation amp .....	6.75	5.49	4.75	
1781136	AD627AR	SOIC-8		Low cost, instrumentation amp .....	4.95	3.95	3.49	
311132	AD811AN	DIP-8		High performance, video op amp .....	7.49	6.25	5.75	

## A/D & D/A Converters

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100	*Web Code: QAG
277149	MAX	MAX110ACWE	SOIC-16	A/D, 14-bit, 5V, 50spS, 2-ch.....	\$9.95	\$8.75	\$8.25	
277131	MAX	MAX110BCPE	DIP-16	A/D, 14-bit, 5V, 50spS, 2-ch.....	12.95	9.95	9.49	
277122	MAX	MAX110BCWE	SOIC-16	A/D, 14-bit, 5V, 50spS, 2-ch.....	8.95	6.75	6.25	
277069	MAX	MAX197BCNI	DIP-28	A/D, 12-bit, 5V, 10KspS, 8-ch.....	19.95	13.95	11.95	
289545	TI	TLC540IDW	SOIC-20	A/D, 8-bit, 5V, 75KspS .....	3.49	2.95	2.49	
289553	TI	TLC540IFN	PLCC-20	A/D, 8-bit, 5V, 75KspS .....	3.49	2.95	2.49	
289596	TI	TLC541IDW	SOIC-20	A/D, 8-bit, 5V, 40KspS .....	2.95	2.49	1.95	
289705	TI	TLC542IFN	PLCC-20	A/D, 8-bit, 5V, 25KspS .....	1.95	1.75	1.49	
289713	TI	TLC545CN	DIP-28	A/D, 8-bit, 5V, 76KspS .....	4.95	4.25	3.95	
10145	NSC	ADC0803LCN	DIP-20	A/D, 8-bit, 5V, 9.1KspS, 1-ch .....	3.95	3.25	2.95	
10153	NSC	ADC0804LCN	DIP-20	A/D, 8-bit, 5V, 9.1KspS, 1-ch .....	2.75	2.25	1.85	
828342	NSC	ADC0804LCNNOPB*	DIP-20	A/D, 8-bit pμP compatible (±1LSB) .....	2.95	2.35	2.05	
10170	NSC	ADC0808CCN	DIP-28	A/D, 8-bit, 5V, 9.1KspS, 8-ch .....	4.75	3.95	3.39	
10188	NSC	ADC0809CCN	DIP-28	A/D, 8-bit, 5V, 9.1KspS, 8-ch .....	2.59	2.39	2.25	
831031	NSC	ADC0816CCN	DIP-40	A/D, 8-bit, pμP comp. ADC w/ 16-ch....	11.95	10.25	9.25	
10209	NSC	ADC0817CCN	DIP-40	A/D, 8-bit, 5V, 9.1KspS, 16-ch....	4.95	3.95	3.49	
10225	NSC	ADC0820CCN	DIP-20	A/D, 8-bit, 5V, 1.5μs .....	3.49	3.15	2.49	
116100	NSC	ADC0831CCN	DIP-8	A/D, 8-bit, 5V, 32μs .....	1.75	1.55	1.35	
1252488	NSC	ADC0838CCNINOPB*	DIP-20	A/D, 8-bit serial, 5V, 32μs .....	2.75	2.25	1.75	
290538	TI	TLC0832CD	SOIC-8	A/D, 8-bit, 3V, 32μs .....	2.49	2.25	1.75	
288681	TI	THS1030IDW	SOIC-28	A/D, 10-bit, 3.5V, 30Msps .....	5.95	4.95	4.49	
288729	TI	THS1031IPW	TSSOP-28	A/D, 10-bit, 3.5V, 30Msps .....	6.95	5.49	5.25	

\* ADI = Analog Devices | INS = Intersil | LTC = Linear Tech | MAX = Maxim | MCH = Microchip | MOT = Motorola | NSC = National Semi | ON = ON Semi | SAM = Samsung | ST = ST Micro | TI = Texas Instruments | ♦ Varies

♦ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).

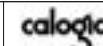
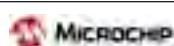
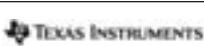
## A/D & D/A Converters (Continued)

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100	*Web Code: QAG
1748897	LTC	LTC1403AIMSE-1*	MSOP-10	A/D, 14-bit, 2.8Msps samp ADC ...	\$14.95	\$12.95	\$10.95	
289001	TI	TLC1541CDW	SOP-20	A/D, 10-bit, 5V, 32KspS .....	4.95	4.25	3.95	
289019	TI	TLC1541CN	DIP-20	A/D, 10-bit, 5V, 32KspS .....	4.95	4.49	4.25	
289078	TI	TLC1542CDW	SOP-20	A/D, 10-bit, 5V, 26μs, 11-ch .....	3.95	2.75	2.49	
289271	TI	TLC1543QDB	SSOP-20	A/D, 10-bit, 6.5V, 5V, 26μs, 11-ch .....	3.95	3.49	2.95	
289300	TI	TLC1543QDW	SOIC-20	A/D, 10-bit, 6.5V, 5V, 26μs, 11-ch .....	3.95	3.49	2.95	
288593	TI	PCM1800E	SSOP-24	A/D, 20-bit, 5V, 32-48KHz, 2-ch .....	3.49	3.25	2.95	
288622	TI	PCM1801U	SOIC-14	A/D, 20-bit, 5V, 32-48KHz, 2-ch .....	3.95	3.49	3.25	
290634	TI	TLV2543CDW	SOIC-20	A/D, 12-bit, 3.3V, 10μs, 11-ch .....	7.95	5.95	4.95	
290669	TI	TLV2543CN	DIP-20	A/D, 12-bit, 3.3V, 10μs, 11-ch .....	7.95	5.95	4.95	
288016	MCH	MCP3302-CI/SL	SOIC-14	A/D, 13-bit, 2.7-5.5V, 50-100KspS, 2-ch	2.95	2.49	2.25	
288024	MCH	MCP3302-CI/ST	TSSOP-14	A/D, 13-bit, 2.7-5.5V, 50-100KspS, 2-ch	2.49	2.35	2.15	
43748	♦	7106CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, 9V .....	2.25	1.95	1.75	
43756	♦	7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, ±5V .....	2.49	2.25	1.95	
875683	INS	ICL7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, 6V .....	3.25	2.95	2.59	
43764	♦	7109CPL	DIP-40	A/D, 12-bit, 5V, 30spS, 1-ch .....	3.95	2.25	1.95	
115158	ADI	AD558JN	DIP-16	A/D, 8-bit, 5-15V, 1-5.3μs, 1-ch .....	12.95	11.75	10.49	
1944581	SAM	KDA0408	DIP-42	A/D, 8-bit, 5V, 60Msps, triple .....	.49	.39	.35	
14904	NSC	DAC0800LCN	DIP-16	A/D, 8-bit, 4.5-18V, 150ns .....	1.49	1.19	.89	
14947	NSC	DAC0808LCN	DIP-16	A/D, 8-bit, 4.5-18V, 150ns .....	1.65	1.25	.95	
14963	NSC	DAC0830LCN	DIP-20	A/D, 8-bit, 5-15V, 1μs .....	4.95	4.25	3.49	
128186	NSC	DAC0832LCN	DIP-20	A/D, 8-bit, 5-15V, 1μs .....	3.49	2.75	2.49	
290781	TI	TLV5604ID	SOIC-16	A/D, 10-bit, 2.7-5.5V, 20MHz, 4-ch .....	5.95	4.75	4.49	
290790	TI	TLV5604IPW	TSSOP-16	A/D, 10-bit, 2.7-5.5V, 20MHz, 4-ch .....	5.95	4.75	4.49	
290853	TI	TLV5613IPW	TSSOP-20	A/D, 12-bit, 2.7-5.5V, 3.7μs, 1-ch .....	5.95	4.95	3.75	
290933	TI	TLV5614CPW	TSSOP-16	A/D, 12-bit, 2.7-5.5V, 5.5-2.0μs, 4-ch .....	10.95	9.95	8.95	
296690	ADI	AD7226KN	DIP-20	A/D, 8-bit, 2-12.5V, 4js, 4-ch .....	9.95	8.95	7.95	
1783887	ADI	AD7398BRUZ*	TSSOP-16	A/D, 12-bit, quad serial In .....	15.95	13.95	11.95	
290052	TI	TLC7524CN	DIP-16	A/D, 8-bit, 5-15V, 100ns .....	2.75	2.49	2.05	
287380	ADI	AD9760AR	SOIC-28	A/D, 10-bit, 3-5V, 125Msps .....	5.95	3.95	2.95	



## Tech Closeout Center

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## Op Amps (Continued)

\* Web Code: WAD

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	* Order in multiples of 10		
					1	10	100
33216	◆	TL074CN*	DIP-14	Low noise JFET quad op amp.	\$.39	\$.35	\$.29
1063935	TI	TL074CDE4R	SOIC-14	Low noise JFET input op amp	.25	.22	.15
278328	TI	TLC074CN	DIP-14	Wide-band, high-output drive	1.75	1.49	1.15
213057	◆	TL081ACP	DIP-8	JFET input, low offset w/ control	.59	.49	.39
33232	◆	TL081CP	DIP-8	JFET input, offset control	.35	.29	.25
214076	◆	TL082ACP	DIP-8	JFET input, low offset	.49	.45	.39
253198	◆	TL082BCP	DIP-8	JFET input op amp., lowest offset	.49	.39	.35
33241	◆	TL082CP*	DIP-8	JFET input dual op amplifier	.35	.29	.25
760034	TI	TL082CDR	SOIC-8	JFET input op amplifier	.25	.22	.15
214084	◆	TL084ACN	DIP-14	JFET input op amplifier	.45	.39	.35
193535	◆	TL084CD	SOIC-14	JFET input quad op amplifier	.39	.35	.29
33267	◆	TL084CN*	DIP-14	JFET input quad op amplifier	.29	.25	.22
242000	◆	TLC274ACN	DIP-14	Quad precision op amp, low offset	.59	.49	.45
245665	◆	LM301AH	TO-5/8	Operational amplifier	3.95	3.49	3.25
212151	◆	LM301AN*	DIP-8	Operational amplifier	.39	.35	.29
245673	◆	LM308AH	TO-5/8	Precision op amplifier	4.95	4.49	3.95
23464	◆	LM308N*	DIP-8	Precision op amplifier	6.95	6.25	5.49
23608	NSC	LM318N	DIP-8	Precision high speed	.89	.79	.69
212169	◆	LM324AN	DIP-14	Low power quad, impr. offset	.35	.29	.25
86721	◆	LM324D	SOIC-14	Low power quad op amplifier	*	.12	.09
23683	◆	LM324N**	DIP-14	Low power quad op amplifier	.29	.25	.19
826671	TI	LM324NE4R	DIP-14	Quad op amplifier	.29	.25	.22
838284	NSC	LM324N/NOPB	DIP-14	Low power quad op amplifier	.89	.79	.59
22904	◆	LF347N	DIP-14	Quad JFET input (wide band)	.49	.45	.35
23915	◆	LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.35	.29	.25
22912	◆	LF351N	DIP-8	BIFET op amplifier	.39	.35	.29
22939	◆	LF353N*	DIP-8	Dual BIFET (comp w/ TL082CP)	.35	.29	.25
901853	TI	LF353P	DIP-8	JFET input dual, C-temp	.59	.49	.39
22971	NSC	LF356N*	DIP-8	JFET input (wide band)	.99	.79	.59
22998	◆	LF357N	DIP-8	JFET input (wide band)	2.95	2.75	2.49
120862	◆	LM358AN	DIP-8	Low power dual (improved 358N)	.25	.22	.19
839332	NSC	LM358AN/NOPB	DIP-8	Low power dual op amplifier	1.09	.99	.79
23966	◆	LM358N*	DIP-8	Low power dual op amplifier	.25	.22	.19
839367	NSC	LM358N/NOPB	DIP-8	Low power dual op amplifier	.99	.79	.59
1944732	ST	LS404CN	DIP-14	High performance quad	.49	.39	.25
23018	◆	LF411CN*	DIP-8	Low offset drift JFET input	.99	.89	.69
835500	NSC	LF411CN/NOPB	DIP-8	Low-offset, low-drift JFET input	1.25	.99	.79
23026	◆	LF412CN*	DIP-8	Low offset drift JFET input dual	1.75	1.55	1.25
193640	◆	LF412C	SOIC-8	Low offset drift JFET input dual	.49	.35	.25
106681	◆	LF442CN	DIP-8	Dual low power JFET input	1.25	1.05	.85
119992	◆	LF444CN	DIP-14	Quad low power JFET input	1.75	1.49	1.05
276613	MAX	MAX474CSA	SOIC-8	Dual 10MHz single supply op amp	3.95	2.95	2.49
311239	MCH	MCP6S21-I/P	DIP-8	1-ch PGA low-gain sgle-ended rail-to-rail I/O	1.49	1.15	.95
311255	MCH	MCP6S22-I/P	DIP-8	2-ch PGA low-gain sgle-ended rail-to-rail I/O	1.59	1.39	1.19
313314	ADI	AD626AR	SOIC-8	Low-cost sgle supply diff amplifier	4.95	4.49	3.95
311221	MCH	MCP6S28-I/P	DIP-8	8-ch prog. low-gain sngle-ended rail-to-rail I/O	2.49	2.45	2.25
143976	◆	LMC660CN	DIP-14	CMOS quad operational amplifier	1.75	1.45	.95
120926	◆	LM675T	TO-220/5	Power op amplifier	5.49	4.75	4.25
24491	◆	LM733CN	DIP-14	Differential amplifier	.89	.79	.69
24521	◆	LM741CH	TO-5/8	Op amplifier	4.95	4.49	3.95
24539	◆	LM741CN**	DIP-8	Op amplifier	.29	.25	.22
24540	◆	LM741CNR	DIP-8	Op amplifier	.25	.22	.19
840763	NSC	LM741CN/NOPB	DIP-8	General purpose op amplifier	.79	.59	.45
835022	TI	UA741CP	DIP-8	General purpose op amplifier	.29	.25	.22
830549	TI	UA741CPE4R	DIP-8	General purpose op amplifier	.29	.25	.22
24563	◆	LM747CN	DIP-14	Dual 741 op amplifier	.79	.69	.59

\*10 pcs./ \*\*20 pcs. in Linear cabinet kit, pg 16     Blue Part No. = Limited Quantity Available

## Op Amps (Continued)

\* Web Code: WAD

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	* Order in multiples of 10		
					1	10	100
239222	◆	LTC1001CN8	DIP-8	Precision op amplifier	\$2.75	\$2.49	\$2.09
239169	◆	LT1013CP	DIP-8	Dual precision op amplifier	1.15	.95	.79
239177	◆	LT1014DN	DIP-14	Quad precision op amplifier	3.75	3.25	2.59
23131	◆	LM1458N*	DIP-8	Dual op amplifier	.35	.29	.25
903509	TI	MC1458P	DIP-8	Dual general purpose op amplifier	.39	.29	.25
823525	TI	TLC2272AIP	DIP-8	Advanced LinCMOS® rail-to-rail	1.49	1.39	1.29
1085819	TI	TLC2272CP	DIP-8	Advanced LinCMOS® rail-to-rail	.99	.89	.79
1944839	◆	TLV2772CP	DIP-8	Hi slew rate r-r output, w/ shutdown	.99	.89	.79
121005	◆	LM2904N	DIP-8	Low power dual op amplifier	.25	.22	.15
121116	◆	CA3080E	DIP-8	Op transconductance amplifier	3.95	3.75	3.49
12183	◆	CA3130E	DIP-8	CMOS op amplifier	1.19	1.09	.89
12204	◆	CA3140E	DIP-8	Bi-MOS op amplifier	.99	.89	.79
24168	◆	LM3900N	DIP-14	Quad amplifier	.75	.65	.55
278150	TI	THS4032CD	SOIC-8	100MHz low noise hi-speed amp	4.95	4.25	3.95
278176	TI	THS4082CD	SOIC-8	175MHz LP hi-speed amplifier	3.95	3.59	3.25
29356	◆	RC4136N	DIP-14	Quad op amp. (XR4136)	.89	.79	.69
251125	◆	MC4558CN	DIP-8	Wide bandwidth dual bipolar	.29	.25	.22
908246	TI	RC4558DR	SOIC-8	Dual general purpose op amplifier	*	.12	.09
27385	◆	NE5532*	DIP-8	Dual low noise op amplifier	.29	.25	.22
252970	◆	NE5532AP	DIP-8	Dual lower noise op amplifier	.65	.55	.45
27406	◆	NE5534	DIP-8	Low noise op amplifier	.65	.55	.45
302121	NSC	LM6132AIM	SOIC-8	Dual LP r-r in/out, 10MHz	2.95	2.05	1.75
302076	NSC	LM6134BIN	DIP-14	Quad LP r-r in/out, 10MHz	3.49	2.95	2.05
302068	NSC	LM6142AIM	SOIC-8	Dual r-r in/out, 17MHz	3.49	2.95	2.25
301989	NSC	LM6152ACM	SOIC-8	Dual r-r in/out, 75MHz GBW	3.49	2.95	2.49
301874	NSC	LM6181IN	DIP-8	100mA, 100MHz current feedback	2.95	2.49	1.95
301436	NSC	LMC6442IM	SOIC-8	Dual ppwr r-r output single supply	1.95	1.75	1.25
301364	NSC	LMC6442IN	DIP-8	Dual ppwr r-r output single supply	1.95	1.75	1.35
126906	NSC	LMC6462AIN	DIP-8	ppwr r-r I/O CMOS op amp., lower VOS	2.95	2.49	1.75
126893	NSC	LMC6482AIN	DIP-8	CMOS dual r-r I/O, lower VOS	2.05	1.55	1.29
301356	NSC	LMC6484AIN	DIP-14	CMOS quad r-r I/O, lower VOS	4.25	3.25	2.69
301751	NSC	LM7171BIM	SOIC-8	Hi speed hi output current volt feedback	2.95	1.55	1.25
804682	MAX	ICL7621DCSA	SOIC-8	Dual low power op amplifier	1.95	1.49	1.25
1789816	ADI	AD8022ARMZ	MSOP-8	Dual hi speed low noise	3.95	3.75	3.35
192532	NSC	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.75	1.49	1.19
192533	NSC	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.85	1.59	1.29
1944775	ON	MC33174VP	DIP-14	Single supply 3V-44V op amplifier	.49	.35	.25
871586	ON	MC33204P	DIP-14	Low voltage, rail-to-rail	.79	.59	.35
251061	ON	MC34072P	DIP-8	Single supply 3V-44V op amplifier	.79	.69	.59

\*10 pcs. in Linear cabinet kit, pg 16     Blue Part No. = Limited Quantity Available

Linear Series continued on next page



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# Linear Series & Temperature Sensors

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## Linear Series (Continued)

Part No.	Mfr.	Product No.	Pkg/Pins	Description	* Order in multiples of 10			* Web Code: FAD
					1	10	100	
245446	MAX	MAX301CPE	DIP-16	Precision dual hi speed analog switch	\$2.95	\$2.25	\$1.95	
23739	NSC	LM334Z	TO-92/3	Adjust current source	.69	.59	.49	
23771	NSC	LM336Z-2.5	TO-92/3	Voltage reference (2.5V)	.39	.35	.29	
297676	NSC	LM336BZ-5.0	TO-92/3	5V voltage reference diode	.95	.85	.75	
120889	◆	LM385BZ-2.5	TO-92/3	Volt. ref. diode (2.5V ±1.5%)	.45	.39	.35	
24117	◆	LM385Z-1.2	TO-92/3	Micropwr volt. ref. diode (1.2V)	.49	.39	.29	
23000	◆	LF398N	DIP-8	Sample and hold circuit	1.49	1.19	.89	
309833	◆	DG403DJ	DIP-16	Dual SPDT & SPDT analog switch	2.95	2.75	2.49	
272161	◆	DG407DJ	DIP-28	Dual 8-ch multiplexer/demux	5.49	4.95	4.49	
256532	◆	DG408DJ	DIP-16	1 of 8 multiplexer/demultiplexer	1.95	1.75	1.49	
288243	ADI	ADG409BN	DIP-16	Dual 4-ch multiplexer/demultiplexer	3.49	3.25	2.95	
243643	◆	DG411DJ	DIP-16	Quad SPST (NC) analog sw.	.99	.79	.69	
256516	◆	DG412DJ	DIP-16	Quad SPST (NO) analog sw.	1.49	1.25	.85	
279540	◆	DG419DJ	DIP-8	Dual SPST (NO/NC) analog switch	1.75	1.55	1.45	
33347	◆	TL431CLP	TO-92/3	Program precision reference	* .15	.12		
1798261	ADI	ADG451BRZ	SOIC-16	Analog switch	3.95	2.75	2.49	
33355	◆	TL494CN	DIP-16	Contrl circuit pulse-width-modulated	.39	.29	.25	
840579	NSC	LM555CM/NOPB	SOIC-8	Timer	.99	.79	.59	
27422	◆	LM555CN**	DIP-8	Timer (MC1455P/NE555V)	.25	.22	.17	
27423	◆	LM555CN	DIP-8	Timer (MC1455P/NE555V)	.25	.22	.19	
840608	NSC	LM555CN/NOPB	DIP-8	Timer	1.25	.85	.65	
126797	◆	LMC555CN*	DIP-8	CMOS timer	.79	.69	.59	
841571	NSC	LMC555CN/NOPB	DIP-8	CMOS timer	1.49	1.15	.85	
890091	ST	NE555N	DIP-8	Gen. purp. single bipolar timer	.29	.25	.22	
904085	TI	NE555P	DIP-8	Precision timer	.35	.25	.22	
761272	TI	TLC555CP	DIP-8	LinCMOS™ timer, C-temp	.65	.55	.49	
24328	◆	LM556N*	DIP-14	Dual 555 timer	.29	.25	.22	
24329	◆	LM556N	DIP-14	Dual 555 timer	.35	.29	.25	
904114	TI	NE556N	DIP-14	Dual precision timer	.49	.45	.39	
27473	ST	NE564N	DIP-16	High freq. phase locked loop	2.75	2.49	2.25	
24352	◆	LM565N	DIP-14	Phased locked loop	2.95	2.75	2.49	
24395	◆	LM567CN	DIP-8	Tone decoder	.99	.89	.79	
246650	NSC	LMC567CN	DIP-8	Tone decoder (CMOS)	1.49	1.25	.95	
27490	ST	NE571N	DIP-16	Comander, subscriber	4.49	4.25	3.95	
288155	ADI	AD584KN	DIP-8	Prog volt. ref. 11mV tol.	8.95	7.95	6.95	
918436	INS	SA612AD/01	SOIC-8	Dbl balanced mixer & oscillator	1.95	1.49	1.25	
115174	ADI	AD620AN	DIP-14	Low-cost instrument amp.	6.49	5.25	4.49	
1798982	ADI	ADG623BRMZ	SOIC-10	Analog switch	1.95	1.75	1.49	
1781312	ADI	AD633ANZR	DIP-8	Analog multiplier	7.45	6.25	5.95	
115182	ADI	AD633JN	DIP-8	Low-cost analog multiplier	6.95	6.25	5.35	
316515	MCH	TC962CPA	DIP-8	High current charge pump DC-DC con.	1.95	1.75	1.49	
239265	◆	LT1004CZ-2.5	TO-92	2.5V, micropower volt reference	.39	.35	.25	
1742161	LTC	LTC1258CS8-2.5	MSOP-8	1.4A, 500kHz step down switch reg.	5.95	5.75	5.25	
118578	◆	MC1495L	DIP-14	Linear 4 quadrant multiplier	9.95	8.95	7.95	
23211	◆	LM1496N	DIP-14	Balanced mod/demodulator	.69	.59	.49	
1944821	◆	P1803AC	TO-220	Balanced three-chip sidactor	1.49	1.25	.99	
34278	◆	ULN2003A*	DIP-16	Hi-volt/curr. darl. transistor array	.25	.22	.19	
1147178	TI	ULN2003AN	DIP-16	Hi-volt/curr. darl. transistor array	.49	.45	.35	
193826	◆	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.45	.35	.29	
34294	◆	ULN2004AN	DIP-16	Hi-volt/curr. darl. transistor array	.39	.35	.29	
700630	TI	ULN2004AN	DIP-16	Hi-volt/curr. darlington trans. array	.49	.45	.35	
34972	EXR	XR2206CP	DIP-16	Monolithic function generator	5.49	4.95	4.49	
34999	◆	XR2211	DIP-14	FSK demodulator/tone decoder	1.95	1.75	1.49	
280073	TI	TLE2426CLP	TO-92/3	Rail splitter prec. virtual ground	1.39	1.29	1.19	
34315	◆	ULN2803A*	DIP-18	Hi-volt/curr. darl. transistor array	.45	.39	.35	
34316	◆	ULN2803A	DIP-18	Hi-volt/curr. darl. transistor array	.55	.49	.45	
700664	TI	ULN2803AN	DIP-18	Darlington transistor array, I-temp	1.15	.95	.85	

\*10 pcs./ \*\*20 pcs. in Linear kit, right

\*MUX/DEMUXs Available Online — Enter Web Code RAB

## Linear Series (Continued)

Part No.	Mfr.	Product No.	Pkg.	Description	* Web Code: FAD		
					1	10	100
123625	NSC	LM2907N-8	DIP-8	Frequency to volt converter	\$1.75	\$1.35	\$1.09
23317	NSC	LM2907N	DIP-14	Frequency to volt converter	1.75	1.55	1.15
23350	NSC	LM2917N-8	DIP-8	Freq. to volt conv. w/ zener	1.75	1.45	1.15
23341	NSC	LM2917N-14	DIP-14	Freq. to volt conv. w/ zener	1.75	1.45	1.25
12079	◆	CA3046N	DIP-14	NPN transistor array	1.09	.99	.89
12159	◆	CA3086N	DIP-14	NPN transistor array	1.95	1.75	1.49
1797605	ADI	ADG3123BRUZ	TSSOP-20	8-channel CMOS logic	4.95	4.25	3.55
31974	◆	SG3524N	DIP-16	Regulating pulse width modulator	.65	.55	.45
25275	◆	MC4044P	DIP-14	Frequency phase detector	6.95	5.95	5.25
29372	EXR	XR4151CP-F	DIP-8	Volt to frequency converter	1.75	1.55	1.35
698509	ST	M48Z02-150PC1	DIP-24	5V, 150ns, 16k zeropower™ SRAM	7.95	7.49	6.75
1950868	CAL	CWB5341	DIP-14	Dual mono CMOS/DMOS analog sw.	.99	.89	.79
1944759	NXP	SAA6579	DIP-16	Radio data system demodulator	.39	.35	.25
312135	TI	TPS6735IP	DIP-8	Fixed neg 5V 200mA invert DC/DC con.	1.95	1.75	1.25
288163	ADI	AD7501KN	DIP-16	8 channel analog multiplexer	9.95	8.95	6.95
51140	◆	7555IPA	DIP-8	CMOS timer	.39	.35	.29
51174	◆	7660CPA	DIP-8	CMOS volt convr (+5 to ±5V)	.75	.59	.49
316646	◆	ICL7662CPA	DIP-8	Volt convr., 20Vin, 4.5-20V out	2.75	2.25	2.15
1083476	TI	TL7712ACP	DIP-8	Supply voltage supervisor	.49	.39	.25
316531	MCH	TC9400COD	SOIC-14	Volt freq/freq volt converter	5.95	4.59	3.95
25021	ON	MC14411P	DIP-24	Bit rate frequency generator	4.95	4.49	4.25
25064	ON	MC14490P	DIP-16	Hex contact bounce eliminator	4.25	3.95	3.49
118586	ON	MC14515P	DIP-28	Parallel input PLL freq synthesizer	5.95	5.49	4.95
1054684	TI	SN754410NE	DIP-16	Quad half-H drivers	1.95	1.75	1.55

SAVE \$65



84988

## Temperature Sensors

Part No.	Mfr.	Product No.	Pkg/Pins	Description	* Web Code: WAN		
					1	10	100
107094	NSC	LM34CZ	TO-92/3	Prec temp sensor (-40° to +230°F)	\$5.95	\$5.49	\$5.25
193480	NSC	LM34DM	SOIC-8	Prec temp sensor (-55° to 300°F)	1.95	1.49	1.19
155192	NSC	LM34DZ	TO-92/3	Prec temp sensor (+32° to +212°F)	2.25	1.95	1.49
107107	NSC	LM35CZ	TO-92/3	Prec temp sensor (-40° to 110°C)	4.75	3.75	2.95
192217	NSC	LM35DT	TO-220/3	Prec temp sensor (-55° to 150°C)	2.49	1.95	1.55
155740	NSC	LM35DZ	TO-92/3	Prec temp sensor (0° to +100°C)	1.49	1.19	.89
301604	NSC	LM74CIBP-5	µSMD-5	12-bit + sign digital temp sensor	1.95	1.75	1.25
301621	NSC	LM74CIM-3	SOIC-8	12-bit + sign digital temp sensor	1.49	1.25	.95
282028	NSC	LM135H	TO-46	Precision temperature sensor	6.95	5.95	5.49
120820	◆	LM335AZ	TO-92/3	Precision temperature sensor	.79	.69	.59
23755	◆	LM335Z	TO-92/3	Volt mode temperature sensor	.75	.59	.55
241939	ADI	AD590JH	TO-52/3	Two terminal IC temp transducer	6.95	6.25	5.25
1780571	ADI	AD592ANZ	TO-92/3	Two terminal IC temp transducer	4.75	3.85	3.25
313306	ADI	AD594AQ	DIP-14	Thermocouple amp for iron-constantan	11.75	10.59	10.25
313293	ADI	AD595AQ	DIP-14	Thermocouple amp for chromel-alumel	13.95	12.95	11.95
302551	DAL	DS18S20	TO-92/3	High-prec. 1-wire digital thermo	3.49	2.59	1.95

\*Pressure Sensors Available Online — Enter Web Code JBV

Part No. Mfr. Part No. Pkg. Description 1 10 100

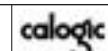
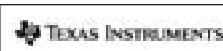
1718743 A1302EUA-T SIP-3 Continuous-time ratiometric linear sensor \$1.29 \$1.19 \$1.09

Part No. Mfr. Part No. Pkg. Description 1 10 100

1718743 A1302EUA-T SIP-3 Continuous-time ratiometric linear sensor \$1.29 \$1.19 \$1.09

\*ADI = Analog Devices | CAL = Calogic | DAL = Dallas | EXR = EXAR Corp | LTC = Linear Tech | MAX = Maxim | MCH = Microchip | NSC = National | NXP = NXP/Philip | ON = ON Semi | ST = ST Micro | TI = Texas Ins | ◆ Varies

\* RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Digital Potentiometers

\* Web Code: JBP

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
1778367	AD5282BRU200	TSSOP-16	Dual, 256 position, digital pot .....	\$3.95	\$3.49	\$3.15
2044373	MAX5402EUA <sup>®</sup>	8uMAX	256-Tap, uPot, low drift .....	2.55	2.45	2.35
241744	MCP41010-I/P <sup>®</sup>	DIP-8	10kΩ, 256 steps, SPI digital pot .....	1.75	1.65	1.55
241752	MCP42010-I/P <sup>®</sup>	DIP-14	10kΩ, 256 steps, 2-ch SPI digital pot .....	2.09	1.95	1.59

## Voltage Regulators

\* Web Code: TAC

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
23499	♦	LM309K	TO-3/2	5V, 1A (0°C to +125°C) .....	\$5.95	\$5.49	\$4.95
192268	NSC	LM317AT	TO-220/3	3-terminal adj. (1.2V-37V) .....	1.49	1.25	.89
837898	NSC	LM317AT/NOPB <sup>®</sup>	TO-220/3	3-term. 1.5A output adj pos, I-temp 1.55 .....	1.35	.95	
898359	NSC	LM317EMP	SOT-223/4	3-term 1A output adj pos C-temp .....	.69	.55	.45
192276	NSC	LM317HVT	TO-220/3	3-terminal adj. (1.2V-57V) .....	2.25	1.75	1.35
837927	NSC	LM317HVT/NOPB <sup>®</sup>	TO-220/3	3-term. 1A output adj pos, C-temp .....	2.95	2.49	1.95
23544	♦	LM317K	TO-3/2	1.5A adj. positive (1.2V-37V) .....	2.65	2.39	2.05
23552	♦	LM317LZ	TO-92/3	100mA adj. positive (1.2V-37V) .....	.29	.25	.22
898543	NSC	LM317LZ/NOPB <sup>®</sup>	TO-92/3	Adjustable, 100mA positive .....	.69	.59	.49
23579	♦	LM317T <sup>**</sup>	TO-220/3	1.5A adj. positive (1.2V-37V) .....	.29	.25	.22
23580	♦	LM317T <sup>®</sup>	TO-220/3	1.5A adj. positive (1.2V-37V) .....	.35	.29	.25
898800	NSC	LM317T/NOPB <sup>®</sup>	TO-220/3	Adjustable, 1.5A positive .....	1.25	1.05	.85
23667	♦	LM323K	TO-3/2	5V, 3A positive .....	3.95	3.75	3.49
23798	♦	LM337K	TO-3/2	1.5A/3 term adj. neg. reg. .....	3.49	3.25	2.75
296841	♦	LM337LZ	TO-92/3	3-terminal adj. neg. .....	.79	.59	.45
23819	♦	LM337T <sup>*</sup>	TO-220/3	1.5A/adj. neg. (-1.2V-37V) .....	.45	.35	.29
899520	NSC	LM337T/NOPB <sup>®</sup>	TO-220/3	1.5A adjustable negative .....	1.95	1.75	1.49
23835	♦	LM338K	TO-3/2	5A adj. positive (1.2V-32V) .....	5.95	5.49	4.95
192284	NSC	LM338T	TO-220/3	5A adjustable .....	1.95	1.49	1.25
838621	NSC	LM338T/NOPB <sup>®</sup>	TO-220/3	5A adjustable positive .....	2.25	1.75	1.35
900017	NSC	LM340T-5.0	TO-220/3	5V, 1A positive, I-temp .....	1.25	1.05	.85
23931	♦	LM350K	TO-3/2	3A/3 term. adj. pos. (1.2V-33V) .....	5.49	4.95	3.95
23940	♦	LM350T	TO-220/3	3A adjustable power .....	.69	.59	.49
276517	MAX	MAX637ACSA	SOIC-8	Preset/adj output CMOS invert switch reg .....	4.95	4.49	2.95
24467	♦	LM723CN <sup>*</sup>	DIP-14	Voltage regulator (2V-37V) .....	.35	.29	.25
301719	♦	LM723H	TO-5/10	2V - 37V, 150mA adj. .....	4.49	3.95	3.75
298071	MAX	MAX755CSA	SOIC-8	-5V/adj. output, invert current mode PWM reg .....	2.95	2.49	1.49
107166	NSC	LM2936Z-5.0	TO-92/3	Ultra-low quiescent current 5V .....	2.25	1.75	1.39
51246	♦	7805K	TO-3/2	5V, 1A positive (LM340K-5) .....	2.49	2.25	1.95
51262	♦	7805T <sup>**</sup>	TO-220/3	5V, 1A positive (LM340T-5) .....	.29	.25	.19
51263	♦	7805T <sup>®</sup>	TO-220/3	5V, 1A positive (LM340T-5) .....	.29	.25	.22
924570	ST	L7805ACV <sup>®</sup>	TO-220/3	5V, 1.5A positive .....	.29	.25	.22
924633	ST	L7805CV <sup>®</sup>	TO-220/3	5V, 1.5A positive .....	.45	.35	.29
902071	NSC	LM7805CT	TO-220/3	5V, 1A positive .....	1.09	.99	.89
786138	FSC	LM7805CT <sup>®</sup>	TO-220/3	5V, 1A positive, I-temp .....	.35	.29	.25
876221	ON	MC7805CT	TO-220/3	5V, 1A positive, C-temp .....	.45	.39	.35
876248	ON	MC7805CTG <sup>®</sup>	TO-220/3	5V, 1A positive, C-temp .....	.35	.29	.25
51182	♦	78L05 <sup>**</sup>	TO-92/3	5V, 100mA positive .....	.25	.22	.17
51183	♦	78L05 <sup>®</sup>	TO-92/3	5V, 100mA positive .....	.25	.22	.19
889428	ST	L78L05ACZ <sup>®</sup>	TO-92/3	5V, 100mA positive .....	.35	.25	.19
973831	FSC	LM78L05ACZ <sup>®</sup>	TO-92/3	5V, 100mA positive, I-temp .....	* .19	.15	
1303290	NSC	LM78L05ACZ/NOPB <sup>®</sup>	TO-92/3	3-terminal 5V, 100mA positive .....	.69	.55	.45
192233	♦	78M05	TO-220/3	5V, 500mA positive .....	.25	.22	.19
51297	♦	7806T	TO-220/3	6V, 1A positive (LM340T-6) .....	.35	.29	.25
51300	♦	7808T <sup>*</sup>	TO-220/3	8V, 1A positive (LM340T-8) .....	.35	.29	.25
876352	ON	MC7809CT <sup>®</sup>	TO-220/3	9V, 1A pos., C-temp .....	.29	.25	
192225	♦	78L09ACZ	TO-92/3	9V, 100mA positive .....	.25	.22	.17

\* 10 pcs. / \*\* 20 pcs. included in Linear kit, pg 16

## Voltage Regulators (Continued)

\* Web Code: TAC

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	* Order in multiples of 10		
					1	10	100
51318	♦	7812K	TO-3/2	12V, 1A pos. (LM340K-12) .....	\$2.15	\$1.95	\$1.75
51334	♦	7812T <sup>**</sup>	TO-220/3	12V, 1A pos. (LM340T-12) .....	.25	.22	.19
51335	♦	7812T <sup>®</sup>	TO-220/3	12V, 1A pos. (LM340T-12) .....	.35	.29	.25
889305	ST	L7812CV <sup>®</sup>	TO-220/3	12V, 1.5A positive .....	.29	.25	.22
902127	NSC	LM7812CT	TO-220/3	12V, 1A positive .....	1.05	.95	.85
51203	♦	78L12*	TO-92/3	12V, 100mA positive .....	.25	.22	.17
902389	NSC	LM78L12ACZ	TO-92/3	3-terminal 12V positive .....	.39	.35	.29
192241	♦	78M12	TO-220/3	12V, 500mA positive .....	.25	.22	.17
51369	♦	7815K	TO-3/2	15V, 1A pos. (LM340K-15) .....	2.49	2.25	1.95
51377	♦	7815T*	TO-220/3	15V, 1A pos. (LM340T-15) .....	.29	.25	.22
902151	NSC	LM7815CT	TO-220/3	3-terminal 15V .....	1.29	1.19	1.09
51414	♦	7824T	TO-220/3	24V, 1A positive (LM340T-24) .....	.25	.22	.19
1131504	TI	UA78M33CKCSE3 <sup>®</sup>	TO-220/3	3.3V, 500mA, fixed po. regulator .....	.69	.59	.45
51457	♦	7905T*	TO-220/3	-5V, 1A neg. (LM320T-5) .....	.29	.25	.22
51422	♦	79L05	TO-92/3	-5V, 100mA negative .....	.25	.22	.17
51481	♦	7912T*	TO-220/3	-12V, 1A neg. (LM320T-12) .....	.29	.25	.22
51431	♦	79L12	TO-92/3	-12V, 100mA neg., volt reg .....	* .12	.09	
51502	♦	7915T*	TO-220/3	-15V, 1A neg. (LM320T-15) .....	.29	.25	.22
316945	MOT	MC34063AP1	DIP-8	1.5 step-up/down invert sw reg .....	.49	.39	.35
260259	NTE	NTE960	TO-220	+5V, 1A, fixed .....	1.75	1.67	1.57

\* 10 pcs. / \*\* 20 pcs. included in Linear kit, pg 16

## Simple Switcher Voltage Regulators

\* Web Code: VAX

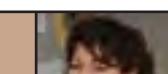
Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10
1742524	LTC	LT1959CS8#PBF <sup>®</sup>	SOIC-8	4.5A, 500kHz step-down, C-temp .....	\$7.95	\$6.95
156566	♦	LM2574N-5	DIP-8	5V step-down regulator .....	1.49	1.25
279603	NSC	LM2575HVT-12	TO-220	1A step down V-reg, high Vin range .....	1.95	1.75
279638	NSC	LM2575HVT-5.0	TO-220/5	1A step-down V-reg, hi Vin range .....	3.49	2.95
894817	NSC	LM2576T-5.0/LB03	TO-220/5	Simple switcher 3A step down, I-temp .....	1.95	1.25
192381	NSC	LM2576HVT-5.0	TO-220/5	3A step down V-reg, high Vin range .....	5.49	4.49
192372	NSC	LM2576HVT-ADJ	TO-220/5	3A step-down V-reg, high Vin range .....	4.95	4.49
245569	♦	LM2576T-5.0	TO-220/5	3A step-down voltage regulator .....	2.25	1.75
120977	♦	LM2576T-ADJ	TO-220/5	3A step-down voltage regulator .....	1.45	1.05
300898	NSC	LM2586S-12	TO-263/7	3A flyback regulator with shutdown .....	4.95	4.25
300871	NSC	LM2586S-5.0	TO-263/7	3A flyback regulator with shutdown .....	4.95	4.25
300821	NSC	LM2586S-ADJ	TO-263/7	3A flyback regulator with shutdown .....	4.95	3.95
300919	NSC	LM2586T-ADJ	TO-220	3A flyback regulator with shutdown .....	5.49	4.95
300847	NSC	LM2588T-ADJ <sup>®</sup>	TO-220	5A flyback regulator with shutdown .....	6.95	5.75
300732	NSC	LM2592HVT-3.3	TO-220	2A step down voltage regulator .....	4.95	4.49
300695	NSC	LM2594N-3.3	DIP-8	0.5A step down voltage regulator .....	2.95	2.49
310391	NSC	LM2595S-5.0	TO-263/5	3A step down voltage regulator .....	2.95	2.25
300265	NSC	LM2595S-ADJ	TO-263/5	1A step down voltage regulator .....	2.95	2.25
290642	NSC	LM2596T-5.0	TO-220/7	3A step down voltage regulator .....	2.95	2.49
290394	NSC	LM2599S-ADJ	TO-263/7	3A step down voltage regulator .....	4.49	3.75
312397	NSC	LM2636MTC	TSSOP-20	5-bit prog. synchronous buck reg .....	2.49	2.05
290749	NSC	LM2651MTC-3.3	TSSOP-16	1.5A high eff. synch switching reg .....	2.95	2.25
312389	NSC	LM2653MTC-ADJ	TSSOP-16	1.5A high eff. synch switching reg .....	2.95	2.49
290888	NSC	LM2674M-ADJ	SOIC-8	Adj voltage high eff. switcher .....	2.95	2.75
291012	NSC	LM2675N-ADJ	DIP-8	1A step down voltage reg power conv .....	2.95	2.25

♦ Blue Part No. = Limited Quantity Available

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\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

# Voltage Regulators & IC Sockets

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## Low Drop-Out Voltage Regulators

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
299743	NSC	LM1084IT-ADJ	TO-220/3	5A low dropout adj. pos. ....	\$2.49	\$1.95	\$1.59
299735	NSC	LM1084IT-3.3	TO-220/3	5A low dropout 3.3V pos. ....	2.49	1.95	1.59
2100523	◆	AMS1085CD	TO-252	3A low dropout adj. pos. ....	.89	.79	.59
282757	◆	LT1085CT	TO-220/3	3A low dropout adj./fixed pos. ....	1.25	.95	.75
192305	◆	LM1086CT-3.3	TO-220/3	1.5A low dropout pos. (3.3V) ....	1.15	.85	.65
192313	◆	LM1086CT-5.0	TO-220/3	1.5A low dropout pos. (5V) ....	1.75	1.49	1.25
251782	NSC	LM1117MPX-ADJ	SOT-223/3	800mA low dropout linear ....	.89	.69	.59
242114	◆	LM1117T-3.3	TO-220/3	800mA, 3.3V, LDO ....	.89	.79	.69
242115	NSC	LM1117T-3.3 NOPB	TO-220/3	800mA, 3.3V, LDO ....	1.45	1.19	.85
897188	NSC	LM2937ET-3.3	TO-220/3	500mA, 3.3V LDO, I-temp ....	1.75	1.45	1.09
297810	NSC	LM2937ET-5.0	TO-220/3	500mA, 5V LDO ....	1.75	1.45	.95
107182	◆	LM2940CT-5	TO-220/3	5V LDO reg. (max. 45Vin) ....	1.35	1.05	.75
897381	NSC	LM2940CT-5.0 NOPB	TO-220/3	1A, 5V LDO positive ....	1.55	1.25	.95
192495	NSC	LM2940CT-12	TO-220/3	12V LDO reg. (max. 45Vin) ....	1.45	1.15	.85
837054	NSC	LM2940T-5.0 NOPB	TO-220/3	1A, 5V LDO, I-temp ....	1.45	1.15	.85
121064	◆	LM2941CT	TO-220/5	1A LDO adjustable (45Vin) ....	1.65	1.39	1.15
1944880	◆	LP2950ACN	TO-92/3	100mA 5V LDO reg. ....	.29	.25	.19
121101	◆	LP2950ACZ-5.0	TO-92/3	Low power LDO 5V low % reg. ....	.69	.59	.49
266757	◆	LP2950CZ-5.0	TO-92/3	100mA low pwr. LDO ....	.69	.59	.49
121110	◆	LP2951ACP	DIP-8	Adjustable µ power volt-reg. ....	.49	.39	.25
1315492	ON	LP2951CN-3.0	DIP-8	3V, 100mA LP LDO (I-temp) ....	.39	.29	.25
192524	◆	LM3940IT-3.3	TO-220/3	1A LDO for 5V to 3.3V ....	1.75	1.45	1.05
1326133	NSC	LP2985M5-5.0 NOPB	SOP-5	150mA, 5V upower low noise ultra reg. ....	.49	.39	.35
1119791	TI	TPS75701KTTT	TO-263	Fast transient response 3A, I-temp ..	4.49	4.25	3.75
700496	TI	TPS78625KTTT	TO-263	Ultra low noise, hi-PSRR 1.5A	2.95	2.25	1.95

◆ Blue Part No. = Limited Quantity Available

★ Power Drivers & Modules Available Online — Enter Web Code REK

★ Switching Regulators Available Online — Enter Web Code DEN

## AMP DIP Low-Profile IC Sockets

Economy Ladder Style			Order in multiples of 10
• Housing: glass filled thermoplastic, black		683104	
• Dual wipe		526205	
• Contacts: phosphor bronze tin plating		683198	
A: 15µ" gold	B: 60µ" tin		

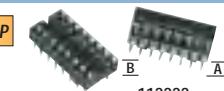
Part No.	Mfr.	Part No.	Pos.	Plating	Width (ins.)	10	100	500
683091		1-390261-1R	6	B	0.3	\$.13	\$.10	\$.09
526299		390261-2	8	B	0.3	.12	.09	.07
683104		1-390261-2R	8	B	0.3	.13	.10	.08
837679		2-640463-4	8	A	0.3	.69	.59	.49
526192		390261-3	14	B	0.3	.12	.09	.08
683112		1-390261-3R	14	B	0.3	.13	.10	.09
526205		390261-4	16	B	0.3	.17	.11	.09
683121		1-390261-4R	16	B	0.3	.19	.12	.10
524584		2-640358-4	16	A	0.3	.89	.69	.59
526213		390261-5	18	B	0.3	.15	.14	.10
683139		1-390261-5R	18	B	0.3	.16	.15	.11
526221		390261-6	20	B	0.3	.16	.15	.13
683147		1-390261-6R	20	B	0.3	.17	.16	.14
683163		1-390261-8R	24	B	0.3	.22	.20	.17
683198		1-390262-1R	24	B	0.6	.25	.21	.19
526248		390261-9	28	B	0.3	.24	.22	.20
683171		1-390261-9R	28	B	0.3	.25	.23	.21
526256		390262-2	28	B	0.6	.22	.19	.17
683201		1-390262-2R	28	B	0.6	.24	.22	.19
526272		390262-5	40	B	0.6	.32	.29	.25
683227		1-390262-5R	40	B	0.6	.35	.33	.27

\* CA = Circuit Assembly | JVP = Jameco ValuePro | NSC = National Semiconductor | ON = ON Semi | TI = Texas Instruments | ◆ Manufacturer Varies

◆ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Dual Wipe Solder Tail Low-Profile IC Sockets

• Contact current: 1A	★ Web Code: WAP	
• Contact resistance: less than 5mΩ		
• Dielectric withstanding voltage: 300V		
• Insulation resistance: greater than 1000MΩ		
• Thru-hole lead length: .140" (A)	• Body height: .188" (B)	112222



Order in multiples of 10

Part No.	*Mfr.	Product No.	Pins	Width (ins.)	1	10	100
112193	JVP	6LPD	6	0.3	\$.13	\$.10	\$.08
51571	◆	8LPD	8	0.3	.12	.09	.07
112206	JVP	8LPD	8	0.3	.13	.10	.08
37162	◆	14LP*	14	0.3	.12	.09	.08
689936	◆	ED14DT	14	0.3	.12	.09	.08
112214	JVP	14LPD	14	0.3	.13	.10	.09
37372	◆	16LP*	16	0.3	.10	.08	.06
37373	JVP	16LPD	16	0.3	.17	.11	.09
112222	JVP	16LPD	16	0.3	.19	.12	.10
38113	◆	18LP*	18	0.3	.14	.12	.09
689952	◆	ED18DT	18	0.3	.14	.12	.09
112231	JVP	18LPD	18	0.3	.16	.15	.11
38607	◆	20LP+	20	0.3	.12	.10	.08
112248	◆	20LPD	20	0.3	.16	.15	.13
38608	JVP	20LPD	20	0.3	.17	.16	.14
112256	◆	22SLPD	22	0.3	.17	.16	.14
39132	JVP	22LPD	22	0.4	.17	.16	.14
39378	◆	24SLPD	24	0.3	.21	.19	.16
112282	JVP	24SLPD	24	0.3	.22	.20	.17
112264	◆	24LPD	24	0.6	.23	.19	.17
112266	JVP	24LPD	24	0.6	.25	.21	.19
689961	◆	ED28DT	28	0.3	.24	.22	.20
112299	◆	28SLPD	28	0.3	.24	.22	.20
112300	JVP	28SLPD	28	0.3	.25	.19	.15
40300	◆	28LP*	28	0.6	.17	.13	.11
112272	◆	28LPD	28	0.6	.22	.19	.17
40301	JVP	28LPD	28	0.6	.24	.22	.19
137621	JVP	32SLPD	32	0.3	.29	.25	.22
689979	◆	ED32DT	32	0.6	.27	.23	.19
112301	JVP	32LPD	32	0.6	.29	.25	.22
41110	◆	40LP*	40	0.6	.23	.17	.13
41111	◆	40LPD	40	0.6	.32	.29	.25
112311	JVP	40LPD	40	0.6	.35	.33	.27
137622	◆	42LPD	42	0.6	.35	.33	.27
112326	JVP	64LDP	64	0.9	.45	.39	.35

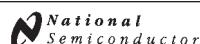
\* Single wipe

## 2 & 3 Level Wire Wrap IC Sockets

• Contact current: 1A	• Contact resistance: <5mΩ	
• Sleeve material: brass		
• Dielectric withstanding voltage: 300V		
• Material: beryllium copper or phosphor bronze		
• Insulation resistance: greater than 1000MΩ		
• Insulator: glass-filled polyester or glass-filled polyphenylene sulfide		
• Thru-hole lead length: .438" (L2); .638" (L3)	• Body height: .300" (A)	37234

CA

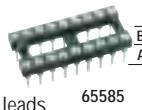
Part No.	*Mfr.	Product No.	Pins	Width (ins.)	1	10	100
37218	CA	14TWW2R	14	0.3	\$2.25	\$1.95	\$1.75
37234	CA	14WW2R	14	0.3	3.25	2.95	2.75
196841	◆	14TWW3	14	0.3	1.95	1.75	1.25
37437	CA	16TWW2R	16	0.3	2.75	2.49	2.25
37480	CA	16WW2R	16	0.3	3.49	3.25	2.95
75380	CA	20TWW2R	20	0.3	3.49	3.25	2.95
38675	CA	20WW2R	20	0.3	4.25	3.95	3.49
75416	CA	24TWW2	24	0.6	3.49	3.25	2.95
39395	CA	24WW2R	24	0.3	2.95	2.65	2.39
40353	CA	28WW2R	28	0.6	5.95	5.39	4.75
41180	CA	40TWW2R	40	0.6	6.95	5.95	4.95



## Machine Tooled Solder Tail Low-Profile IC Sockets

- Contact plating: gold
- Contact current: 3A
- Contact resistance: less than 5mΩ
- Dielectric withstand voltage: 300V<sub>RMS</sub>
- Insulation resistance: greater than 1000MΩ
- Material: beryllium copper or phosphor bronze
- Thru-hole lead length: .177" (A)
- Tin-plated leads
- Body height: .117" (B)

**\*Web Code: GBA**

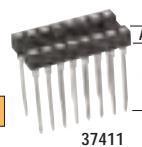


Part No.	*Mfr.	Product No.	Pins	Width (in.)	1	10	100
167004	JVP	6MLPT	6	0.3	\$39	\$29	\$19
51626	JVP	8MLP	8	0.3	.49	.45	.29
37197	JVP	14MLP	14	0.3	.65	.55	.39
37402	JVP	16MLP	16	0.3	.75	.59	.45
65585	JVP	18MLP	18	0.3	.89	.75	.55
38623	JVP	20MLP	20	0.3	.85	.69	.49
192209	◆	22MLP	22	0.4	1.25	1.09	.89
39386	◆	24MLP	24	0.3	.95	.79	.59
39351	JVP	24MLP	24	0.6	1.09	.89	.65
652359	◆	24MLP-GOLD	24	0.6	1.09	.89	.65
114412	JVP	28SMLP	28	0.3	1.09	.89	.65
40328	◆	28MLP+	28	0.6	1.19	.95	.69
223002	◆	324SMLP	32	0.4	1.25	.95	.79
105381	JVP	32MLP	32	0.6	1.35	1.09	.89
662629	◆	40MLP	40	0.6	1.35	1.09	.89
41136	JVP	40MLP	40	0.6	1.69	1.39	.95
42059	◆	48MLP	48	0.6	1.89	1.59	1.29
200707	◆	64MLP	64	0.9	2.95	2.49	1.95

## 3 Level Machine Tooled Wire Wrap IC Sockets

- Contact plating: gold
- Sleeve material: brass
- Contact resis.: <5mΩ
- Tin-plated leads
- Material: beryllium copper or phosphor bronze
- Dielectric withstand voltage: 300V<sub>RMS</sub>
- Insulation resistance: greater than 1000MΩ
- Body height: .115" (A)
- Thru-hole lead length: .586" (L)
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide

**JAMECO EXCLUSIVE**



Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100
94474	8MSWW3	8	0.3	\$1.49	\$1.35	\$1.19
62051	14MSWW3	14	0.3	1.75	1.55	1.39
37411	16MSWW3	16	0.3	2.25	1.95	1.75
94482	18MSWW3	18	0.3	2.25	1.95	1.75
38632	20MSWW3	20	0.3	2.49	2.25	1.95
185324	22MSWW3	22	0.3	2.49	2.25	1.95
105372	24MSWW3	24	0.3	2.75	2.49	2.25
313656	24MSWW3	24	0.6	2.75	2.49	2.25
94491	24MSWW3	24	0.6	2.95	2.75	2.49
200716	283MSWW3	28	0.3	3.25	2.95	2.75
40337	28MSWW3	28	0.6	3.25	2.95	2.75
117058	32MSWW3	32	0.6	3.49	3.19	2.79
94503	40MSWW3	40	0.6	3.95	3.55	3.19
200723	48MSWW3	48	0.6	3.95	3.55	3.19

## Wire Wrap IC Socket I.D. Markers

**\*Web Code: YAG**

- Material: plastic
- Can easily write location, part number or function
- Quick identification of pin numbers
- Slips onto socket before wrapping



Part No.	Mfr. Part No.	Pins	Width (in.)	1	10	100
51561	ID-8-100	8	0.3	\$59	\$49	\$39
37145	ID-14-100	14	0.3	.69	.59	.45
38586	ID-20-50	20	0.3	.95	.75	.49
40299	ID-28-25	28	0.6	1.09	.89	.55

\* JVP = Jameco ValuePro | OST = On Shore Technology | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

## PLCC Thru-Hole Sockets

**\*Web Code: YAH**

- Solder tail allows through-hole board patterns in .100" grid
- Thru-hole lead length: .125"
- Accepts JEDEC type "A" plastic lead chip (0.05" centers)

71969



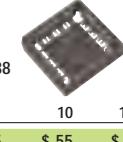
Part No.	Cross Ref. No.	Pins	Body Height (in.)	1	10	100
71263	G1P428	28	.375	\$65	\$55	\$49
71811	G1P32	32	.375	.69	.59	.55
71618	G1P444	44	.375	.75	.65	.59
72442	G1P452	52	.375	.85	.75	.69
71969	G1P468	68	.375	.89	.79	.75
71977	G1P484	84	.375	.95	.85	.79

## PLCC SMT Sockets

**\*Web Code: EAR**

- Housing: high temp. thermoplastic, UL94V-0
- Contacts: phosphor bronze/tin lead
- Contact resis.: 200MΩ max.
- Insulation resis.: 5000MΩ min.

152688



Part No.	*Mfr.	Product No.	Pins	Voltage Rate	1	10	100
2004822	◆	850-20SMT-T	20	250V, 1A	\$65	\$55	\$49
2005286	◆	850-28SMT-T	28	250V, 1A	.69	.59	.55
2004831	◆	850-32SMT-T	32	250V, 1A	.75	.65	.59
152688	JVP	850-44-PPST	44	250V, 1A	.79	.69	.65
2005294	◆	850-52SMT-T	52	250V, 1A	.89	.79	.69
1954771	◆	850-68SMT-T	68	250V, 1A	.95	.85	.75
307951	JVP	850-68-PPST	68	250V, 1A	.59	.55	.49
152696	OST	EDO68PLCZ-SM-N	68	250V, 1A	.59	.55	.49
2004849	◆	850-84SMT-T	84	250V, 1A	1.19	.95	.79

## AMP PGA Socket

- Intel Celeron, PIII chip compatibility
- LCP cover material, UL94V-0 natural
- Open frame style
- Low profile
- 19 x 19 grid
- Contacts: copper alloy/gold

Part No.	Mfr. Part No.	Pins	1	10	100
838735	2-916783-2	370	\$5.49	\$5.09	\$4.75

## SIMM Vertical Sockets

**\*Web Code: WAL**

- Locking tabs
- Tinned contacts
- Memory module sockets
- Keyed mounting posts

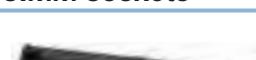
100302

Part No.	*Mfr.	Product No.	Description	1	10	100
100302	JVP	2000-1X30S	Single x 30-pin, vertical	\$1.49	\$1.35	\$1.19
1954754	◆	ES1533	Single x 72-pin, vertical	1.95	1.75	1.49
1954746	◆	ES1538	Dual x 30-pin, vertical	2.29	1.95	1.75
1954762	◆	ES1536	Dual x 72-pin, vertical	2.49	2.25	1.95

## molex® .050" (1.27mm) Pitch SIMM Sockets

- 72 positions
- Left polarization
- Contact: phosphor bronze
- PCB retention: press-fit plastic peg
- Contact plating (plating thickness): gold (0.76μm; 30μ")
- Tin/lead (5μm; 200μ")

669791



669791: Right polarization: gold contact plating

Part No.	Mfr. Part No.	Description	1	10
669791	15-82-0778	Vertical	\$3.95	\$3.49
670750	15-82-0649	40° low profile	4.29	3.85
670784	15-82-1538	Right angle	6.49	5.85

Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

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# IC Sockets & Transistors

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## molex® .050" (1.27mm) DDR DIMM Socket

- 25° low profile
- Voltage key: 2.5V, left
- Plating tail: tin, lead free
- Contact: copper alloy
- Contact plating: .38µm (15µ") gold

Part No.	Mfr. Part No.	Position	1	10
668511	87623-2001R	184	\$6.95	\$5.95

## molex® .050" (1.27mm) DIMM Sockets

- 168 positions
- Contact: phosphor bronze
- Contact plating: gold over palladium nickel
- 662813/662821/662830/662848: Beveled metal pin, forklock PCB retention
- 668529/668537: Press-fit plastic peg PCB retention

Part No.	Mfr. Part No.	Description	1	10
662813	71736-0001R	DRAM, 3.3V	\$3.95	\$3.49
662821	71736-0002R	DRAM, 5.0V	3.95	3.49
662830	71736-0005R	Unbuffered, 5.0V	3.95	3.49
662848	71736-0006R	SDRAM, 3.3V	3.95	3.49
668529	71251-0001R	DRAM, 3.3V	3.95	3.49
668537	71251-0016R	SDRAM, 3.3V	3.95	3.49

\* Voltage References Available Online — Enter Web Code TBD

\* Hot Swap Controllers Available Online — Enter Web Code JAX

## Transistors

★ Web Code: FEN

Part No.	*Mfr.	Product No.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ I <sub>c</sub> )	* Order in multiples of 10		
							1	10	100
26462	♦	MPSA06	TO-92	NPN	80	100k @ .01A .... *	\$0.05	\$0.04	
26489	♦	MPSA13*	TO-92	NPN	30	5k @ .01A .... *	.06	.05	
210593	♦	MPSA14	TO-92	NPN	30	20k @ .10A .... *	.05	.04	
210681	♦	MPSA18	TO-92	NPN	45	500 @ .001A .... *	.07	.06	
33021	♦	TIP29A	TO-220	NPN	60	15 @ 1A .... .35	.29	.25	
33048	♦	TIP31A*	TO-220	NPN	60	10 @ 3A .... .29	.25	.22	
179354	FSC	TIP31C	TO-220	NPN	100	10 @ 3A .... .29	.25	.22	
890568	ST	TIP35C*	TO-218	NPN	100	25 @ 1.5A .... 1.09	.99	.89	
33081	♦	TIP41A	TO-220	NPN	60	15 @ 3A .... .45	.39	.35	
179371	♦	TIP41C*	TO-220	NPN	100	15 @ 3A .... .35	.29	.25	
178546	♦	MPSA42	TO-92	NPN	30	40 @ .03A .... *	.07	.06	
288631	♦	TIP48	TO-220	NPN	300	30 @ .3A .... .35	.29	.25	
32977	♦	TIP102*	TO-220	NPN	100	1k @ 3A .... .39	.35	.29	
179240	FSC	TIP102	TO-220	NPN	100	1k @ 3A .... .45	.39	.35	
1094723	FSC	TIP102R	TO-220	NPN	100	1k @ 3A .... .49	.45	.39	
32993	♦	TIP120*	TO-220	NPN	60	1k @ 3A .... .35	.29	.25	
32994	♦	TIP120*	TO-220	NPN	60	1k @ 3A .... .39	.35	.29	
179291	FSC	TIP120	TO-220	NPN	60	1k @ 3A .... .39	.35	.29	
288585	♦	TIP121	TO-220	NPN	80	1k @ .5A .... .29	.25	.15	
120416	♦	TIP122	TO-220	NPN	100	1k @ 3A .... .35	.25	.22	
179303	FSC	TIP122	TO-220	NPN	100	1k @ 3A .... .39	.29	.25	
260558	NTE	NTE123AP	TO-92	NPN	40	— ..... 1.19	1.09	.99	
890445	ST	TIP142*	TO-218	NPN	100	1k @ 0.5A ... 1.05	.95	.85	
273199	NTE	NTE272	TO-202	NPN	—	— ..... 10.95	9.95	8.95	
254810	♦	BC337	TO-92	NPN	45	100 @ .10A .... *	.07	.05	
211529	♦	MJE340	TO-225	NPN	300	30 @ .05A .... .29	.25	.22	
261091	NTE	NTE473	TO-39	NPN	—	— ..... 3.95	3.49	3.25	
254799	♦	BC547C	TO-92	NPN	45	600 @ .002A .... *	.05	.04	
254781	♦	BC548B	TO-92	NPN	30	110 @ .002A .... *	.08	.06	
784790	FSC	BC549B*	TO-92	NPN	30	110 @ 2mA .... *	.05	.03	
916238	NXP	BC868T/R*	SOT-89	NPN	20	85 @ 500mA ... *	.15	.12	
800568	MOT	MPS918	TO-92	NPN	15	20 @ .003A .... *	.08	.07	
38228	♦	2N2219A	TO-39	NPN	40	100 @ .15A .... .45	.39	.35	
26446	♦	MPO2222	DIP-14	NPN	40	100 @ .15A .... 2.95	2.75	.249	
28628	♦	PM2222**	TO-92	NPN	30	100 @ .15A .... *	.07	.06	
38236	♦	2N2222A*	TO-18	NPN	40	100 @ .15A .... .45	.39	.35	
38237	♦	2N2222A*	TO-18	NPN	40	100 @ .15A .... .49	.45	.39	
213938	♦	MMBT2222A	SOT-23	NPN	40	100 @ .15A .... *	.07	.05	
210673	♦	MPS2222A	TO-92	NPN	40	40 @ .50A .... *	.05	.04	

\* 10 pcs./\*\* 100 pcs. in Transistor cabinet kit, pg 21

♦ Blue Part No. = Limited Quantity Available

## Transistors (Continued)

★ Web Code: FEN

Part No.	*Mfr.	Product No.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ I <sub>c</sub> )	* Order in multiples of 10		
							1	10	100
178511	♦	PN2222A	TO-92	NPN	40	100 @ .15A .... *	\$0.05	\$0.03	
178512	♦	PN2222A*	TO-92	NPN	40	100 @ .15A .... *	.07	.05	
803268	ON	PN2222AG*	TO-92	NPN	40	50 @ .001A .... *	.09	.07	
38295	♦	2N3053*	TO-39	NPN	40	25 @ .15A .... .55	.49	.45	
38308	♦	2N3055+*	TO-3	NPN	60	15 @ 10A .... .89	.79	.69	
211406	♦	2N3055A	TO-3	NPN	60	20 @ 4A .... 1.75	1.45	1.15	
211385	♦	TIP3055	TO-218	NPN	60	5 @ .001A .... .85	.75	.69	
25857	♦	MJE3055T	TO-220	NPN	60	20 @ 4A .... .39	.35	.29	
194415	♦	2N3439	TO-39	NPN	350	40 @ .02A .... .75	.65	.55	
209242	♦	2N3771	TO-3	NPN	40	15 @ 15A .... 1.95	1.75	1.49	
140151	♦	2N3773	TO-3	NPN	140	15 @ 8A .... 1.95	1.49	1.25	
38359	♦	2N3904**	TO-92	NPN	40	100 @ .01A .... *	.05	.03	
38360	♦	2N3904*	TO-92	NPN	40	100 @ .01A .... *	.05	.03	
178597	FSC	2N3904	TO-92	NPN	40	100 @ .01A .... *	.05	.03	
783421	FSC	2N3904*	TO-92	NPN	40	100 @ .01A .... *	.05	.03	
94967	♦	MMBT3904	SOT-23	NPN	40	100 @ .01A .... *	.06	.04	
1944927	FSC	PN4275	TO-92	NPN	15	35 @ .01A .... *	.09	.07	
38421	♦	2N4401*	TO-92	NPN	40	100 @ .15A .... *	.05	.04	
211490	♦	2N4923	TO-225	NPN	—	80 @ 1A .... 45	.45	.39	
1201380	FSC	PN4953	TO-92	NPN	30	150 @ .01A .... *	.05	.04	
310666	♦	2N5038	TO-3	NPN	150	20 @ 12A .... 4.75	4.49	3.95	
140373	♦	2N5179	TO-72	NPN	12	25 @ .003A .... 1.09	.99	.89	
1945081	FSC	2N5306	TO-92	NPN	25	7000 @ .002A .... *	.05	.04	
194600	♦	2N6059	TO-3	NPN	100	750 @ 6A .... 1.95	1.75	1.49	
924300	ST	2N6284*	TO-3/2	NPN	100	750 @ 10A .... 3.25	2.95	2.59	
140353	♦	2N6488	TO-220AB	NPN	80	20 @ 5A .... .79	.65	.49	
1945031	FSC	MPS6515	TO-92	NPN	25	250 @ .002A .... *	.05	.04	
194618	♦	2N6547	TO-3	NPN	400	12 @ 5A .... 4.49	4.25	3.75	
194626	♦	2N6678	TO-3	NPN	400	8 @ 15A .... 6.95	6.25	5.49	
33030	♦	TIP30A	TO-220	PNP	60	15 @ 1A .... .39	.35	.29	
33064	♦	TIP32A*	TO-220	PNP	60	10 @ 3A .... .35	.29	.25	
181841	♦	TIP32C	TO-220	PNP	100	10 @ 3A .... .29	.25	.22	
890592	ST	TIP36C*	TO-218	PNP	100	25 @ 1.5A .... 1.05	.95	.85	
33101	♦	TIP42A	TO-220	PNP	60	15 @ 3A .... .39	.35	.29	
139580	♦	TIP42C	TO-220	PNP	100	15 @ 3A .... .35	.29	.25	
32985	♦	TIP106	TO-220	PNP	80	1k @ 3A .... .59	.49	.35	
179258	♦	TIP107	TO-220	PNP	100	1k @ 3A .... .45	.39	.35	
288526	♦	TIP115	TO-220	PNP	60	1k @ 1A .... .35	.29	.25	
288542	♦	TIP117	TO-220	PNP	100	1k @ 1A .... .29	.25	.19	
33013	♦	TIP125	TO-220	PNP	60	1k @ 3A .... .29	.25	.22	
179320	♦	TIP127	TO-220	PNP	100	1k @ 3A .... .35	.29	.25	
260611	NTE	NTE159	TO-92	PNP	80	— ..... 1.25	1.05	.95	
1215986	♦	BC327*	TO-92	PNP	-45	100 @ .10A .... *	.15	.12	
1085500	FSC	MPS750RL	TO-92	PNP	40	75 @ .05A .... .25	.22	.15	
194378	♦	2N2905A	TO-39/3	PNP	-40	75 @ -.01A .... .59	.49	.45	
924297	ST	2N2907*	TO-39/3	PNP	-40	75 @ -.01A .... .59	.49	.45	
26454	♦	MPO2907	DIP-14	PNP	40	100 @ .15A .... 1.95	1.75	1.49	
28644	♦	PN2907**	TO-92	PNP	40	100 @ .15A .... *	.05	.03	
211342	♦	MPS2907A	TO-92	PNP	60	100 @ .15A .... *	.07	.06	
178520	♦	PN2907A	TO-92	PNP	60	100 @ .15A .... *	.05	.03	
38279	♦	2N2907A*	TO-18	PNP	60	100 @ .15A .... .45	.39	.35	
211502	♦	MJ2955	TO-3	PNP	60	20 @ 4A .... .99	.89	.79	
25831	♦	MJE2955T	TO-220	PNP	60	20 @ 4A .... .39	.35	.29	
1944986	FSC	PN3644	TO-92	PNP	45	100 @ .01A .... *	.06	.04	
38375	♦	2N3906**	TO-92	PNP	40	100 @ .01A .... *	.05	.03	
178618	FSC	2N3906	TO-92	PNP	40	100 @ .01A .... *	.05	.04	
1944943	FSC	PN4122	TO-92	PNP	40	150 @ 1mA .... *	.12	.07	
1944951	FSC	PN4355	TO-92	PNP	60	100 @ 1mA .... *	.15	.12	
38447	♦	2N4403*	TO-92	PNP	40	100 @ .15A .... *	.05	.04	
2095411	♦	—	—	Transistor mtg. pads TO-92/98/18/72	—	Transistor mtg. pads TO-92/98/18/72	.05	.04	

\*10 pcs./\*\*100 pcs. in Transistor cabinet kit, pg 21



## Transistors (Continued)

\* Web Code: FEN

Part No.	*Mfr.	Product No.	Pkg.	Desc.	V <sub>CEO</sub>	Min. ( $\beta_{FE}$ @ I <sub>C</sub> )	* Order in multiples of 10		
							1	10	100
1944935	FSC	PN4917	TO-92	PNP	30	150 @ 1mA	.....*	\$12	\$07
210649	◆	2N5401	TO-92	PNP	150	60 @ .01A	.....*	.11	.09
253438	◆	2N5884	TO-3	PNP	80	4 @ 25A	2.75	2.49	1.75
194571	◆	2N6042	TO-220	PNP	100	1k @ 3A	.65	.55	.45
194597	◆	2N6052	TO-3	PNP	100	750 @ 6A	2.49	2.25	1.95
261121	NTE	NTE6410	TO-92	PNP	30	—	4.95	4.49	3.95
885697	ON	2N6520RLRA	TO-92	PNP	350	20 @ 1mA	.....*	.12	.09

## Transistor Assortment Cabinet Kit

**Includes:** 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit

**10 each:** 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000, MJE3055T, MPF102, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120

**100 each:** 2N3904, 2N3906, PN2222, PN2907

Part No.	Description	Wt. (lbs.)	1	5
82595	560 pcs. (20 types) NPN, PNP transistor kit	5.1	\$69.95	\$59.95
130374	Refill for 82595 (560 pcs.)	0.4	54.95	49.95

## J-FETs

Please Note: Manufacturer may vary

\* Web Code: JAD

Part No.	Product No.	Pkg.	Channel	BV <sub>GS</sub> @ I <sub>G(μA)</sub>	I <sub>DSS</sub> (mA) @ V <sub>Ds</sub>	Order in multiples of 10		
						10	100	1000
26403	MPF102*	TO-92	N	-25 @ -10	2 @ 15	.....\$10	\$09	\$055
210622	2N3819	TO-92	N	-25 @ -1	20 @ 15	.....09	.07	.06
1945006	PN4093	TO-92	N	-40 @ 1	15 @ 20	.....09	.07	.04
253948	2N5457	TO-92	N	-25 @ -10	1 @ 15	.....08	.07	.05
253921	2N5458	TO-92	N	-25 @ -10	2 @ 15	.....09	.07	.06
38527	2N5951*	TO-92	N	-30 @ -1	7 @ 15	.....09	.07	.06
253913	2N5460	TO-92	P	40 @ 10	-1 @ -15	.....13	.11	.09

\* 10 pcs. in Transistor cabinet kit, above

## N-Channel & P-Channel MOSFETs

\* Web Code: GCJ

Part No.	*Mfr.	Product No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. DS Current		
						1	10	100
669871	◆	IRFZ24N	TO-220AB	N	55	17A	\$89	\$79
669927	◆	IRFBG30	TO-220AB	N	1000	3.1A	1.59	1.39
669935	◆	IRFZ34N	TO-220AB	N	55	26A	.85	.75
669943	◆	IRLZ34N	TO-220AB	N	55	30A	.79	.69
669951	◆	IRFZ44N	TO-220AB	N	55	49A	.95	.85
669978	◆	IRFZ46N	TO-220AB	N	55	53A	.99	.89
669986	◆	IRFZ48N	TO-220AB	N	55	64A	1.05	.95
256031	◆	BS170	TO-92	N	60	0.5A (max.)	.....*	.10
670071	◆	IRFR220N	TO-252AA	N	200	5A	.49	.39
670098	◆	IRFP250N	TO-247AC	N	200	30A	1.75	1.35
670101	◆	IRFP260N	TO-247	N	200	50A	2.75	1.95
871092	FSC	FDV303N	SOT-23	N	25	0.5A†	.....*	.12
871017	FSC	FDN337N	SuperSOT-3	N	30	10A	.25	.15
670135	◆	IRFP450	TO-247	N	500	14A	2.05	1.85
670143	◆	IRFP460	TO-247	N	500	20A	2.49	2.25
209234	◆	IRF510	TO-220	N	100	5.6A	.79	.59
209226	◆	IRF520	TO-220	N	100	10A	.89	.69
209058	◆	IRL520N	TO-220	N	100	10A	.65	.45
210500	◆	IRF530	TO-220	N	100	14A	.79	.69

† DMOS FET

## N-Channel & P-Channel MOSFETs (Continued)

\* Web Code: GCJ

Part No.	*Mfr.	Product No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. DS Current		
						1	10	100
670151	◆	IRF530N	TO-220AB	N	100	17A	.....\$85	\$75
670160	◆	IRL530N	TO-220AB	N	100	17A	.....89	.79
210518	◆	IRF540	TO-220	N	100	27A	.....75	.65
670178	◆	IRF540NS	D2PAK	N	100	33A	.....69	.59
670194	◆	IRL540N	TO-220AB	N	100	30A	.....1.25	1.15
210526	◆	IRF620	TO-220	N	200	6.0A	.....45	.39
210534	◆	IRF630	TO-220	N	200	9.0A	.....45	.39
210542	◆	IRF640	TO-220	N	200	18A	.....79	.69
670223	◆	IRF640NS	D2PAK	N	200	18A	.....59	.49
670231	◆	IRF644	TO-220AB	N	250	14A	.....79	.69
210551	◆	IRF730	TO-220	N	400	5.5A	.....75	.65
210569	◆	IRF740	TO-220	N	400	10A	.....65	.55
210577	◆	IRF820	TO-220	N	500	4.0A	.....59	.49
210585	◆	IRF830	TO-220	N	500	4.5A	.....55	.45
184719	◆	IRF840	TO-220	N	500	8.0A	.....85	.75
787798	FSC	RFP12N10L	TO-220AB	N	100	12A	.....69	.59
670274	◆	IRF1310N	TO-220AB	N	100	36A	.....79	.69
670282	◆	IRF1405	TO-220AB	N	55	169A	.....2.45	2.15
279460	◆	VN2222LL	TO-92	N	60	0.75A	.....35	.29
874875	FSC	NDT3055L	SOT-223	N	60	10A	.....29	.25
1559640	INR	IRF3205PBF	TO-220	N	55	110A	.....1.75	1.55
618089	◆	IRF3205	TO-220	N	55	110A	.....1.55	1.35
670354	◆	IRF3415	TO-220AB	N	150	43A	.....1.75	1.55
618071	◆	IRL3705	TO-220	N	55	89A	.....1.25	1.05
670371	◆	IRFPS37N50A	Super-247	N	500	36A	.....6.25	5.49
255038	◆	SI4420DY	SOIC-8	N	30	30A	.....1.25	.85
875051	FSC	RFP50N06	TO-220AB	N	60	50A	.....95	.75
119423	◆	2N7000	TO-92	N	60	0.3A	.....*	.07
178669	FSC	2N7000*	TO-92	N	60	0.2A	.....*	.06
783594	FSC	2N7000	TO-92	N	60	0.75A	.....*	.07
140169	◆	2N7002	SOT-23	N	60	0.5A	.....*	.05
670397	◆	IRF7401	SOIC-8	N	20	10A	.....59	.49
256057	◆	BS250	TO-92	P	-45	0.25A (max.)	.....49	.45
871113	FSC	FDV304P	SOT-23	P	-25	-1A†	.....*	.12
1944901	◆	ZVP3306A	TO-92	P	-60	-0.4A†	.....39	.29
920288	FSC	FOA36P15-NL	TO-3P	P	-150	-18A	.....1.49	1.25
870971	FSC	FDC640P	Super SOT-6	P	-20	-20A	.....25	.22
670442	◆	IRF4905	TO-220AB	P	-55	-74A	.....1.49	1.35
1559851	INR	IRF4905PBF	TO-220AB	P	-55	-74A	.....1.75	1.55
670477	◆	IRF5210	TO-220AB	P	-100	-40A	.....1.75	1.55
670485	◆	IRF5305	TO-220AB	P	-55	-31A	.....99	.89
670531	◆	IRF7404	SOIC-8	P	-20	-7.7A	.....29	.25
670549	◆	IRF7416	SOIC-8	P	-30	-10A	.....49	.45
670581	◆	IRF9234N	TO-220AB	P	-55	-1.8A	.....89	.79
670629	◆	IRF9520	TO-220AB	P	-100	6A	.....65	.55
670741	◆	IRF9530	TO-220AB	P	-100	-12A	.....59	.49
670637	◆	IRF9530N	TO-220AB	P	-100	-14A	.....99	.89
670645	◆	IRF9540N	TO-220AB	P	-100	-23A	.....1.25	1.05
670653	◆	IRF9640	TO-220AB	P	-200	-11A	.....1.15	.95
255089	◆	SI4963DY	SOIC-8	Dual P	20	-20A	.....99	.79
670661	◆	IRF7103	SOIC-8	Dual N	50	3A	.....39	.35
670670	◆	IRF7303	SOIC-8	Dual N	30	5.3A	.....35	.29

\* 10 pcs. in Transistor cabinet kit, above left

† DMOS FET

Blue Part No. = Limited Quantity Available

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## International Rectifier Hexfet Power MOSFETs

\* Web Code: HDU

Part No.	Mfr. Part No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. DS Current	* Order in multiples of 10		
						1	10	100
1563147	IRFZ44NPBF	TO-220AB	N	55	49A	\$ .99	\$ .89	\$ .79
1951334	IRF530NS	D2-PAK	N	100	17A	.49	.35	.25
1560051	IRF540NPBF	TO-220AB	N	100	33A	1.75	1.45	1.29
1563690	IRLM5203TRPBF	Micro-3	P	-30	-3A	*	.15	.12
1559965	IRF5305PBF	TO-220AB	P	-55	-31A	1.05	.95	.85
1561619	IRF9640PBF	TO-220AB	P	-400	-11A	1.15	.95	.85

## Zener Diodes

\* Web Code: LAF

Part No.	*Mfr.	Product No.	Pkg.	V <sub>Znom</sub>	Pwr Dissipation	* Order in multiples of 10		
						1	10	100
36290	♦	1N751A	DO-35	5.1V	0.5W	*	\$ .05	\$ .03
178773	VSH	1N4732A	DO-41	4.7V	1W	*	.07	.05
36097	♦	1N4733A*	DO-41	5.1V	1W	*	.05	.04
36118	♦	1N4734A	DO-41	5.6V	1W	*	.07	.05
36126	♦	1N4735A	DO-41	6.2V	1W	*	.05	.04
178837	♦	1N4739A	DO-41	9.1V	1W	*	.05	.04
36169	♦	1N4742A*	DO-41	12V	1W	*	.05	.04
36185	♦	1N4744A	DO-41	15V	1W	*	.07	.05
782911	FSC	1N4748ATR	DO-41	22V	1W	*	.05	.03
782922	FSC	1N4749AT/R	DO-41	24V	1W	*	.05	.04
782962	FSC	1N4752ATR	DO-41	33V	1W	*	.05	.03
743488	FSC	1N5226B	DO-35	3.3V	0.5W	*	.05	.03
179039	♦	1N5230B	DO-35	4.7V	0.5W	*	.05	.02
179047	♦	1N5231B	DO-35	5.1V	0.5W	*	.05	.02
743541	♦	1N5237B	DO-35	8.2V	0.5W	*	.05	.04
179063	♦	1N5234B	DO-35	6.2V	0.5W	*	.05	.02
179135	♦	1N5250B	DO-35	20V	0.5W	*	.05	.02
804818	ON	1N5352BG	Surmetic-40	15V	5W	.35	.29	.25
804914	ON	1N5359BG	Surmetic-40	24V	5W	.29	.25	.22

\* 10 pcs. in Diode/Rectifier cabinet kit, pg 23

Blue Part No. = Limited Quantity Available

## Diodes

\* Web Code: PAK

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
1559164	INR	HFA08TB60PBF	TO-220AC	600VBR, 8A (Ultrafast)	\$ 1.09	\$ .99	\$ .89
915323	NXP	BAS40-04T/R	SOT-23	40V <sub>R</sub> , 120mA (Schottky)	*	.05	.03
915972	NXP	BAV99ST/R	SOT-363	85V <sub>RRM</sub> , 0.5A (Switching)	*	.07	.05
35941	♦	1N270*	DO-7	80PRV (Germanium)	.99	.89	.79
1538865	DDI	B340A-13F	SMA	40V <sub>RRM</sub> , 3A (Schottky)	.25	.22	.15
313402	♦	MMBD914	SOT-23	100V <sub>RRM</sub> , 0.2A (Switching)	*	.05	.02
312101	♦	MBR1100	DO-41	100PRV, 1.0A (Schottky)	.25	.22	.19
1556650	AVT	HSMS-2802-BLK	SOT-23	RF schottky barrier series, 70V	.49	.39	.35
1556879	AVT	HSMS-2825-BLK	SOT-143	RF schottky barrier series, 15V	.49	.39	.35
1585240	AVT	HSMS-2860-BLK	SOT-23	Forward voltage 350mV	.69	.55	.45
787940	FSC	RURP3020R	TO-220AC	200V <sub>RRM</sub> , 30A (Ultrafast)	2.75	2.49	2.25
36038	♦	1N4148**	DO-35	75PRV, 0.01A (Switching)	*	.05	.01
151247	♦	1N4148T	DO-35	75PRV, 0.01A (tape/reel)	*	.05	.01
179215	VSH	1N4148	DO-35	100PRV (Switching)	*	.05	.01
743710	ST	1N6263	DO-35	60V <sub>RRM</sub> , 50mA (Schottky)	*	.15	.09
1558946	INR	80SQ045	DO-204	40V <sub>RRM</sub> , 8A (Schottky)	.99	.89	.79

\* 10 pcs./\*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 23

## Small Signal Diodes

\* Web Code: JDQ

Part No.	*Mfr.	Product No.	Pkg.	Description	Order in multiples of 10		
					10	100	1000
655613	♦	BAY73	DO-35	125VRRM, 0.5A	.02	.01	.009
36311	♦	1N914**	DO-35	75PRV, 0.01A	.05	.02	.015
179207	VSH	1N914	DO-35	100PRV	.05	.02	.015
655269	♦	1N914A	DO-35	100VRRM, 0.2A	.05	.03	.02
655285	♦	1N916	DO-35	100VRRM, 0.2A	.05	.01	.007

\*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 23

## Transient Voltage Suppressors

\* Web Code QBQ

Part No.	Product No.	Watt	Pkg.	Min. Brkdw Volt. (V <sub>BR</sub> )	Stand-Off Voltage	* Order in multiples of 10		
						1	10	100
255847	P6KE24CA	600	DO-15	22.8	20.5	*	\$ .12	\$ .09
255775	P6KE33CA	600	DO-15	31.4	28.2	*	.15	.12
255741	P6KE39CA	600	DO-15	37.1	33.3	*	.12	.09
255951	P6K150CA	600	DO-15	143.0	128	*	.12	.09
255839	P6K250CA	600	DO-15	237.0	214	*	.15	.12
313234	SMCJ10CA	1500	DO-214AB	11.1	10	.29	.25	.22
313082	SMCJ58CA	1500	DO-214AB	64.4	58	.29	.25	.22
618118	1N5908	1500	DO-41	6.0	—	.25	.22	.15

## Triacs

\* Web Code: PAE

Part No.	*Mfr.	Product No.	Pkg.	Rating	1			10			100		
					1	10	100	1	10	100	1	10	100
160098	♦	HT-32	DO-35	27.37 V <sub>BO</sub> , 2A	\$ .25	\$ .22	\$ .19	—	—	—	—	—	—
31819	♦	SC146B	TO-220	200 V <sub>DRM</sub> , 10A (2N6342)	1.49	1.35	1.19	—	—	—	—	—	—
31827	♦	SC146M	TO-220	600 V <sub>DRM</sub> , 10A (2N6344)	1.95	1.75	1.49	—	—	—	—	—	—
1165690	BNS	TIC201M	TO-220	600 V <sub>DRM</sub> , 2.5A	—	—	—	—	—	—	—	—	—
160207	TEC	Q4008L4	TO-220AB	400 V <sub>DRM</sub> , 8A	1.19	1.09	.89	—	—	—	—	—	—
220492	TEC	Q4008R4	TO-220AB	400 V <sub>DRM</sub> , 8A	—	—	—	—	—	—	—	—	—
139336	TEC	Q4015L5	TO-220AB	400 V <sub>DRM</sub> , 15A	1.29	1.19	1.09	—	—	—	—	—	—
160143	TEC	Q4025L6	TO-220AB	400 V <sub>DRM</sub> , 25A	2.25	2.05	1.85	—	—	—	—	—	—
160215	TEC	Q6008L5	TO-220AB	600 V <sub>DRM</sub> , 8A	1.09	.99	.89	—	—	—	—	—	—
160231	TEC	Q6015L5	TO-220AB	600 V <sub>DRM</sub> , 15A	1.75	1.49	1.35	—	—	—	—	—	—
220505	TEC	Q6025R6	TO-220AB	600 V <sub>DRM</sub> , 25A	1.75	1.55	1.35	—	—	—	—	—	—
220521	TEC	Q6035P5	TO-3	600 V <sub>DRM</sub> , 35A	7.95	6.95	5.95	—	—	—	—	—	—
140425	♦	2N6071A	TO-225AA	200 V <sub>DRM</sub> , 4A	—	—	—	—	—	—	—	—	—

## SanRex® Fast-On Package Triac

\* Web Code: PCH

Part No.	Mfr. Part No.	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
658275	TG35F60R	Fast-On	Isolated 35A, 600V	\$ 8.95	\$ 7.95	\$ 6.95

† For cross-references to Littelfuse, ST, and ON Semi products refer to datasheets @ Jameco.com.

## Rectifiers

\* Web Code: LBD

Part No.	*Mfr.	Product No.	Pkg.	Rating	* Order in multiples of 10			
					1	10	100	
177754	TAT	T6A05L	T6L	50 PIV, 6A	.39	.35	.29	.25
177762	TAT	T6A10L	T6L	100 PIV, 6A	.49	.45	.39	.35
177818	TAT	T6A100L	T6L	1000 PIV, 6A	.69	.59	.49	.45
618062	♦	40CP0060	TO-247AC	60 V <sub>RRM</sub> , 40A (Schottky)	1.75	1.49	1.25	1.15
879991	ON	MURS140T3	SMB	400 @ 1A (Ultrafast)	—	.12	.09	.07
1645097	GI	1N645-1	DO-35	225 PRV, 15A	1.49	1.25	.99	.89
3592								



## Rectifiers (Continued)

★ Web Code: LBD

Part No.	*Mfr.	Product No.	Pkg.	Rating	* Order in multiples of 10			
					1	10	100	1000
36265	◆	1N5404*	DO-27A	400 PRV, 3A .....	*	\$10	\$08	\$07
36273	◆	1N5408+	DO-27A	1000 PRV, 3A .....	*	.10	.08	.07
177949	◆	1N5817	DO-204AL	20 PIV, 1A .....	*	.10	.08	.07
177957	◆	1N5818	DO-204AL	30 PIV, 1A .....	*	.10	.08	.07
177965	◆	1N5819	DO-204AL	40 PIV, 1A .....	*	.10	.08	.07
1538419	DDI	1N5819HW-7-F	SOD-123	40 V <sub>RRM</sub> , 1A (Schottky)	.29	.25	.22	.19
177973	◆	1N5820	DO-201AD	20 PIV, 3A .....	*	.15	.12	.10
177981	◆	1N5821	DO-201AD	30 PIV, 3A .....	*	.15	.12	.10
177990	◆	1N5822	DO-201AD	40 PIV, 3A .....	.25	.22	.15	.13
743701	ON	1N5822RLG	DO-201AD	40 PIV, 3A .....	.25	.22	.19	.17

\*10 pcs. in Diode/Rectifier cabinet kit, below

## Bridge Rectifiers

★ Web Code: MBD

Part No.	*Mfr.	Product No.	Pkg. <sup>†</sup>	Rating	* Order in multiples of 10			
					1	10	100	1000
1540421	◆	HD04-T	Mini DIP-4	400 V <sub>RRM</sub> , 0.8A .....	*	\$15	\$12	
178001	◆	DF005M	DF	50 V <sub>RRM</sub> , 1A .....	.29	.25	.22	
103000	◆	DF01M	DF	100 V <sub>RRM</sub> , 1A .....	.29	.25	.22	
103042	◆	DF02M	DF	200 V <sub>RRM</sub> , 1A .....	.29	.25	.22	
102971	◆	DF04M	DF	400 V <sub>RRM</sub> , 1A .....	.35	.29	.25	
103034	◆	DF06M	DF	600 V <sub>RRM</sub> , 1A .....	.29	.25	.22	
256575	◆	DF08M	DF	800 V <sub>RRM</sub> , 1.5A .....	.35	.29	.25	
103026	◆	DF10M	DF	1000 V <sub>RRM</sub> , 1A .....	.29	.25	.22	
145429	◆	KBP02M	KBP	200 V <sub>RRM</sub> , 1.5A .....	.39	.35	.29	
119562	◆	KBP04M*	KBP	400 V <sub>RRM</sub> , 1.5A .....	.39	.35	.29	
279494	◆	W005G	WOG	50 V <sub>RRM</sub> , 1.5A .....	.45	.35	.25	
103018	◆	W02G	WOG	200 V <sub>RRM</sub> , 1.5A .....	.49	.45	.39	
102980	◆	W04G	WOG	400 V <sub>RRM</sub> , 1.5A .....	.49	.45	.39	
179469	◆	W08G	WOG	800 V <sub>RRM</sub> , 1.5A .....	.49	.45	.39	
279515	◆	W10G	WOG	1000 V <sub>RRM</sub> , 1.5A .....	.49	.45	.39	
178132	◆	W01M	WOM	100 V <sub>RRM</sub> , 1.5A .....	.25	.22	.19	
178141	◆	W02M	WOM	200 V <sub>RRM</sub> , 1.5A .....	.25	.22	.19	
178183	TAT	BR805D	BR8D	50 PIV, 2A .....	.49	.45	.39	
178247	TAT	BR810D	BR8D	1000 PIV, 2A .....	.49	.45	.39	
253260	◆	2KBP06M	KBP	600 V <sub>RRM</sub> , 2A .....	.45	.35	.29	
253286	◆	2KBP10M	KBP	1000 V <sub>RRM</sub> , 2A .....	.49	.39	.35	
299874	◆	GBPC1206	GBPC	600 V <sub>RRM</sub> , 12A .....	2.49	2.25	1.95	
299866	◆	GBPC1206W	GBPC-W	600 V <sub>RRM</sub> , 12A .....	1.75	1.35	.99	
179477	◆	GBPC25-01	GBPC	100 V <sub>RRM</sub> , 25A .....	1.95	1.49	1.25	
179485	◆	GBPC25-02	GBPC	200 V <sub>RRM</sub> , 25A .....	1.95	1.49	1.25	
178280	◆	MB254	MB35	400 V <sub>RRM</sub> , 25A .....	2.49	2.15	1.75	
178431	◆	MB358	MB35	800 V <sub>RRM</sub> , 35A .....	2.95	2.75	2.49	
178335	TAT	TB252	TB35	200 PIV, 25A .....	1.95	1.75	1.49	
25574	◆	MDA990-3	179-01	200 PIV, 30A .....	3.75	3.49	3.25	
25591	◆	MDA990-6	179-01	600 PIV, 30A .....	3.95	3.75	3.49	
178503	TAT	TB3510	TB35	1000 PIV, 35A .....	3.49	3.25	2.95	

\*10 pcs. in Diode/Rectifier cabinet kit, below

† DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

## Diode/Rectifier Assortment Cabinet Kit

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers

Includes: 20 drawer component cabinet (319601), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit.

10 each: 1N270, 1N751A, 1N4001, 1N4007, 1N4150, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M

100 each: 1N914, 1N4004, 1N4148

Part No.	Description	Wt. (lbs.)	1	5
82587	420 pcs. (15 types) diode kit	5.0	\$39.95	\$34.95
130366	Refill for 82587 (420 pcs.)	0.3	29.95	26.95

## Silicon Controlled Rectifiers (SCRs)

★ Web Code: BAB

Part No.	*Mfr.	Product No.	Pkg.	Rating	* Order in multiples of 10		
					1	10	100
14859	◆	C38M	TO-65	600 PRV, 35A (2N3899) ...	\$6.95	\$6.25	\$5.49
14736	◆	C106B1*	TO-202	200 PRV, 4A (2N6239) <sup>†</sup> .....	.69	.59	.49
14752	◆	C122B	TO-220	200 PRV, 8A .....	1.29	1.19	.99
14761	◆	C122M	TO-220	600 PRV, 8A .....	1.35	1.25	1.05
160119	◆	T106D1	TO-202AB	400 PRV, 4A .....	.59	.49	.45
119802	◆	2N5060	TO-92	25 PRV, 0.8A .....	*	.12	.10
211422	◆	2N5061	TO-92	60 PRV, 0.8A .....	*	.12	.10
160135	TEC	S6025L	TO-220AB	600 V <sub>DRM</sub> , 25A .....	1.49	1.39	1.29
140417	◆	2N6507	TO-220AB	400 PRV, 25A .....	1.19	1.09	.95
885654	ON	2N6509	TO-220AB	800 V <sub>DRM</sub> , 25A .....	.99	.89	.75

<sup>†</sup> Isolated \*10 pcs. in Diode/Rectifier cabinet kit, below left

## Heat Sinks

★ Web Code: JAB



• Material: black anodized aluminum (except for P/N 107297 – light weight alum.)  
• P/N 42622 can be mounted vertically with solderable mounting tabs

Part No.	*Mfr.	Product No.	Type	Hole	Size (L" x W" x H")	* Order in multiples of 10		
						1	10	100
2077335	AVD	501200B00	DIP-14/16	0	0.73 x 0.25 x 0.19 ...	\$49	\$45	\$39
151547	JVP	635-125B2	TO-3	4	1.83 x 1.40 x 1.25 ...	1.49	1.39	1.25
189835	AVD	501303B00000G	TO-3	4	1.90 x 1.40 x 0.50 ...	.89	.79	.69
16513	JVP	DUDE4	TO-3	4	4.75 x 1.50 x 1.25 ...	3.75	3.25	2.75
326757	JVP	529801B02500	TO-218	3	1.64 x 1.00 x 1.50 ...	1.19	.99	.85
696626	AVD	530002B02500	TO-220	1	2.52 x 1.65 x 1.00 ...	1.95	1.75	1.39
696714	AVD	577002B00000G	TO-220	1	0.52 x 0.25 x 0.75 ...	.29	.25	.22
158051	AVD	577102B00000G	TO-220	1	0.52 x 0.36 x 0.75 ...	.29	.25	.22
696722	AVD	581002B02500G	TO-220	1	0.64 x 0.64 x 1.00 ...	1.49	1.39	1.29
326596	◆	507302B00000	TO-220	1	0.75 x 0.38 x 0.75 ...	.29	.25	.22
70658	JVP	THM6073	TO-220	1	0.75 x 0.36 x 0.75 ...	.29	.25	.22
2077327	COM	8314021B00 (TO-262)	TO-220	0	0.75 x 0.50 x 0.50 ...	.39	.29	.25
40504	WKF	291-H-36AB	TO-220	1	1.00 x 0.36 x 0.86 ...	.85	.75	.65
107297	◆	PSC2-U (cup-style)	TO-220	0	1.00 x 0.42 x 0.80 ...	.49	.39	.25
42622	AVD	563002B000000G	TO-220	1	1.18 x 1.00 x 0.50 ...	.35	.29	.25
129242	JVP	THM6106	TO-220	1	1.18 x 1.00 x 0.50 ...	.65	.55	.45
70915	JVP	THM6106	TO-220	2	1.18 x 1.00 x 0.50 ...	.69	.59	.49
326693	JVP	531002B05200	TO-220	2	1.38 x 0.50 x 1.00 ...	.89	.79	.69
326713	JVP	531102B02500	TO-220	3	1.38 x 0.50 x 1.50 ...	.99	.79	.65
326765	JVP	531302B02500	TO-220/202	3	2.50 x 1.38 x 0.50 ...	1.25	1.09	.89
2033463	AVD	573300D00010G	TO-263	0	1.03 x 0.50 x 0.40 ...	.85	.75	.65
1115310	AVD	576802B03100G	TO-220	0	0.75 x 0.50 x 0.52 ...	.45	.39	.35
1115643	AVD	577202B00000G	TO-220	1	0.52 x 0.50 x 0.75 ...	.29	.25	.22
1116460	AVD	7128DG	TO-220	0	0.86 x 0.38 x 1.18 ...	.89	.79	.69
326684	AVD	566010B03400	TO-218	0	1.00 x 0.50 x 1.22 ...	.89	.79	.69
891464	AVD	593002B03400G	TO-220	1	1.00 x 0.50 x 1.18 ...	.79	.69	.59
2039099	AVD	7023B-MTG	TO-220	3	1.90 x 1.95 x 0.95 ...	1.35	1.15	1.05
2028162	AVD	7173DG	TO-220	1	0.75 x 0.75 x 0.38 ...	.49	.45	.39
696765	AVD	7109DG	TO-263	0	0.76 x 1.00 x 0.45 ...	1.25	1.05	.95
1115432	AVD	576802B03900G	TO-220	0	0.50 x 0.50 x 0.75 ...	.49	.45	.39
2033009	AVD	7136DG	TO-220	0	0.52 x 0.52 x 0.85 ...	.75	.65	.59
129226	JVP	For 486 CPUs (adhesive back)	TO-220	0	1.58 x 1.58 x 0.39 ...	2.95	2.49	2.25

\* AVD = Aavid Thermalloy | COM = Comair Rotron | DDI = Diodes Inc. | JVP = Jameco ValuePro | ON = On Semiconductor | TAT = Taitron | TEC = Teccor | WKF = Wakefield | ▲ Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Heat Sink Mounting Kits, Compounds & Accessories

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**



Semiconductors

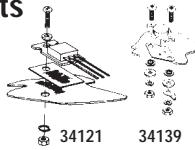
## Heat Sink Accessories

Part No.	Mfr. Part No.	Description	1	10	100
1582559	173-7-220P	DeltaPAD™ insulator for TO-220 .....	\$ .39	\$ .35	\$ .25
1582575	175-6-240-P	KAPTON™ reinforced insulator for TO-220 .....	.35	.29	.25

## Heat Sink Mounting Kits

- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10	100
34121	TO-220	5 pcs per kit .....	\$ 3.95	\$ 3.59	\$ 3.25
34139	TO-3	12 pcs per kit .....	3.95	3.59	3.25



More online at [www.Jameco.com](http://www.Jameco.com)

## Heat Sink Compounds

\* Web Code: YBA



169252      615321      167249      236823

Part No.	Mfr. Product No.	Description	1	10	100
1582541	WKF 120-8	Silicon oil-based compound 8 oz. jar .....	\$ 23.95	\$ 21.95	—
169252	TSP 1978DP	Silicon free compound 4 oz. tube .....	23.95	21.95	20.95
615304	GCE 10-8106	Zinc-oxide filled silicon compound 1 lb. can .....	29.95	26.95	23.95
615312	GCE 10-8108	Zinc-oxide filled silicon compound 6.5g tube .....	2.95	2.65	2.39
615321	GCE 10-8109	Zinc-oxide filled silicon compound 1 oz. tube .....	7.95	7.25	6.55
167249	AVD THM250	Silicon based compound 2 oz. tube .....	8.95	7.95	6.95
236823	JVP 54114	Silicon based compound 1 oz. tube .....	4.95	4.49	3.95

## Optoisolators & Optocouplers

### Optoisolators

\* Web Code: CAG

Part No.	Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
40985	◆	4N25	DIP-6	NPN phototransistor output .....	\$ .25	\$ .22	\$ .19
41005	◆	4N26	DIP-6	NPN phototransistor output .....	.25	.22	.19
41013	◆	4N28	DIP-6	NPN phototransistor output .....	.25	.22	.19
41021	◆	4N32	DIP-6	NPN photodarlington output .....	.25	.22	.19
41030	◆	4N33	DIP-6	NPN photodarlington output .....	.25	.22	.19
41056	◆	4N35	DIP-6	NPN phototransistor output .....	.25	.22	.19
671832	◆	4N35S	SOIC-6	General purpose phototransistor .....	.25	.22	.19
138069	◆	ISP817-3	DIP-4	Low power transistor output .....	.39	.29	.25
2099948	OPT	OPI2151	DIP-6	Single NPN phototransistor .....	.29	.25	.22
320653	◆	PS2501-1	DIP-4	Single NPN phototransistor output .....	.29	.25	.22
320661	◆	PS2501-2	DIP-8	Dual NPN phototransistor output .....	.89	.79	.69
160338	◆	PS2501-4	DIP-16	Quad NPN phototransistor output .....	1.49	1.35	1.19
320688	◆	PS2502-1	DIP-4	Darlington photocoupler .....	.55	.45	.39
320696	◆	PS2502-2	DIP-8	Dual NPN photodarlington output .....	1.45	1.29	1.15
160362	◆	PS2502-4	DIP-16	Quad NPN photodarlington output .....	2.25	1.95	1.75
320725	◆	PS2505-4	DIP-16	Quad NPN phototransistor output .....	2.25	1.95	1.25
320805	◆	PS2532-4	DIP-16	Quad hi collector to emitter voltage .....	2.49	2.25	1.95
26278	◆	MOC3010	DIP-6	Bilateral sw. non-zero crossing triac .....	.39	.35	.29
698912	FSC	MOC3010M	DIP-6	Random phase, triac driver output .....	.45	.39	.35
95020	◆	MOC3011	DIP-6	Random phase, triac driver output .....	.45	.39	.35
671859	◆	MOC3012S	SOIC-6	Random phase, triac driver output .....	.29	.25	.19
277780	◆	MOC3020	DIP-6	Bilateral sw. non-zero crossing triac .....	.49	.45	.39
95038	◆	MOC3021	DIP-6	Random phase, triac driver output .....	.55	.49	.45
277819	◆	MOC3023	DIP-6	Random phase, triac driver output .....	.49	.45	.39
113953	◆	MOC3032	DIP-6	Zero-crossing, triac driver output .....	.79	.69	.59
277827	◆	MOC3033	DIP-6	Zero-crossing, triac driver output .....	.69	.59	.49
277835	◆	MOC3041	DIP-6	Zero-crossing, triac driver output .....	.79	.69	.59
277843	◆	MOC3043	DIP-6	Zero-crossing, triac driver output .....	.79	.69	.59
277894	◆	MOC3052	DIP-6	Random phase, triac driver .....	.69	.59	.45
133874	◆	MOC3063	DIP-6	Zero-crossing, triac driver output .....	.75	.65	.55
320629	◆	MOC3082	DIP-6	Zero-crossing, triac driver output .....	.79	.69	.55
320611	◆	MOC3083	DIP-6	Zero-crossing, triac driver output .....	.59	.45	.35
2006414	LTO	LTR-5986D	SIP-3	NPN phototransistor/detector .....	.25	.22	.15
273607	NTE	NTE3221	DIP-16	4-channel, NPN transistor output .....	3.25	2.95	2.75

Blue Part No. = Limited Quantity Available

### Optocouplers

\* Web Code: NAK

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
277510	◆	6N135	DIP-8	Hi-speed photodetector transistor .....	\$ .75	\$ .65	\$ .55
42471	◆	6N136	DIP-8	Hi-speed phototransistor output .....	.65	.55	.45
113911	◆	6N137	DIP-8	Hi CMR, hi-speed logic gate output .....	.69	.59	.49
42489	◆	6N138	DIP-8	Hi-speed photodarlington output .....	.69	.59	.49
113929	◆	6N139	DIP-8	Hi-speed photodarlington output .....	.89	.79	.69
18825	◆	H11AA1	DIP-6	AC input/phototransistor .....	.59	.49	.45
320434	◆	H11AA2	DIP-6	AC input phototransistor optocoupler .....	.59	.49	.35
320451	◆	H11AA4	DIP-6	AC input phototransistor optocoupler .....	.69	.59	.49
938365	FSC	H11AA4SVM	DIP-6	AC input phototransistor (w/ SMD) .....	.39	.35	.25
113988	◆	H11L1	DIP-6	μPROC compatible Schmitt trigger .....	.79	.69	.59
871341	FSC	H11L1M	DIP-6	Logic output .....	.85	.75	.65
1549441	AVT	HCPL-060L-000E	SOIC-8	Hi-speed LVTTL compatible 3.3V opto .....	1.75	1.35	1.09
1549644	AVT	HCPL-063N	SOIC-8	Dual ch. high CMR, 10MBd, HCMOS compat.	5.95	5.49	4.49
1549530	AVT	HCPL-0630-000E	SOIC-8	Dual ch. high CMR, hi-sp TTL compat. opto .....	3.75	3.05	2.75
1549732	AVT	HCPL-0710	SOIC-8	40ns propagation delay, CMOS .....	3.49	2.95	2.75
1549741	AVT	HCPL-0710-000E	SOIC-8	40ns propagation delay, CMOS .....	3.85	3.45	3.15
1549839	AVT	HCPL-0731	SOIC-8	Dual ch. low input current, high gain .....	2.75	2.49	2.25
1550047	AVT	HCPL-2232	DIP-8	Dual ch. very high CMR, wide Vcc logic gate .....	6.95	6.69	6.29
785821	FSC	HCPL2631S	SOIC-8	Dual ch. high speed 10Mbps/ logic gate .....	1.49	1.25	.95
1584221	AVT	HCPL-7710-000E	DIP-8	40ns propagation delay, CMOS .....	2.95	2.75	2.49
1584239	AVT	HCPL-7710-300E	DIP-8	40ns propagation delay, CMOS .....	2.95	2.75	2.49
1584247	AVT	HCPL-7800-300	SOIC-8	Isolation amplifier optocoupler .....	5.95	5.25	4.75
1584255	AVT	HCPL-7800A#300	DIP-8	Isolation amplifier optocoupler .....	8.95	6.95	5.95
24918	◆	MCT6	DIP-8	High density NPN phototransistor .....	.59	.49	.45
672317	◆	MCT61	DIP-8	Dual channel NPN phototransistor .....	.39	.29	.25
672325	◆	MCT62	DIP-8	Dual channel NPN phototransistor .....	.59	.49	.39
2006385	LTO	LTV-814H	DIP-4	Phototransistor output, AC input .....	.25	.22	.19
1996330	LTO	LTV-824S	SOIC-8	Opto phototransistor .....	.39	.35	.25
790735	LTO	LTV-824R	DIP-8	Opto phototransistor .....	.55	.45	.39
878286	LTO	LTV-847R	DIP-16	Quad ch. phototransistor output .....	.79	.69	.59
1583156	CLA	PD2401	DIP-16	AC solid st. sw. w/ dual pwr SCR output .....	5.75	5.25	4.49
1583199	CLA	TS117S	SOIC-8	1-Form-A relay optocoupler .....	1.75	1.45	1.25
1583228	AVT	5962-8876901PC	DIP-8	2-ch., low IF, wide Vcc, logic gate .....	79.95	69.95	59.95

Blue Part No. = Limited Quantity Available



\* Web Code: XAP

### Slotted Optical Switches

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
320901	◆	H21A3	4-pin w/ tab	Single channel, 20mA (Ic) .....	\$ .99	\$ .79	\$ .69
2078282	SIE	IRLA075	4-pin w/ tab	Single channel, 50mA (Ic) .....	.69	.59	.39
1069835	FSC	QRB1114	4-pin angled	Infrared phototransistor .....	.99	.89	.69

\* AVD = Aavid Thermalloy | AVT = Avago | CLA = Clare | FSC = Fairchild | GCE = GC Electronics | JVP = ValuePro | LTO = Lite On | NTE = NTE Elec. | OPT = Optek | SIE = Siemens | TSP = Tech Spray | WKF = Wakefield

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#)



Fig. 1

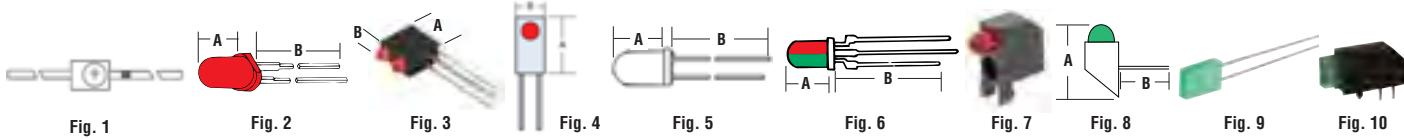
1.90mm (.075") Subminiature LEDs  
Flat-Top or Dome Style

\* Web Code: SML

Fig. 2

Part No.	Mfr. Part No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	Typical VI @ If	Iv Typical mcd @ mA	Wavelength (nm)	Viewing Angle°	Pricing			
										1	10	100	500
1555690	HLMP-P205-F0011R	AVT	1	Hi-eff. Red	Non-diffused, untinted	1.8 @ 10	8 @ 10	635	125	\$ .39	\$ .35	\$ .29	\$ .25
1555817	HLMT-PH00-P0011R	AVT	1	Red Orange	Non-diffused, untinted	2 @ 20	120 @ 20	621	125	.39	.35	.29	.25
1555711	HLMP-P50-G0011R	AVT	1	Hi-perf. Green	Non-diffused, untinted	2.1 @ 10	6.3 @ 10	565	125	.39	.35	.29	.25
1584976	HLMP-Q156-H0021R	AVT	2	Red	Non-diffused, untinted	1.6 @ 0.5	7 @ 0.5	654	15	.39	.35	.29	.25
1584968	HLMP-Q106-R0011R	AVT	2	Red	Non-diffused, untinted	1.9 @ 20	400 @ 10	654	15	.39	.35	.29	.25
1555219	HLMP-7000R	AVT	2	Hi-eff. Red	Diffused, tinted	1.8 @ 10	1 @ 2	635	90	.39	.35	.29	.25
1584802	HLMP-7019R	AVT	2	Yellow	Diffused, tinted	2 @ 10	0.6 @ 2	583	90	.35	.29	.25	.19
334406	LY9033R	JVP	2	Yellow	Water clear	1.7 @ 20	30 @ 10	585	20	.29	.25	.19	.15
1555059	HLMP-6500-F0010R	AVT	2	Hi-perf. Green	Diffused, tinted (right angle housing)	2.1 @ 10	7 @ 10	565	90	.39	.35	.29	.25
1555104	HLMP-6505-L0021R	AVT	2	Hi-perf. Green	Non-diffused, untinted	2.1 @ 10	40 @ 10	565	28	.35	.29	.25	.19
1584790	HLMP-6820R	AVT	2	Hi-perf. Green	Diffused, with resistor	5 @ 4	2 @ 5	565	90	.45	.39	.35	.29

● Blue Part No. = Limited Quantity Available



## Standard-Output LEDs

See page 30 for LED Mounting Hardware

\* Web Code: FAF

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A" B"	Lead Spacing	Typical VI	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
														1	10	100	1000
26745	MCDL-17DEC	MCD	1	Red	Water clear	T 1/4	0.065/1.7	0.06 0.35	—	2.0	7	635	100	\$ .39	\$ .35	\$ .29	\$ .25
1869437	MPG2262SS	STA	1	Green	Green diffused	T 1/4	0.065/1.7	0.06 0.35	—	2.1	16	567	60	.39	.35	.29	.25
202471	MVL-301HR	UNI	2	Red	Red diffused	T1	0.119/3	0.14 1.12	0.10	2.0	9.0	640	40	*	.10	.08	.06
253278	HLMP-1301	FSC	2	Red	Red diffused	T1	0.119/3	0.19 1.00	0.10	1.9	5.4	635	60	*	.11	.09	.07
152785	LT0341R-41R	LED	2	Red	Red diffused	T1	0.119/3	0.20 0.89	0.10	2.1	15.5	635	56	*	.12	.10	.08
333851	UT6371-41-M1R	JVP	2	Red	Red diffused	T1	0.119/3	0.17 0.98	0.10	1.7	63	660	47	*	.12	.10	.08
94529	LH2040R	JVP	2	Red	Red diffused (XC209RB)	T1	0.119/3	0.18 1.04	0.07	2.3	4.5	697	36	*	.12	.10	.08
1362822	LA44B/2I	JVP	3	Red	Red diffused (right angle), 60° LDS	T1	0.119/3	0.38 0.17	0.10	1.7	12	635	50	.35	.29	.25	.19
1554099	HLMP-1700-B002R	AVT	2	Red	Red tinted/diffused	T1	0.119/3	0.19 0.95	0.10	1.7	0.8	635	50	.25	.22	.19	.15
1554110	HLMP-1700-B002A	AVT	4	Red	Red tinted/diffused (right angle)	T1	0.119/3	0.19 0.95	0.10	1.7	0.8	635	50	.49	.45	.39	.35
152751	LT0344R-41R	LED	2	Red	Red clear	T1	0.119/3	0.20 0.89	0.10	2.1	52.9	635	36	*	.12	.10	.08
2081991	XLUR40W	◆	5	Red	Water clear	T1	0.119/3	0.197 1.063	0.10	1.9	59	627	50	*	.10	.08	.06
333171	HLMP-K155-JV	JVP	5	Red	Red clear	T1	0.119/3	0.19 1.04	0.10	1.6	3.0	660	45	*	.12	.10	.08
333260	LHR2643R	JVP	2	Red	Water clear	T1	0.119/3	0.13 0.98	0.10	1.5	300	660	40	*	.12	.10	.08
114673	LH2043R	JVP	2	Red	Water clear (BR209)	T1	0.119/3	0.14 0.98	0.07	2.3	12	697	30	*	.12	.10	.08
206498	LHR2041R	JVP	2	Red	Red transparent	T1	0.119/3	0.17 0.69	0.08	2.0	350	660	30	*	.15	.12	.10
697565	LTL-4211N	LTO	2	Bright Red	Red diffused	T1	0.118/3	0.175 1.00	0.10	2.1	4.4	697	60	*	.12	.10	.08
697590	LTL-4221N	LTO	2	Hi-eff Red	Red diffused	T1	0.118/3	0.175 1.00	0.10	2.0	8.7	635	60	*	.10	.08	.06
2006713	LTL-161CE	LTO	2	Hi-eff Red	Red diffused, flanged	T1	0.118/3	0.21 1.07	0.10	2.0	12.6	621	60	*	.12	.10	.08
2081932	BVL-300E5D	◆	5	OrangeRed	Red diffused	T1	0.119/3	0.17 1.00	0.10	2.1	18	622	45	*	.09	.06	.05
94553	LHG2062R	JVP	2	Red/Green	White diffused bi-color/bi-state <sup>1</sup>	T1	0.119/3	0.18 1.06	0.08	2.3	3 & 15	697/565	36	*	.19	.15	.12
1766366	4301F1/5R	CML	5	Red/Green	White diffused bi-color	T1	0.119/3	0.175 1.00	0.10	2.1	13/4	660/565	60	.59	.55	.49	.45
156946	LT0362-25-D61R	LED	6	Red/Green	White diffused bi-color/tri-state	T1	0.119/3	0.16 0.87	0.08	2.1	2.7/13.3	700/567	50	.39	.35	.29	.25
235424	LA45B/2I	JVP	3	Red/Red	Red diffused (right angle)	T1	0.119/3	0.40 0.18	0.10	1.7	12	630	50	.35	.29	.25	.19
235416	LA45B/2G	JVP	7	Green/Green	Green diffused (dual)	T1	0.119/3	0.40 0.18	0.10	1.7	15	565	50	.35	.29	.25	.19
156937	LT0331-41	LED	2	Yellow	Yellow diffused	T1	0.119/3	0.20 0.95	0.10	2.1	11	585	56	*	.12	.10	.08
333219	LY12340R	JVP	2	Yellow	Yellow diffused	T1	0.119/3	0.13 0.98	0.10	1.7	6.5	585	112	*	.12	.10	.08
697688	LTL-4251N	LTO	5	Yellow	Yellow diffused	T1	0.118/3	0.175 1.00	0.10	2.1	5.6	585	60	*	.12	.10	.08
202489	MVL-301Y	UNI	5	Yellow	Yellow diffused	T1	0.118/3	0.20 1.10	0.10	2.1	9.0	585	40	*	.12	.10	.08
34657	LY2040R	JVP	2	Yellow	Yellow diffused (XC209Y)	T1	0.119/3	0.16 0.68	0.08	2.3	15	585	36	*	.12	.10	.08
334211	LA16BY	JVP	4	Yellow	Yellow diffused (right angle)	T1	0.119/3	0.29 0.18	0.10	1.7	12	585	50	*	.19	.15	.12
2006721	LTL-14CDJLDL	LTO	2	Yellow/Green	White diffused bi-color, flanged	T1	0.119/3	0.19 1.35	0.10	2.1	8.7/12.6	585/565	80	*	.19	.15	.12
2006705	LTL-1CHYE	LTO	2	Yellow	Water clear, flanged	T1	0.119/3	0.21 1.07	0.10	2.1	40	585	45	*	.08	.06	.045
2082003	XLUY40W	◆	5	Yellow	Water clear	T1	0.119/3	0.197 1.063	0.10	1.95	19	590	50	*	.10	.08	.06
206480	LVY2041R	JVP	2	Yellow	Yellow transparent	T1	0.119/3	0.17 0.69	0.08	2.3	450	595	30	*	.12	.10	.08

\* 10 pcs./\*\* 100 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30

<sup>1</sup> Reverse polarity to change color

Standard Output LEDs continued on next page

\* AVAGO | CML = CML Innovative | FSC = Fairchild Semi | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite On | MCD = MCD Electronics | STA = Stanley | UNI = Unity Opto | ◆ Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



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# Standard-Output LEDs

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## Standard-Output LEDs (Continued)

Figure images on previous page

\* Web Code: FAF

\* Order in multiples of 10

Optos

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle*	Pricing			
								A"	B"						1	10	100	1000
2006676	LTL-42DINMHDP1R	LTO	3	Green/Yellow	Gr/yel diffused (rt. angle) .13" LDS	T1	0.119/3	0.38	0.17	0.10	2.1	12/6	565/585	60	*	\$15	\$12	\$10
333201	LG12340R	JVP	2	Green	Green diffused	T1	0.119/3	0.13	0.98	0.10	1.7	9.6	565	112	*	.12	.10	.08
253631	HLMP-1503	FSC	2	Green	Green diffused	T1	0.119/3	0.19	1.00	0.10	2.1	1.0	565	60	*	.12	.10	.08
156930	LTL0321-41-HER	LED	2	Green	Green diffused	T1	0.118/3	0.16	0.88	0.10	2.1	32	567	56	*	.15	.12	.10
211086	LTL-4231N-022	LTO	5	Green	Green diffused	T1	0.119/3	0.13	1.10	0.10	2.1	12.6	565	40	*	.10	.08	.06
1956602	LTL4231N	LTO	2	Green	Green diffused	T1	0.118/3	0.175	1.00	0.10	2.1	12.6	565	60	*	.10	.08	.06
697637	LTL-4231N-R	LTO	5	Green	Green diffused	T1	0.118/3	0.175	1.00	0.10	2.1	12.6	565	60	*	.12	.10	.08
34606	LSG2040R*	JVP	2	Green	Green diffused (XC209G)	T1	0.119/3	0.13	1.05	0.08	2.2	15	560	50	*	.15	.12	.10
136274	LA44B/2GR	JVP	3	Green	Green diffused (rt. angle) .60" LDS	T1	0.119/3	0.38	0.17	0.10	2.3	15	565	50	.39	.35	.25	.19
1554144	HLMP-1790-A0002R	AVT	2	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.9	2.3	565	50	.29	.25	.19	.15
175679	LVG2041R	JVP	2	Green	Green transparent	T1	0.119/3	0.17	0.69	0.08	2.2	129	565	30	*	.15	.12	.10
253665	HLMP-1540R	FSC	2	Green	Water clear	T1	0.119/3	0.19	1.00	0.10	45	2.2	565	45	*	.12	.10	.08
2081983	XLUG40W	♦	2	Green	Water clear	T1	0.119/3	0.197	0.63	0.10	2.0	69	565	50	*	.10	.08	.06
333315	MV7441-JVR	LIG	2	Green	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	120	565	40	*	.12	.10	.08
114681	LVG2043R*	JVP	2	Green	Water clear (BG209)	T1	0.119/3	0.14	0.98	0.07	2.2	129	565	30	*	.12	.10	.08
137411	LVB2040R	JVP	2	Blue	Blue diffused	T1	0.119/3	0.21	0.98	0.10	4.8	10	430	50	.89	.79	.69	.59
334457	LSB12640R	JVP	5	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	430	40	.89	.79	.69	.59
333383	UT63B1-41-M1A2R	JVP	5	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	466	54	.49	.45	.35	.29
333973	UT1871-81-M1R	JVP	2	Red	Red diffused	T1 1/4	0.197/5	0.34	0.98	0.10	1.7	75	660	25	*	.12	.10	.08
334035	UT1871-81-UR-P18	JVP	2	Red	Red diffused	T1 1/4	0.197/5	0.334	0.94	0.10	1.9	250	660	25	*	.15	.12	.10
253753	HLMP-3301R	FSC	2	Red	Red diffused	T1 1/4	0.197/5	0.36	1.00	0.10	2.4	5.4	635	60	*	.15	.12	.10
242844	LT1811-81R	LED	2	Red	Red diffused	T1 1/4	0.197/5	0.30	0.88	0.10	2.1	4.1	700	44	*	.12	.10	.08
302033	LT1814-81	LED	2	Red	Red clear	T1 1/4	0.197/5	0.34	0.88	0.10	2.1	10	650	10	*	.10	.08	.06
333489	LUR3330/HO/A	JVP	2	Red	Red diffused	T1 1/4	0.197/5	0.34	0.98	0.10	1.5	380	660	40	*	.19	.15	.12
94511	LH3330R	JVP	2	Red	Red diffused (XC556RB)	T1 1/4	0.197/5	0.31	0.81	0.08	2.3	3	697	36	*	.15	.12	.10
104248	LA93B/H-1R*	JVP	8	Red	Red diffused (XC410R)	T1 1/4	0.197/5	0.35	0.89	0.08	2.3	6.5	697	46	.25	.21	.19	.15
34690	LHF3360R*	JVP	2	Red	Red diff. blinking (XC5410) 2	T1 1/4	0.197/5	0.30	0.94	0.07	3-12	2.8	697	—	.39	.35	.29	.25
1554865	HLMP-4700-C00B2R	AVT	8	Red	Red tinted/diffused	T1 1/4	0.197/5	0.36	1.05	0.10	1.7	2.3	626	50	.59	.55	.49	.45
34745	LH3333R	JVP	2	Red	Water clear (XC554R)	T1 1/4	0.197/5	0.30	1.00	0.08	2.3	7.5	697	20	*	.15	.12	.10
2006756	LTL-5224	LTO	2	Hi-eff Red	Water clear, low profile, flanged	T1 1/4	0.197/5	0.24	1.01	0.10	2.0	29	623	44	*	.12	.10	.08
334378	UT1841R-81R	JVP	2	Hi-eff Red	Red diffused	T1 1/4	0.197/5	0.34	0.98	0.10	2.1	23.1	630	44	*	.12	.10	.08
697602	LTL-4223R	LTO	2	Hi-eff Red	Red diffused	T1 1/4	0.197/5	0.34	1.00	0.10	2.0	19	635	36	*	.11	.09	.07
697522	LTL-307ER	LTO	5	Hi-eff Red	Red diffused	T1 1/4	0.197/5	0.34	0.9	0.10	2.0	19	635	50	*	.12	.10	.08
2006692	LTL-10224WHCR	LTO	9	Hi-eff Red	Red diffused w/ plastic case	T1 1/4	0.197/5	0.44	0.49	0.10	2.0	60	635	30	*	.15	.12	.09
790081	LTL-10223W/R	LTO	5	Hi-eff Red	Red diffused, flangeless	T1 1/4	0.187/4.75	0.283	1.00	0.10	2.0	60	623	60	*	.12	.10	.08
2006730	LTL-307E-3**	LTO	2	Hi-eff Red	Red diffused, flanged	T1 1/4	0.197/5	0.34	0.87	0.10	2.0	12.6	635	40	*	.10	.08	.06
334271	LA93B/I	JVP	8	Hi-eff Red	Red diffused PCB mnt indicators	T1 1/4	0.197/5	0.36	0.15	0.10	1.7	25	635	46	.29	.25	.19	.15
697611	LTL-4224R	LTO	2	Hi-eff Red	Red transparent	T1 1/4	0.197/5	0.34	1.00	0.10	2.0	90	635	16	*	.10	.08	.06
697573	LTL-4213R	LTO	2	Bright Red	Red diffused	T1 1/4	0.197/5	0.34	1.00	0.10	2.1	3.7	697	36	*	.11	.09	.07
790225	LTL-307P/R	LTO	5	Bright Red	Red diffused	T1 1/4	0.197/5	0.34	0.90	0.10	2.1	5.6	697	50	*	.12	.10	.08
334174	LHI3360R	JVP	6	Red/Orange	Red diffused bi-color/solid state 1	T1 1/4	0.197/5	0.34	0.98	0.10	1.7	2 & 3	697/635	30	*	.19	.15	.12
34711	LEG3362R*	JVP	2	Red/Green	White diffused bi-color/bi-state 1	T1 1/4	0.197/5	0.30	1.01	0.09	2.3	7.5	635/565	30	*	.19	.15	.12
334182	LGH3362R	JVP	6	Red/Green	White diff. bi-color/solid state 1	T1 1/4	0.197/5	0.34	0.98	0.10	1.7	2 & 8	697/565	30	*	.19	.15	.12
34673	LHG3392R*	JVP	6	Red/Green	White diff. bi-color/tri-state 1	T1 1/4	0.197/5	0.30	1.02	0.03	2.3	3 & 12	697/565	70	*	.19	.15	.12
1584773	HLMP-4000S010R	AVT	8	Hi-eff Red/Gn	Diffused, bi-color	T1 1/4	0.197/5	0.36	1.05	0.10	2.2/1.9	4.2/2.1	568/635	65	.79	.69	.59	.49
697557	LTL-30EFJ/R	LTO	6	Bright Red/Gn	White diffused, bi-color	T1 1/4	0.197/5	0.41	0.945	0.10	2.1/2.1	5.6/19	697/565	30	.39	.35	.29	.25
152857	LT1841R-81-R	LED	2	Orange Red	Red diffused	T1 1/4	0.197/5	0.34	0.89	0.10	2.1	23	635	44	*	.15	.12	.10
210825	BVU-5M1QN1	BVO	5	Orange Red	Red diffused	T1 1/4	0.197/5	0.30	1.00	0.10	2.1	465	615	30	*	.10	.08	.06
107393	LE3330R	JVP	2	Orange Red	Orange diffused (XC556A)	T1 1/4	0.197/5	0.30	1.02	0.08	2.3	12	635	36	*	.12	.10	.08
697696	LTL-4253R	LTO	2	Yellow	Yellow diffused	T1 1/4	0.197/5	0.34	1.00	0.10	2.1	19	585	36	*	.12	.10	.08
334108	UT1831-81-S	JVP	2	Yellow	Yellow diffused	T1 1/4	0.197/5	0.34	0.98	0.10	2.1	16.4	589	44	*	.12	.10	.08
333622	LHY3330/HO	JVP	2	Yellow	Yellow diffused	T1 1/4	0.197/5	0.34	0.98	0.10	1.7	350	595	40	*	.15	.12	.10
697549	LTL-307YR	LTO	5	Yellow	Yellow diffused	T1 1/4	0.197/5	0.34	0.90	0.10	0.1	29	585	50	*	.12	.10	.08
34825	LY3330R	JVP	2	Yellow	Yellow diffused (XC556Y)	T1 1/4	0.197/5	0.30	0.82	0.07	2.3	12	585	36	*	.15	.12	.10
104264	LA93B/Y-1R*	JVP	8	Yellow	Yellow diffused (XC410Y)	T1 1/4	0.197/5	0.35	0.89	0.08	2.3	25	585	46	.25	.21	.19	.16
1995927	LTL-10253R	LTO	2	Yellow	Yellow diffused, flanged	T1 1/4	0.187/4.75	0.283	1.00	0.10	2.1	12.6	585	60	*	.10	.08	.06
790381	LTL-553-11R	LTO	8	Yellow	Yellow diffused, right angle PCB	T1 1/4	0.189/4.8	0.37	0.32	0.10	2.1	12.6	585	60	.29	.25	.19	.15

\*10 pcs./\*\*100 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30

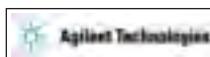
<sup>1</sup> Reverse polarity to change color

<sup>2</sup> Volt. shown is operating volt. range; no current limiting resistor required.

Standard-Output LEDs continued on next page

\* AVT = Avago Technology | BVO = BV Optotech | FSC = Fairchild Semi | JVP = Jameco ValuePro | LED = Ledtech | LIG = Ligitek | LTO = Lite-On | ♦ Varies

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



JAMECO ValuePro



## Standard-Output LEDs (Continued)

Figure images on page 25

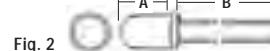
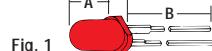
\* Web Code: FAF

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
152831	LTI831-81-UR	LED	2	Bright yellow	Yellow diffused	T1 1/4	0.197/5	0.34	0.89	0.10	2.0	424	593	41	\$.39	\$.29	\$.25	\$.19
1554603	HLMP-3401-E00B2	AVT	8	Amber	Amber diffused	T1 1/4	0.197/5	0.36	1.05	0.10	2.0	5.7	583	60	.49	.45	.39	.35
697653	LTL-4233	LTO	2	Green	Green diffused	T1 1/4	0.197/5	0.40	1.00	0.10	2.1	19	565	36	*	.12	.10	.08
693901	MCDL-5013GD	MCD	2	Green	Green diffused	T1 1/4	0.197/5	0.34	1.04	0.10	2.1	12.5	565	60	*	.10	.08	.06
697531	LTL-307G	LTO	2	Green	Green diffused	T1 1/4	0.197/5	0.34	1.00	0.10	2.1	19	565	50	*	.12	.10	.08
152822	LTI821-81-HE	LED	2	Green	Green diffused	T1 1/4	0.197/5	0.34	0.89	0.10	2.1	96	567	41	*	.19	.15	.12
253833	HLMP-4740	FSC	2	Green	Green diffused	T1 1/4	0.197/5	0.36	1.00	0.10	2.2	2.3	565	50	*	.15	.12	.10
334086	LG13740	JVP	2	Green	Green diffused	T1 1/4	0.197/5	0.34	0.98	0.10	1.7	20	565	68	*	.10	.08	.06
34761	LG3330	JVP	2	Green	Green diffused (XC556G)	T1 1/4	0.197/5	0.31	0.79	0.09	2.3	12	565	36	*	.15	.12	.10
104256	LA93B/G-1	JVP	8	Green	Green diffused (XC410G)	T1 1/4	0.197/5	0.35	0.89	0.08	2.3	30	565	46	*	.19	.15	.12
790090	LT-10233W	LTO	2	Green	Green diffused, flangeless	T1 1/4	0.187/4.75	0.28	1.0	0.10	2.1	40	569	60	*	.15	.12	.10
94561	LFG3360	JVP	2	Green	Green diffused blinking (XC5408)	T1 1/4	0.197/5	0.30	1.05	0.08	3-12	17	565	20	.39	.35	.29	.25
1554881	HLMP-4740-A00B2	AVT	8	Green	Green tinted/diffused	T1 1/4	0.197/5	0.36	1.05	0.10	1.9	2.3	569	50	.49	.45	.39	.35
175687	LTQ-254-81	LED	2	Green	Green transparent	T1 1/4	0.197/5	0.24	1.07	0.07	2.1	44	567	30	*	.10	.08	.06
697661	LTL4234	LTO	2	Green	Green transparent	T1 1/4	0.197/5	0.34	1.00	0.10	2.1	60	565	16	*	.10	.08	.06
2100232	LTL-10234WHCA	LTO	6	Green	Green clear with plastic case	T1 1/4	0.197/5	0.44	0.49	0.10	2.1	60	565	30	*	.19	.15	.12
333956	LG3331	JVP	2	Green	Green transparent	T1 1/4	0.197/5	0.34	0.98	0.10	1.7	150	565	20	*	.10	.08	.06
156962	LTI823-81-HE	LED	2	Green	Water clear	T1 1/4	0.197/5	0.34	0.87	0.10	2.1	500	567	19	*	.12	.10	.08
11359	LG3333	JVP	2	Green	Water clear (BG5704)	T1 1/4	0.197/5	0.30	1.04	0.07	2.3	100	565	20	*	.10	.08	.06
790321	LTL4238	LTO	2	Green	Water clear	T1 1/4	0.197/5	0.34	1.00	0.10	2.1	90	565	16	*	.12	.10	.08
333227	LG13530	JVP	5	Hi-eff green	Green diffused (flangeless)	T1 1/4	0.197/5	0.34	0.98	0.10	1.7	25	565	70	*	.10	.08	.06
138691	LVB3330	JVP	2	Blue	Blue diffused	T1 1/4	0.197/5	0.34	0.98	0.10	4.8	10	430	36	.99	.89	.75	.69
2006764	LTL-2R3CBD3	LTO	2	Blue	Blue diffused, flanged	T1 1/4	0.197/5	0.34	0.87	0.10	3.5	50	468	45	.49	.39	.29	.25
119634	LHR3930	JVP	2	Red	Red diffused Jumbo (LT9952L)	T2 1/2	0.315/8	0.44	0.84	0.07	2.0	100	660	44	*	.19	.15	.12
138683	LHR3630	JVP	5	Red	Red diffused XJumbo (XC10R)	T3 1/4	0.394/10	0.40	1.04	0.10	2.0	100	660	32	.29	.25	.19	.15
98984	LVG3630	JVP	2	Green	Green diffused XJumbo (XC10G)	T3 1/4	0.394/10	0.40	1.07	0.08	2.3	40	565	32	.29	.25	.19	.15
104889	LEG5292	JVP	9	Red/Green	White diff. bi-color rectangular <sup>1</sup>	2x5mm	—	0.27	1.02	0.08	2.3	6/6	695/565	116	.29	.25	.19	.15
790356	LTL-433G	LTO	9	Green	Green diffused, rectangular	2x5mm	—	0.30	1.00	0.10	2.1	3.7	565	140	*	.12	.10	.08
320282	566-0306	DIA	10	Yellow	Yellow diffused, rectangular	2x5mm	15x4x7mm	0.28	0.11	0.10	2.1	3.5	583	110	*	.19	.15	.12
320274	566-0206	DIA	10	Green	Green diffused, rectangular	2x5mm	15x4x7mm	0.28	0.11	0.10	2.2	4	565	110	*	.19	.15	.12
320291	566-0406	DIA	10	Red	Red diffused, rectangular	2x5mm	15x4x7mm	0.28	0.11	0.10	2.0	7.4	635	140	*	.19	.15	.12

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30

<sup>1</sup> Reverse polarity to change color



\* Order in multiples of 10

## Medium-Output LEDs

\* Web Code: MBW

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
156954	LTO373-41	LED	1	Red Super Bright	Water clear	T1	0.119/3	0.21	1.07	0.08	1.7	600	660	46	*	\$.19	\$.15	\$.12
333340	LHE2643	JVP	1	Orange	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	700	620	40	*	.19	.15	.12
333307	LUV2643-1	JVP	1	Yellow	Water clear	T1	0.197/5	0.13	0.98	0.10	1.7	900	595	40	.35	.29	.25	.19
98968	OLMP-LB98	AVT	2	Blue	Blue clear (oval)	T1	0.119/3	0.28	0.94	0.10	3.2	550	470	70	.35	.29	.25	.19
334749	UT63B3-41-UR33	JVP	1	Blue	Water clear	T1	0.119/3	0.17	0.94	0.10	3.2	900	470	45	.79	.69	.59	.49
2115688	NSPB346BST	NCH	2	Blue	Blue diffused (oval)	T1	0.119/3	0.28	0.94	0.10	3.6	720	470	30	.49	.45	.39	.35
334764	CMD204UWC-JV	JVP	1	White	Water clear	T1	0.119/3	0.20	1.00	0.10	3.7	900	475	30	.99	.89	.75	.65
11797	QLMP-D141	FSC	1	Red	Water clear	T1 1/4	0.197/5	0.29	1.05	0.07	2.0	350	660	8	*	.19	.15	.12
333497	LSR13233	JVP	1	Red	Water clear	T1 1/4	0.197/5	0.35	0.98	0.10	1.5	720	660	18	*	.19	.15	.12
1995978	LTL-353CKRH4	LTO	2	Red	Water clear	T1 1/4	0.197/5	0.35	1.00	0.10	1.8	1000	660	12	*	.19	.15	.12
2077052	HLMP-ED31	AGT	2	Red	Water clear	T1 1/4	0.197/5	0.34	0.94	0.10	2.0	1000	630	30	*	.15	.12	.09
206519	LHR3331	JVP	1	Red	Red transparent	T1 1/4	0.197/5	0.24	1.07	0.07	2.0	660	550	20	*	.19	.15	.12
152864	BVU501SR4	JVP	1	Red Super Bright	Water clear	T1 1/4	0.197/5	0.34	0.89	0.10	1.9	600	660	20	*	.12	.10	.08
351089	MCDL-517URD-F	JVP	1	Super Red	Red diffused blinking	T1 1/4	0.197/5	0.34	1.00	0.10	1.8	500	660	120	.49	.45	.39	.35
333631	LUE13733	JVP	1	Orange	Water clear	T1 1/4	0.197/5	0.34	0.98	0.10	1.7	700	620	25	.29	.25	.21	.19
203553	HLMP-4100	AGT	1	Orange Red	Water clear	T1 1/4	0.197/5	0.32	1.00	0.10	1.8	750	642	8	.29	.25	.19	.15
152792	LT1833-81-M1	LED	1	Yellow	Water clear	T1 1/4	0.197/5	0.34	0.89	0.10	2.1	1040	593	19	.29	.25	.19	.15
206501	LVY3331	JVP	1	Yellow	Yellow transparent	T1 1/4	0.197/5	0.24	1.07	0.07	2.2	700	595	20	*	.19	.15	.12
153154	LVG3333	JVP	1	Green	Water clear (HLMP-8509)	T1 1/4	0.197/5	0.36	0.90	0.10	2.3	500	565	20	*	.15	.12	.10
333551	LVG13233	JVP	1	Green	Water clear	T1 1/4	0.197/5	0.35	0.98	0.10	1.7	600	565	18	*	.19	.15	.12
134333	383UBC/H2	JVP	1	Blue	Water clear	T1 1/4	0.197/5	0.34	1.00	0.10	3.8	630	428	30	1.49	1.35	1.19	1.09
334465	LDBK3331/H0	JVP	1	Blue	Blue transparent	T1 1/4	0.197/5	0.34	0.98	0.10	3.5	900	470	26	.89	.79	.65	.59

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above																

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# High-Output LEDs

3 LEVELS OF SAVINGS  
**NAME BRANDS** | **HOUSE BRANDS** | **FACTORY OVERRUN**

## High-Output LEDs

• Typical DC forward current 20mA

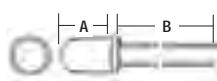


Fig. 1

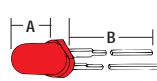


Fig. 2



Fig. 3  
(Piranha)



Fig. 4

\* Web Code: RBJ

\* Order in multiples of 10

Optos

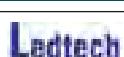
Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A" B"	Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing				
														1	10	100	1000	
98950	QLMP-LM98	AVT	1	Green	Green clear (oval)	T1	0.119/3	0.28	0.94	0.10	3.2	2400	525	70	*	\$ .19	\$ .15	\$ .12
217525	MCDPW-3004C <del>R</del>	JVP	1	White	Water clear	T1	0.119/3	0.18	1.00	0.10	3.8	3000	—	30	1.39	1.25	1.09	.99
197641	BVT-529TT8E	JVP	1	Yellow	Yellow clear (oval)	T1 1/2	0.178/4.5	0.29	1.09	0.08	2.3	3600	592	70	.59	.49	.39	.35
2006801	LTL-2H3VAKNT <del>R</del>	LTO	2	Red	Water clear, flanged	T1 3/4	0.197/5	0.34	0.87	0.10	2.0	3400	621	15	.29	.25	.19	.15
197617	BVU-5E1QH4E <del>R</del>	JVP	2	Red	Water clear	T1 3/4	0.197/5	0.30	1.05	0.08	1.8	2180	630	15	.25	.21	.19	.15
334423	UT9C13-86-UDC2 <del>R</del>	JVP	2	Red	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.9	2700	630	18	.25	.21	.19	.16
333518	LUR13233 <del>R</del>	JVP	2	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2400	660	18	*	.19	.15	.12
333526	LUR3833 <del>R</del>	JVP	2	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2700	660	12	.25	.21	.19	.16
1586189	UT1813-83-UJE1	LED	2	Red	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	2.1	5500	632	25	.39	.35	.29	.19
1584917	HLMP-EG08-Y2000 <del>R</del>	AVT	2	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	1.9	9300	635	6	.49	.39	.35	.29
261622	LT1873-81-UR-P22	LED	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9	1200	660	25	.25	.21	.19	.16
333447	UT1873-81-UR-P22 <del>R</del>	JVP	1	Super Red	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9	1600	660	25	.25	.21	.19	.16
2095171	RL50-PR543	JVP	1	Ult. Bright Red	Water clear	T1 3/4	0.197/5	0.30	1.02	0.10	1.7	8000	635	20	.39	.29	.19	.15
334482	UT1813-86-UC9T-P27 <del>R</del>	JVP	2	Ult. Bright Red	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.2	3500	630	15	.49	.45	.35	.29
197683	BVT-5E1QT4ER	JVP	2	Orange Red	Water clear	T1 3/4	0.197/5	0.29	1.08	0.08	2.3	4650	634	15	.59	.55	.45	.39
2006799	LTL-2R3VYKNT <del>R</del>	LTO	2	Orange	Water clear, flanged	T1 3/4	0.197/5	0.34	0.87	0.10	2.0	1300	595	30	*	.15	.12	.10
333665	LEF3833 <del>R</del>	JVP	2	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	1700	620	12	.25	.22	.19	.15
333649	LHE3333 <del>R</del>	JVP	2	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	1800	620	20	*	.19	.15	.12
333657	LUE3333 <del>R</del>	JVP	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.1	3400	620	20	.39	.35	.25	.19
333673	LUE3833 <del>R</del>	JVP	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.1	5000	620	12	.45	.39	.29	.25
333577	LUY3333 <del>R</del>	JVP	2	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2700	587	20	.35	.29	.25	.19
333614	LUY3833H <del>R</del>	JVP	2	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	5000	590	12	.45	.39	.29	.25
333569	LUY3333/A <del>R</del> *	JVP	2	Yellow	Water clear	T1 3/4	0.197/5	0.35	1.00	0.10	1.7	1500	595	20	*	.15	.12	.10
333593	LUY13533 <del>R</del>	JVP	2	Yellow	Water clear	T1 3/4	0.197/5	0.35	1.00	0.10	1.7	1500	595	20	.29	.25	.19	.15
333606	LHY3833 <del>R</del>	JVP	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.1	2700	595	12	.29	.25	.19	.15
197675	BVT-5E1TT4E <del>R</del>	JVP	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	2.3	7800	592	15	.45	.39	.35	.29
2095189	RL50-PY543	JVP	1	Ultra Yellow	Water clear	T1 3/4	0.197/5	0.30	1.02	0.10	1.7	8000	595	20	.39	.29	.19	.15
2006772	LTL-2H3VYKNJ1 <del>R</del>	LTO	2	Amber/Yellow	Water clear, flanged	T1 3/4	0.197/5	0.34	0.87	0.10	2.0	3400	595	15	*	.15	.12	.10
2006781	LTL-2R3SYKS	LTO	2	Amber	Water clear, flanged	T1 3/4	0.197/5	0.34	0.87	0.10	2.2	2800	594	30	.39	.35	.25	.19
334473	LDGL3333/H0 <del>R</del>	JVP	2	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	3400	502	22	.79	.69	.65	.59
183214	MCDPG-503PC1 <del>R</del>	JVP	2	Green	Water clear	T1 3/4	0.197/5	0.30	1.04	0.08	3.5	2200	515	10-15	1.49	1.35	1.19	1.09
1586197	UT4123-4D-UBC	LED	2	Green	Water clear	T1 3/4	0.197/5	0.32	1.00	0.10	3.0	2500	500	28	.45	.39	.35	.29
2077079	HLM-P CM39-UV CDD	AGT	1	Green	Untinted/non-diffused	T1 3/4	0.197/5	0.34	0.94	0.10	3.2	5000	535	30	.49	.45	.39	.35
183222	MCDL-513SBC4 <del>R</del>	JVP	2	Blue	Water clear	T1 3/4	0.197/5	0.29	1.02	0.08	3.6	3000	470	25	1.39	1.25	1.09	.99
334502	LWK3333 <del>R</del>	JVP	2	White	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	5000	—	16	.89	.79	.65	.59
334773	UT18W3-86-UAF1-P22 <del>R</del>	JVP	2	White	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	3.6	2900	—	25	1.35	1.25	1.09	.99
183231	BVU-5C14WK4-B	JVP	2	White	Water clear	T1 3/4	0.197/5	0.30	1.06	0.08	3.5	3000	—	10	1.35	1.25	1.09	.99
142894	BVU-5E1WK4-B <del>R</del>	JVP	2	White	Water clear	T1 3/4	0.197/5	0.34	0.79	0.08	3.5	3700	—	15	1.35	1.25	1.09	.99
1870796	MV8W00	FSC	2	White	Water clear	T1 3/4	0.197/5	0.33	1.00	0.10	3.8	2500	—	20	2.49	2.29	2.09	1.95
320531	MCDL-5013UWC <del>R</del>	JVP	2	White	Water clear	T1 3/4	0.197/5	0.30	1.00	0.10	3.8	5000	—	15	.99	.89	.75	.65
2077061	EM-503QWC-R12	JVP	1	White	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	4.5	5000	—	25	.99	.89	.75	.65
2115493	UT5HW3-4D-URC1-4861-R	LED	2	White	Water clear	T1 3/4	0.197/5	0.30	1.00	0.10	4.0	7000	—	30	1.19	1.09	.95	.79
2005702	LTL912VEKSA <del>R</del>	LTO	3	Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.1	1200	632	50	.49	.45	.35	.29
664405	MCDL-1860UEC-TL <del>R</del>	JVP	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	3200	625	75	.49	.45	.35	.29
195222	LTL912SEKSA <del>R</del>	LTO	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.5	3750	628	60	.49	.45	.35	.29
664413	MCDL-1870UEC-TL <del>R</del>	JVP	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	625	40	.85	.75	.59	.55
2005690	LTL911VYKSA	LTO	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.1	600	595	70	.29	.25	.19	.15
2005729	LTL9145YKS	LTO	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.5	2000	596	70	.59	.55	.45	.39
404603	MCDL-1860UGC-TL <del>R</del>	JVP	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	525	75	1.35	1.25	1.09	.99
664376	MCDL-1870UGC-TL <del>R</del>	JVP	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	7500	525	30	1.49	1.35	1.19	1.09
404591	MCDL-1860UBC-15C <del>R</del>	JVP	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	75	1.49	1.35	1.19	1.09
664368	MCDL-1870UBC-TL <del>R</del>	JVP	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2300	470	40	1.35	1.25	1.09	.99
664341	MCDL-1870UWC-15C <del>R</del>	JVP	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	6500	—	40	1.69	1.55	1.39	1.29
404582	MCDL-1860UWC-15C <del>R</del>	JVP	3	Ultra White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	—	75	1.69	1.55	1.39	1.29
2005737	LTJ-811Y	LTO	4	Yellow	Sphere lens (12-pin)	20mm dome	0.8/20	0.91	0.53	0.60	2.1	25	565	30	.49	.45	.35	.29

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30

• Blue Part No. = Limited Quantity Available

\* AGT = Agilent | AVT = Avago Technology | FSC = Fairchild Semiconductor | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite-On

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).



Opto

## Surface Mount LEDs

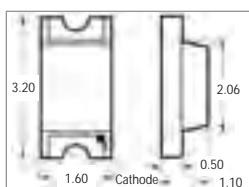


Fig. 1 - 1206

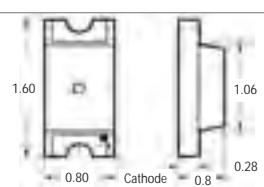


Fig. 2 - 0603

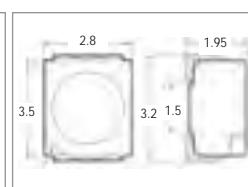


Fig. 3 - PLCC-2

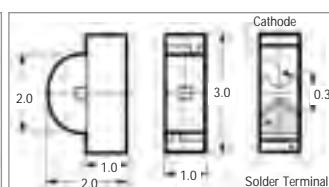


Fig. 4 - 1208 Right Angle

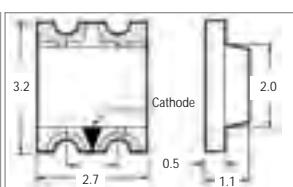


Fig. 5 - 1210

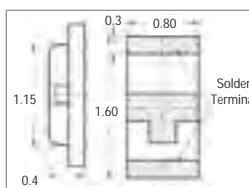


Fig. 6 - 0603 Super Thin

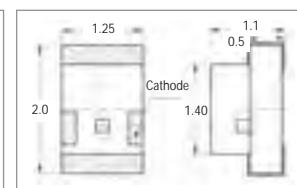


Fig. 7 - 0805

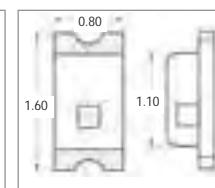


Fig. 8 - 0603 Super Thin

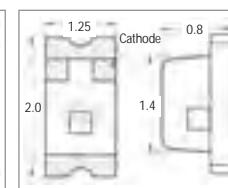


Fig. 9 - 0805 Super Thin

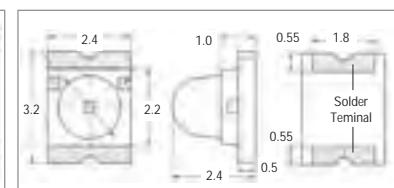


Fig. 10 - Dome

\* Web Code: SSM

\* Order in multiples of 10

## Standard Surface Mount LEDs

Part No.	Mfr. Part No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	Typical Vf (V)	If Max. (mA)	Iv Typical mcd @ mA	Peak Wavelength (nm)	Viewing Angle (2x Theta)	Pricing			
											1	10	100	1000
1556414	HSMH-C150R	AVT	1	Red	Water clear	1.8	20	17 @ 20	630	130	*	\$ .10	\$ .08	\$ .06
697733	LTST-C150CKT	LTO	1	Red	Water clear	1.8	40	25 @ 20	660	130	*	.09	.07	.06
1556422	HSMH-C170R	AVT	1	Red	Water clear	1.8	20	17 @ 20	660	170	*	.10	.08	.06
1260357	LTST-C190CKT	LTO	2	Red	Water clear	1.8	40	10 @ 10	660	130	*	.07	.05	.03
1556431	HSMH-C190R	AVT	2	Red	Water clear	1.8	20	17 @ 20	610	170	*	.10	.08	.06
658321	HSL-204DR	UNI	3	Red	Water clear	1.8	20	50 @ 20	657	130	*	.19	.15	.12
1557054	HSMS-C660R	AVT	4	Red	Water clear	1.9	20	5 @ 20	639	155	*	.19	.15	.12
334318	LG-150E-DT	JVP	1	Hi-eff Red	White diffused	1.7	20	8 @ 10	643	150	*	.10	.08	.06
1556300	HSMF-C155R	AVT	5	Hi-eff Red/Green	Water clear	2.1/2.2	20/20	10/15 @ 20	630/570	170/170	*	.19	.15	.12
1260365	LTST-C150EKT	LTO	2	Red Orange	Water clear	2.0	30	2 @ 10	630	130	*	.06	.04	.03
1996111	LTST-C150YKT	LTO	1	Yellow	Water clear	2.1	20	6 @ 10	585	130	*	.07	.05	.03
334351	YT95531/TRI	LIG	3	Yellow	Water clear	1.7	20	7 @ 10	585	84	*	.12	.10	.08
334289	LG150E-CT	JVP	1	Orange	Water clear	1.7	20	6 @ 20	635	150	*	.10	.08	.06
697741	LTST-C150GKT	LTO	1	Green	Water clear	2.1	30	6 @ 10	565	130	*	.10	.08	.07
334369	LVG9553/TRI	LIG	3	Green	Water clear	1.7	20	9 @ 10	565	84	*	.15	.12	.10
1556406	HSMG-C660R	AVT	4	Green	Water clear	2.2	20	9 @ 20	570	155	.29	.25	.19	.15
2046441	LTST-C150CBKT	LTO	1	Blue	Water clear	3.7	20	20 @ 20	468	130	.39	.35	.25	.19
334781	LG-150DBK-CT	JVP	1	Blue	Water clear	3.5	20	40 @ 20	470	150	.49	.45	.39	.35
2047945	LTST-C191TBKT	LTO	5	Blue	Water clear	3.4	20	30 @ 20	468	130	.29	.19	.15	.12
2033164	LTW-C193TS5	LTO	6	White	Water clear	2.95	20	78 @ 5	—	130	*	.19	.15	.12
334756	LT5KW3-AA-UAE3	JVP	3	White	Water clear	3.2	20	750 @ 20	—	120	.59	.49	.39	.35
658347	HSL-204MW	UNI	3	White	Water clear	3.5	20	400 @ 20	—	130	.69	.59	.49	.39

## Ultra-Bright AllInGaP Surface Mount LEDs

\* Web Code: UBA

\* Order in multiples of 10

Part No.	Mfr. Part No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	Typical Vf (V)	If Max. (mA)	Iv Typical mcd @ mA	Peak Wavelength (nm)	Viewing Angle (2x Theta)	Pricing			
											1	10	100	1000
658312	MSL-154DR	UNI	1	Red	Water clear	1.8	20	22.5 @ 20	660	130	*	\$ .12	\$ .10	\$ .08
658304	MSL-174DR	UNI	3	Red	Water clear	1.8	20	22.5 @ 20	660	130	*	.09	.07	.06
658291	MSL-194DR	UNI	2	Red	Water clear	1.8	20	22.5 @ 20	660	130	*	.10	.08	.06
697750	LTST-C150KRKT	LTO	1	Super Red	Water clear	2.0	30	54 @ 20	639	130	*	.12	.10	.08
1557020	HSMS-C150R	AVT	1	Hi-eff Red	Water clear	2.1	20	10 @ 20	595	130	*	.12	.10	.08
1557046	HSMS-C190R	AVT	2	Hi-eff Red	Water clear	2.1	30	10 @ 20	630	130	*	.12	.10	.08
1557071	HSMY-C150R	AVT	1	Yellow	Water clear	2.1	20	8 @ 20	589	130	*	.12	.10	.08
697792	LTST-C170KYKT	LTO	7	Yellow	Water clear	2.0	20	50 @ 20	595	130	*	.10	.08	.07
1556369	HSMG-C150R	AVT	1	Green	Water clear	2.2	20	15 @ 20	570	170	*	.12	.10	.08
2039902	LTST-C150FKT	LTO	1	Green	Water clear	2.1	20	14.2 @ 20	565	130	*	.15	.12	.10
697776	LTST-C170KGKT	LTO	7	Green	Water clear	2.0	30	35 @ 20	574	130	*	.12	.10	.08
1556385	HSMG-C190R	AVT	2	Green	Water clear	2.2	20	15 @ 20	570	130	*	.12	.10	.08
1556211	HSMC-A100-000J	AVT	3	Red	Water clear	1.9	20	100 @ 20	635	120	*	.15	.12	.10
1585101	HSMC-A100-R00J	AVT	3	Red	Water clear	3.9	20	140 @ 20	639	120	*	.19	.15	.12

© Blue Part No. = Limited Quantity Available

\* AVT = Avago Technology | JVP = Jameco ValuePro | LIG = Ligitek | LTO = Lite-On | UNI = Unity Opto Technology

Ultra-Bright AllInGaP SMT LEDs continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



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29

# SMT LEDs, LED Hardware & Accessories

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## Surface Mount LEDs (Continued)

### Ultra-Bright AllInGaP Surface Mount LEDs (Continued)

Figure images on previous page Fig. 11



★ Web Code: UBA

\* Order in multiples of 10

Part No.	Mfr. Part No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	Typical Vf (V)	If Max. (mA)	Iv Typical mcd @ mA	Peak Wavelength (nm)	Viewing Angle (2x Theta)	Pricing			
											1	10	100	500
658339	MSL-204UYL	UNI	3	Yellow	Water clear	2.0	20	120 @ 20	592	120	*	\$1.19	\$1.15	\$1.12
1585055	HSMA-A100-Q00J1	AVT	3	Yellow Amber	Water clear	2.1	20	100 @ 20	592	120	*	.10	.09	.08
1556342	HSMG-A100-J02J1	AVT	3	Yellow Green	Water clear	2.2	20	18 @ 20	565	120	*	.10	.09	.08
1585063	HSMA-A101-S3WJ1	AVT	3	Amber	Water clear	2.1	20	220 @ 20	592	120	*	.15	.12	.10
692537	MSL-204G	UNI	3	Green	Water clear	2.1	20	120 @ 20	570	120	*	.13	.12	.10
658355	MSL-204MB	UNI	3	Blue	Water clear	3.5	20	120 @ 20	468	120	.49	.45	.39	.35
2075671	LTST-C191AKT	LTO	8	Orange	Water clear	2.1	20	2 @ 10	610	130	*	.05	.04	.03
2075680	LTST-C191KSCT	LTO	8	Yellow	Water clear	2.1	20	4.5 @ 10	585	130	*	.07	.06	.05
2075612	LTST-C171KEKT	LTO	9	Red	Water clear	2.0	20	50 @ 20	632	130	*	.07	.06	.05
2075639	LTST-C171KSCT	LTO	9	Yellow	Water clear	2.0	30	60 @ 20	588	130	*	.07	.06	.05
2075621	LTST-C171KYKT	LTO	9	Amber Yellow	Water clear	2.0	30	50 @ 20	595	130	*	.07	.06	.05
2075663	LTST-C190KFKT	LTO	9	Amber	Water clear	2.0	30	60 @ 20	611	130	*	.05	.04	.03
2075701	LTST-C930KAKT	LTO	10	Red Orange	Water clear	2.0	30	1050 @ 10	621	25	*	.07	.06	.05
2081967	LAW57B-GX-2	♦	11	Amber*	Water clear	2.2	400	6500 @ 400	614	120	.95	.85	.75	.65

\* Heat sink required; use P/N 326596 heat sink, P/N 236823 compound and P/N 1582575 insulator pg 24



### Conxrite Locking Header

This locking header provides positive locking between PCB and cable assembly.

★ Web Code: KAL



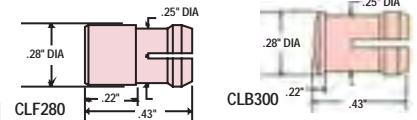
Part No.	Mfr. Part No.	Description	1	10	100	500
417682	CNXH03NTP	Horizontal 3-pin	\$.29	\$.25	\$.19	\$.17



### T1 1 4 Cliplite® LED Lens Mounts

Standard CLF280 and low profile CLB300 provide 180° viewing angle. Colors: red and clear.

★ Web Code: UAK



\* Order in multiples of 10

Part No.	Mfr. Part No.	Size	Color	1	10	100	1000
417818	SML190RTP	T1	Red	*	\$1.19	\$1.15	\$1.12
29612	CLF280RTP	T1 1/4	Red	.29	.25	.21	.19
14277	CLF280CTP	T1 1/4	Clear	.29	.25	.19	.16
124927	CLB300CTP	T1 1/4	Clear	.29	.25	.21	.19

### Conxrite Pre-Wired Solderless LED Interconnect

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB.



★ Web Code: UAK

For complete specifications see [www.Jameco.com](http://www.Jameco.com)

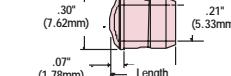
Part No.	Mfr. Part No.	LED Size	Termination (leads)	Length	1	10	100
417391	CNXBE2124	T1 (3mm)	2-pin connector	24"	\$1.95	\$1.75	\$1.49
417501	CNXCE2112	T1 1/4 (5mm)	Stripped leads (2)	12"	1.49	1.35	1.19
143037	CNXCE2108	T1 1/4 (5mm)	2-pin connector	8"	1.95	1.75	1.59
417463	CNXCE2112	T1 1/4 (5mm)	2-pin connector	12"	1.49	1.25	.99
143053	CNXCE2118	T1 1/4 (5mm)	2-pin connector	18"	2.49	2.25	1.95
673820	CNX440-X02-4-108A	T1 1/4 (5mm)	2-pin conn. (twist fit)	8"	2.49	2.25	1.95
417607	CNXDX2612	T1 1/4 (5mm)	Stripped leads (3)	12"	1.25	.99	.79
417615	CNXDX2618	T1 1/4 (5mm)	Stripped leads (3)	18"	1.29	1.09	.89
417535	CNXDF2604	T1 1/4 (5mm)	3-pin connector	4"	1.39	1.25	1.09
417560	CNXDF2618	T1 1/4 (5mm)	3-pin connector	18"	1.49	1.25	1.09
417578	CNXDF2624	T1 1/4 (5mm)	3-pin connector	24"	1.59	1.35	1.19



### Panel Lens for PCB Mounted T1 1/4 LED

T1-3/4 size low-profile panel lenses provide 180° viewing angle.

★ Web Code: UAK



Part No.	Mfr. Part No.	Size	Color	Length	1	10	100
143132	CMC321CTP	T1 1/4	Clear	.33"	\$.29	\$.25	\$.21

\* AVT = Avago | JVP = Jameco ValuePro | LIG = Ligitek | LTO = Lite-On | UNI = Unity Opto Tech. | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#)

Figure images on previous page Fig. 11



★ Web Code: UBA

\* Order in multiples of 10

### T1 & T1 1/4 LED Mounting Hardware

- Color: black
- Order in multiples of 10



★ Web Code: KAL

SAVE \$14

Part No.	Mfr. P/N	Mfr.	Description	Mounting Hole Dia.	Panel Thickness	10	100	1000
95513	LMH100	LIG	T1 snap-in	.185"	up to .070"	\$1.12	\$1.10	\$0.08
23077	LMH200	LIG	T1 1/4 ring/clip	.257"	up to .125"	.15	.14	.12
95521	LMH250	LIG	Rect. snap in	.306" x .202"	up to .092"	.09	.08	.07
379815	MCD-10MM	JVP	10mm snap in	.539"	up to .1025"	.25	.21	.15

### T1 & T1 1/4 LEDs & LED Mounting Hardware Kit (560 pcs.)

Includes: • 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and labels

SAVE \$14

- 10 ea. standard-output LEDs (34657, 114673), pg 25, 114681, 34606, 34825, 34711, 104248, 34690, 34673), pg 26 & (34761, 104256, 11359), pg 27 and LED lens mount (14277), left
- 100 ea. LEDs (202471), pg 25 & 2006730, pg 26
- 100 ea. LED mounting hardware (95513, 23077), above

NEW MARKED IN PINK

Part No.	Description	Wt. (lbs.)	1	5
84996	560-piece LEDs & LED hardware kit	5.0	\$69.95	\$59.95

### PHILIPS Titanium LED Driver Module

Titanium drivers from Advance deliver solid performance and reliability for 12V lighting system.

NEW MARKED IN PINK



Part No.	Description	1	5	25
2120233	12VDC/1A LED driver		\$19.95	\$17.95

### Ledtech 1" x 1.56" LED Backlight

- IC compatible
- D.C. forward current: 30mA
- Peak wavelength: 567nm @ 20mA
- View angle: 52°
- Forward voltage: (typical) 4.2V @ 20mA; (max) 6.0V @ 20mA
- Luminous intensity: (min) 14.9mcd @ 20mA; (typical) 24.8mcd @ 20mA

NEW MARKED IN PINK

NEW MARKED IN PINK

Part No.	Mfr. Part No.	LED Material	Emitting Color	Lens Color	1	10	100
302535	LT1F24-A2-S8	GaP	Green	G.C.	\$1.49	\$1.25	\$0.95

### 2-150mA T1 & T1 1/4 LED Tester

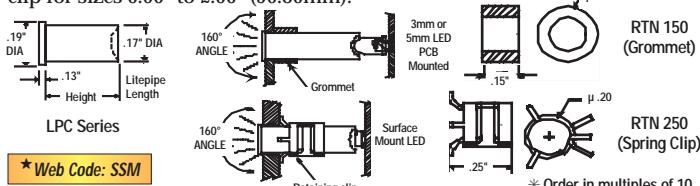
Plug any leaded LED into any 2 rows of sockets. 13.1" spaced positions test T1/T1 1/4 LEDs from 2 to 30mA; 13.2" spaced positions test larger footprint (high flux) LEDs from 20 to 150mA. Uses 9V battery (P/N 198731 - sold separately)

NEW MARKED IN PINK



## Litpipes For Standard and Surface-Mount LEDs

Designed to produce 160° viewing angle of transmitted light from PCB mounted LEDs. Accommodates both 0.119" (3mm) and surface mount LEDs. Litpipes are able to display single color devices or mix multi-colored LEDs into a single color. Sizes from 0.200" (5.08mm) to 2.00" (50.80mm). Use RTN grommet for sizes 0.20" thru 0.50" and RTN spring clip for sizes 0.50" to 2.00" (50.80mm).



\* Web Code: SSM

Part No.	Height	1	10	100
418108	0.20"	*	\$ .19	\$ .15
418116	0.22"	*	.19	.15
418132	0.26"	*	.19	.15
418141	0.28"	*	.19	.15
418159	0.30"	*	.19	.15
418167	0.32"	*	.19	.15
418183	0.36"	*	.19	.15
418191	0.38"	*	.19	.15
418212	0.42"	*	.19	.15
418239	0.46"	*	.19	.15
418247	0.48"	*	.19	.15

Order in multiples of 10

Part No.	Mfr. Part No.	Description	10	100	1000
418407	RTN150	Grommet	\$ .05	\$ .04	\$ .03
418415	RTN250	Spring clip	.05	.04	.03

Order in multiples of 10

## 3 & 10W Constant Current LED Drivers

- Type: AC – DC
- Input voltage: 100-240VAC @ 50-60Hz
- 3-watt LED drivers can drive 2 to 8 1W LEDs or 1 to 3 3W LEDs
- 10-watt LED drivers can drive 3 to 8 1W LEDs
- Operating temperature range: -20°C to 40°C
- UL/CUL/CE approved
- 2006852/2006861: 20AWG, 3.9" L wires
- 2006879/2006887: Plug in type, 7ft. cable w/ 2.1mm x 5.5mm center positive



Part No.	Mfr. Part No.	Description	Output Volt./Curr.	1	5
2006861	LD-CU7021AF	3-watt LED driver	3-21VDC @ 700mA	\$ 18.95	\$ 16.95
2006887	LD-PI7021AF	3-watt LED driver	3-21VDC @ 700mA	18.95	16.95
2006852	LD-CU3536AF	10-watt LED driver	3-36VDC @ 350mA	17.95	15.95
2006879	LD-PI3536AF	10-watt LED driver	3-36VDC @ 350mA	17.95	15.95

## Dual CCFL Kits

\* Web Code: CCF

This kit is a dual CCFL that comes with an inverting power supply (12VDC @ 5mA input; 620V output), wire harnesses and connectors for easy set-up.

- Lamp diameter: 3mm (protected inside a clear acrylic tube)
- Length per lamp: 300mm (12")
- Average lifespan: 30,000 hours
- Brightness: 30,000cd
- Lamp current: 5mA

Part No.	Mfr. Part No.	Color	1	5
2006975	CCFL2W	White	\$ 14.95	\$ 13.49
2006983	CCFL2R	Red	13.95	12.49
2007003	CCFL2UV	Ultra violet	14.95	13.49
2007011	CCFL2BU	Blue	14.95	13.49

See page 191 for Flashing LED Kits

JAMECO ValuePro

## MCD

## High Power LEDs

\* Web Code: HPL

- Superior high-flux output and high luminance
- We offer the Lambertian or 'High Dome' LED that has a high hemispherical dome with a wider 140° viewing angle. The high dome series project a wider but clearer light beam
- Use heat sink P/N 696714 and thermal compound P/N 236823
- Use insulator P/N 1582575 to isolate heat sink from case



Part No.	Mfr. Part No.	Power (W)	Color	Volt. @ Current (Vf @ If)	Luminous Flux (lm)	Viewing Angle (°)	Pricing		
							1	10	25
2006895	L-HP1PW	1	White	3.2 @ 350mA	40	90	\$ 7.95	\$ 7.25	\$ 6.49
2096780	MCDL-L20-350HPCW	1	White	3.2 @ 350mA	90	140	6.95	6.25	5.49
2096843	MCDL-L20-350HPCWS	1	White	3.2 @ 350mA	90	140	6.95	6.25	5.49
2096798	MCDL-L20-350HPWW	1	Warm white	3.2 @ 350mA	86	140	6.95	6.25	5.49
2096851	MCDL-L20-350HPWWS	1	Warm white	3.2 @ 350mA	86	140	7.95	6.95	6.25
2096819	MCDL-L20-350HPUY	1	Yellow	3.2 @ 350mA	40	140	5.95	5.49	4.95
2096886	MCDL-L20-350HPUYS	1	Yellow	3.2 @ 350mA	40	140	6.95	6.25	5.49
2096827	MCDL-L20-350HPPG	1	Green	3.6 @ 350mA	70	140	6.95	6.25	5.49
2096974	MCDL-L20-350HPPGS	1	Green	3.6 @ 350mA	70	140	7.95	6.95	6.25
2006908	L-HP3PW	3	White	3.2 @ 1A	120	90	14.95	13.49	11.95

† Represents Star form factor with heat sink

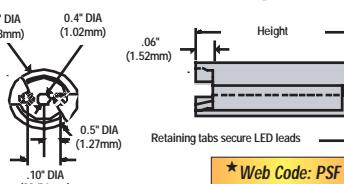
\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



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## LED PCB Standoffs for 2 & 3-Lead Components

Designed for PCB mounting of multi-lead devices (e.g. LEDs, resistors, capacitors, diodes, and IR emitter/detector lamps). Provide lead separation, retention and lateral stability, and height control. Standoffs vary in height from 0.12" to 1.00". Standoffs are UL94V0 material.



\* Web Code: PSF  
Order in multiples of 10

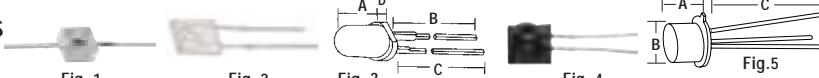
Part No.	Height	10	100	1000	Part No.	Height	10	100	1000
418431	0.14"	\$ .05	\$ .04	\$ .03	418618	0.48"	\$ .05	\$ .04	\$ .03
418458	0.18"	.05	.04	.03	418626	0.50"	.05	.04	.03
418474	0.22"	.05	.04	.03	418642	0.60"	.05	.04	.03
418503	0.26"	.05	.04	.03	418651	0.65"	.05	.04	.03
418511	0.28"	.05	.04	.03	418677	0.75"	.05	.04	.03
418520	0.30"	.05	.04	.03	418685	0.80"	.05	.04	.03
418546	0.34"	.05	.04	.03	418693	0.85"	.05	.04	.03
418554	0.36"	.05	.04	.03	418706	0.90"	.05	.04	.03
418589	0.42"	.05	.04	.03	418714	0.95"	.05	.04	.03
418597	0.44"	.05	.04	.03	418722	1.00"	.05	.04	.03



## Infrared & Visible Light Emitters & Detectors

• Use for remote control  
and/or for fiber optics

\* Web Code: VAP



Opto

Part No.	Product No.	*Mfr.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vf @ If	nm	mWatts	Pricing		
							A	B	C	D				1	10	100
2099403	PS5022	STA	1	Phototransistor	Dome	0.06/1.7	0.13	0.35	0.35	—	5.0 @ 20mA	880	1	*	\$1.15	\$1.12
790057	LTE-302	LTO	2	Infrared emitter diode (GaAs) side look	Dome	0.06/1.5	0.23	0.63	0.63	0.18	1.2 @ 20mA	940	40	*	.19	.15
112150	LIR2043R	LIG	3	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2 @ 20mA	940	5	*	.19	.15
372710	UT0383-41-940	JVP	3	Infrared emitter diode (GaAs)	T1	0.125/3	0.16	0.88	0.94	0.04	1.3 @ 50mA	940	13	.29	.25	.19
1950825	L-34F3CSR	♦	3	Infrared emitter diode (GaAs)	T1	0.125/3	0.20	1.00	1.06	0.04	1.2 @ 20mA	940	80	.39	.35	.29
112176	LPT2023R	LIG	3	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	30 @ 0.1A	940	100	.39	.35	.29
1872265	OP505A	OPT	3	Infrared silicon phototransistor	T1	0.125/3.2	0.20	0.50	0.50	0.03	30VBRCEO @ 100µA	850	100	.79	.65	.59
1950649	BPV22NF(L)	OPT	4	High speed photo diode	T1 3/4	0.195/5	0.24	1.00	1.00	—	1.0 @ 50mA	940	215	.65	.59	.49
1623349	SFH484-2R	SYL	3	Infrared emitter diode	T1 3/4	0.197/5	0.30	0.50	1.14	1.07	1.5 @ 100mA	880	25	.79	.69	.59
372737	UT1883-81-880R	JVP	3	Infrared emitter diode (GaAs) water clear	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5 @ 50mA	880	16	.35	.29	.25
372745	UT1885-81-880R	JVP	3	Infrared emitter diode (GaAs) blue clear	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5 @ 50mA	880	16	.39	.35	.29
1872151	OP290A	OPT	3	Infrared emitter diode	T1 3/4	0.195/5	0.30	0.75	1.00	0.04	4.0 @ 1.5A	890	333	1.09	.89	.69
106526	LVIR3333R	LIG	3	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.34	0.78	0.84	0.04	1.2 @ 20mA	940	8	*	.19	.15
372762	UT1883-81-940R	JVP	3	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.3 @ 50mA	940	16	.35	.29	.19
1950622	TSHA5502	VSH	3	Infrared emitter diode (GaAlAs)	T1 3/4	0.200/5	0.30	0.97	1.04	0.04	1.5 @ 1mA	870	210	.59	.49	.39
2100224	LTE-3371LT	LTO	3	Infrared emitter diode (GaAlAs)	T1 3/4	0.197/5	0.30	0.98	1.02	0.04	1.25 @ 50mA	940	150	.39	.35	.29
373001	UT1893-91-0125R	JVP	3	Infrared phototransistor	T1 3/4	0.200/5	0.34	0.88	0.94	0.04	30 @ 0.1A	870	20	.29	.25	.19
112169	UT1893-82-0125-R	LED	3	Infrared phototransistor	T1 3/4	0.200/5	0.31	1.05	1.10	0.04	30 @ 0.1A	940	20	.35	.29	.25
1872441	OP999R	OPT	3	PIN silicon photodiode	T1 3/4	0.205/5.3	0.31	0.69	0.75	0.04	1.2 @ 1mA	200	100	.99	.89	.79
120221	BPW77NA	♦	5	NPN phototransistor	TO-18	0.18/4.69	0.24	0.19	0.52	0.01	70VCEO @ 50mA	850	250	1.95	1.75	1.49

## 7 & 14-Segment LED Displays

\* Web Code: PBW



## Single Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
1955677	Lite-On	LTS-2801AG	0.28"	Green	CA	10	2.0 @ 10	0.1 @ 5	565	RHDP	.69	.59	.49
24732	MCD	GNS-3011BH-11R	0.30"	Red	CA	10	1.9 @ 20	0.3 @ 20	697	LHDP/RHDP	.89	.79	.65
24783	MCD	GNS-3011CH-11R	0.30"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.89	.79	.65
24782	Ligtek	LSD3211-11R	0.30"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
24740	Ligtek	LSD3221-11R	0.30"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
334984	ValuePro	UA3051-12R	0.30"	Red	CA	11	2.1 @ 20	0.8 @ 10	700	RHDP	.89	.79	.65
334800	ValuePro	UC3051-11R	0.30"	Red	CC	10	2.1 @ 20	0.8 @ 10	700	RHDP	.85	.75	.65
334802	ValuePro	UC3041R-11R	0.30"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.85	.75	.65
1548027	Avago	5082-7611R	0.30	Hi-eff Red	CA	11	2.1 @ 20	0.8 @ 5	635	RHDP	2.75	2.49	2.25
789953	Lite-On	LSDH-7501R	0.30"	AllnGap Red	CA	10	2.1 @ 20	12 @ 10	632	RHDP	.99	.89	.79
2082265	ValuePro	MAN3620A	0.30"	Orange	CA	11	2.5 @ 20	3.3 @ 10	630	LHDP	.79	.69	.55
335011	ValuePro	UA3041-12	0.30"	Orange	CA	11	2.1 @ 20	3.3 @ 10	635	RHDP	.89	.79	.65
320469	ValuePro	UA3031-16-EWRN	0.30"	Yellow	CA	11	3.0 @ 20	2.3 @ 10	585	LHDP/RHDP	.89	.79	.65
2079226	Ligtek	LSD3352-20/RP4R	0.32"	Green	CC	14	2.1 @ 20	3.5 @ 10	565	RHDP	.89	.79	.69
2075698	Ligtek	LSD3362-20/RP4R	0.32"	Green	CA	14	2.1 @ 20	3.5 @ 10	565	RHDP	.89	.79	.69
1955714	Lite-On	LTS-367R	0.36"	Red	CC	10	1.7 @ 20	0.5 @ 10	655	RHDP	.89	.79	.65
1955722	Lite-On	LTS-4801R	0.40"	Red	CA	10	1.7 @ 20	0.5 @ 10	655	RHDP	.89	.79	.65
1955731	Lite-On	LTS-4301R	0.40"	Red	CC	10	1.7 @ 20	0.5 @ 10	655	RHDP	.89	.79	.65
334844	ValuePro	UC4041R-11	0.40"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.89	.79	.65
2005411	Lite-On	LTS-4980AHR	0.40"	Hi-eff Red	CC	14	2.1 @ 20	2.2 @ 10	635	RHDP	.59	.49	.39
335038	ValuePro	UA4021-11	0.40"	Green	CA	10	2.1 @ 20	2.9 @ 10	567	RHDP	.99	.89	.75
1996081	Lite-On	LTS-4510AGR	0.40"	Green	CA	14	2.1 @ 20	2.2 @ 10	565	RHDP	1.09	.99	.89
2075719	Ligtek	LSD4012-20A	0.40"	Green	CC	14	2.1 @ 20	2.5 @ 10	565	RHDP	1.09	.99	.89
2075727	Ligtek	LSD401SBKS-20A	0.40"	Blue	CC	14	3.5 @ 20	12.8 @ 10	460	RHDP	2.59	2.35	2.09
17209	MCD	GNS-5011BH-11	0.50"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.09	.99	.89
17187	Ligtek	LSD5051-11R	0.50"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.09	.99	.89
1955749	Lite-On	LTS-5301AR	0.56"	Red	CA	10	1.7 @ 20	0.6 @ 10	655	RHDP	.99	.89	.79
1955757	Lite-On	LTS-6780R	0.56"	Red	CC	10	1.7 @ 20	0.6 @ 10	655	RHDP	.99	.89	.79
335090	ValuePro	UA5651-11R	0.56"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.09	.99	.89
2005438	Lite-On	LTS-5503C	0.56"	AllnGap Red	CC	10	2.1 @ 20	17 @ 10	632	RHDP	1.09	.99	.89
1955765	Lite-On	LTS-6760P	0.56"	Bright Red	CA	10	2.1 @ 20	0.95 @ 10	697	RHDP	1.19	1.09	.99

\* CA=Common Anode/CC=Common Cathode

# LHDP=Left Hand Decimal Point/RHDP=Right Hand Decimal Point

© Blue P/N = Limited Qty. Avail.

7-Segment Numeric LED Displays continued on next page

\* JVP = Jameco ValuePro | LED = Ledtech | LIG = Ligtek | LTO = Lite-On | OPT = Optek | STA = Stanley | SYL = Sylvania | VSH = Vishay | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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# 7 & 14-Segment LED Displays

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## 7 & 14-Segment LED Displays (Continued)

### Single Digit 7-Segment Numeric LED Displays (Continued)

See Page 33 for photos

\* Web Code: PBW

Optos

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
334896	ValuePro	UC5641R-11R	0.56"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	\$ .99	\$ .89	\$ .79
335101	ValuePro	UA5641R-11R	0.56"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.99	.89	.79
1584335	Avago	HDSP-5501-GH000R	0.56"	Hi-eff Red	CA	10	2.1 @ 20	2.8 @ 10	635	RHDP	1.95	1.75	1.49
104213	Ligitek	LSD5124-10R	0.56"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.99	.89	.79
335312	ValuePro	UA5641-11-EWRN	0.56"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.99	.89	.79
334880	ValuePro	UC5641-11-EWRNR	0.56"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.99	.89	.79
1955773	Lite-On	LTS-6680E	0.56"	Orange	CC	10	2.1 @ 20	2.4 @ 10	630	RHDP	.99	.89	.79
1955790	Lite-On	LTS-6860Y	0.56"	Yellow	CA	10	2.1 @ 20	2.4 @ 10	585	RHDP	.99	.89	.79
335127	ValuePro	UA5621-11R	0.56"	Green	CA	10	2.1 @ 20	2.9 @ 10	562	RHDP	.99	.89	.79
334862	Ledtech	UC5621-11R	0.56"	Green	CC	10	2.1 @ 20	2.9 @ 10	567	RHDP	.99	.89	.79
2075735	Ligitek	LSD5122-20/A	0.56"	Green	CA	10	2.1 @ 20	4.5 @ 10	565	RHDP	.99	.89	.79
2075751	Ligitek	LSD5112-20/A	0.56"	Green	CC	10	2.1 @ 20	4.5 @ 10	565	RHDP	.99	.89	.79
2075760	Ligitek	LSD512SBKS-20R	0.56"	Blue	CA	10	3.5 @ 20	12.8 @ 10	460	RHDP	2.49	2.25	1.95
1955829	Lite-On	LTS-3403AP	0.80"	Red Gap	CC	18	2.1 @ 20	0.95 @ 10	697	LHDP/RHDP	1.09	.99	.89
18753	Ligitek	LSD8151-10R	0.80"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP	1.25	1.15	.99
1955811	Lite-On	LTS-3401LC	0.80"	Red Gap	CA	18	1.8 @ 20	8.0 @ 10	660	LHDP/RHDP	1.09	.99	.89
18737	Ligitek	LSD8164-20R	0.80"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	1.25	1.15	.99
2005462	Lite-On	LTS-3401LE	0.80"	Yellow	CA	18	2.1 @ 20	2.4 @ 10	630	LHDP/RHDP	1.25	1.15	.99
1955837	Lite-On	LTS-3403LY	0.80"	Yellow	CC	18	2.1 @ 20	2.4 @ 10	585	LHDP/RHDP	1.25	1.15	.99
2005489	Lite-On	LTS-3401LG	0.80"	Green	CA	18	2.1 @ 20	2.4 @ 10	565	LHDP/RHDP	1.25	1.15	.99
176559	Re Fac	C8021-1	0.80"	Green	CC	13	2.0 @ 20	0.9 @ 20	568	RHDP	1.25	1.15	.99
97172	Ligitek	LSD10061-10R	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	1.75	1.49	1.25
308161	Ledtech	LA2541-24EWRN	1.0"	Orange	CA	10	4.2 @ 20	5.2 @ 10	635	RHDP	1.75	1.49	1.25
97199	Ligitek	LSD23265-10R	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.59
97201	Ligitek	LSD23255-10R	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.59
105591	Ligitek	LSD40054-20R	4.00"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	8.95	7.95	7.15

### Single Digit 14-Segment Alphanumeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
2076703	Ligitek	LSD3E62-20/A	0.39"	Green	CA	16	2.1 @ 20	3.05 @ 10	565	RHDP	\$ 1.69	\$ 1.39	\$ 1.19
2076691	Ligitek	LSD3E6SBKS-20/A	0.39"	Blue	CA	16	3.5 @ 20	7.2 @ 10	475	RHDP	3.95	3.59	3.19

### 2-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
1955781	Lite-On	LTD-2701WC	0.28"	Red	CC	10	1.8 @ 20	3.1 @ 5	660	RHDP	\$ 1.25	\$ 1.09	\$ .99
1955845	Lite-On	LTD-383E-R2	0.30"	Red Orange	CA	16	2.0 @ 20	1.6 @ 10	630	RHDP	1.25	1.09	.99
1955853	Lite-On	LTD-482P-YO	0.40"	Bright Red	CA	16	2.1 @ 20	0.8 @ 10	697	RHDP	1.25	1.09	.99
2075786	Ligitek	LDD4062-20/A	0.40"	Green	CA	16	2.1 @ 20	3.05 @ 10	565	RHDP	1.49	1.35	1.15
1955861	Lite-On	LTD-432GC	0.40"	Green	CC	16	2.1 @ 20	1.1 @ 10	565	No DP	1.49	1.35	1.15
2005340	Lite-On	LTD-4608B	0.40"	Blue	CA	10	3.8 @ 20	3.6 @ 10	428	RHDP	3.95	3.59	3.39
200379	Rohm	LB602VAG1	0.56"	Red	CA	18	2.0 @ 10	16 @ 10	650	RHDP	1.25	1.09	.99
24715	Ligitek	LDD5121-20R	0.56"	Red	CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.59	1.39	1.19
24723	Ligitek	LDD5111-11R	0.56"	Red	CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.59	1.39	1.19
24694	Ligitek	LDD5124R	0.56"	Orange Red	CA	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.39	1.19
24707	Ligitek	LDD5114-20R	0.56"	Orange Red	CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.39	1.19
790031	Lite-On	LTD-6940HR	0.56"	Hi-eff Red	CC	18	2.0 @ 20	2.4 @ 10	623	RHDP	1.69	1.49	1.25
334976	ValuePro	UA5642R-11R	0.56"	Hi-eff Red	CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.59	1.29	1.19
200539	Arctic	ELD556YWA	0.56"	Yellow	CA	18	2.0 @ 20	1.9 @ 10	590	RHDP	1.25	1.09	.99
790022	Lite-On	LTD-6410AG	0.56"	Green	CA	18	2.1 @ 20	2.4 @ 10	565	RHDP	1.59	1.39	1.19
2005358	Lite-On	LTD-5623BG	0.56"	Green	CC	18	2.1 @ 20	2.4 @ 10	565	RHDP	1.59	1.39	1.19
2005366	Lite-On	LTD-6440G	0.56"	Green	CC	18	2.1 @ 20	2.4 @ 10	570	RHDP	1.59	1.39	1.19
2075794	Ligitek	LDD512SBKS-20/A	0.56"	Blue	CA	18	3.5 @ 20	58 @ 10	475	RHDP	4.95	4.49	3.95

\* CA=Common Anode/CC=Common Cathode # LHD-P-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † 5 diodes per segment • Blue Part No. = Limited Quantity Available

• RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## 7 & 14-Segment LED Displays (Continued)

### 2-Digit 14-Segment Alphanumeric LED Displays

[See Page 33 for photos](#)

\* Web Code: PBW

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
2005382	Lite-On	LTP-4323P	0.40"	Bright Red	CC	20	2.1 @ 20	0.75 @ 10	697	RHDP	\$1.95	\$1.75	\$1.49
2005391	Lite-On	LTP-4323JD	0.40"	AllnGap Hyper Red	CC	20	2.1 @ 20	0.65 @ 10	650	RHDP	2.49	2.25	1.95
1955870	Lite-On	LTP-4323G	0.40"	Green	CC	20	2.1 @ 20	2.0 @ 10	569	RHDP	2.49	2.25	1.95
1955896	Lite-On	LTP-3786S-03	0.54"	AlGaAs Red	CA	18	1.8 @ 20	4.0 @ 10	660	RHDP	2.49	2.25	1.95
1955909	Lite-On	LTP-3785E-01	0.54"	Red Orange	CA	18	2.0 @ 20	2.0 @ 10	630	RHDP	2.95	2.49	2.19
1955933	Lite-On	LTP-8647AP	0.54"	Bright Red	††	18	12 @ 8.5	0.9 @ 0.4	697	RHDP	2.95	2.49	2.19
1955917	Lite-On	LTP-3785G-01	0.54"	Green	CA	18	2.1 @ 20	2.0 @ 10	565	RHDP	1.95	1.75	1.49
335222	ValuePro	UA5422-11 EWRS	0.54"	Green	CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	2.49	2.25	1.95
2075807	Ligtek	LDD525SBKS-20/A	0.56"	Blue	CC	18	3.5 @ 20	10.5 @ 10	460	RHDP	8.95	7.95	6.95

### 4-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	CA	12	2.1 @ 20	0.8 @ 10	697	RHDP	\$2.95	\$2.49	\$2.19
2006810	Ligtek	LFD2121-20/A-PF	0.28"	Red	CA	12	2.1 @ 20	0.8 @ 10	697	RHDP	\$2.95	\$2.49	\$2.19
1956549	Lite-On	LTC-2623G	0.28"	Green	CA	16	2.1 @ 20	2.0 @ 10	575	RHDP	2.95	2.49	2.19
2006828	Ligtek	LFD4161-20/A-PF	0.40"	Red	CA	16	2.1 @ 20	0.8 @ 10	697	RHDP	2.95	2.49	2.19
1956506	Lite-On	LTC-5837E	0.52"	Red Orange	CA	40	2.0 @ 20	2.2 @ 10	630	RHDP	2.95	2.49	2.19
2006836	Ligtek	LFD5221-20/A-PF	0.56"	Red	CA	12	2.1 @ 20	1.0 @ 10	697	RHDP	2.95	2.49	2.19
2005711	Lite-On	LTC-5653G-01	0.56"	Green	CA	12	2.1 @ 20	2.4 @ 10	565	RHDP	2.49	2.25	1.95
1956573	Lite-On	LTC-5848G	0.56"	Green	CA	36	2.1 @ 20	2.4 @ 10	565	RHDP##	2.95	2.49	2.19
335194	ValuePro	UM5624-11-EWRS	0.56"	Green	CC	12	2.1 @ 20	2.9 @ 10	567	RHDP	2.95	2.49	2.19
11360	Lite-On	LTC-5851Y	0.56"	Yellow	CA	36	2.1 @ 20	2.1 @ 10	585	RHDP##	2.95	2.49	2.19

\* CA=Common Anode/CC=Common Cathode    †† Built in M5450 MOS IC driver    # LHDHP=Left Hand Decimal Point / RHDP=Right Hand Decimal Point

## 1st & 2nd digits only

### LED Bar Graph Arrays (10 Elements)

\* Web Code: LBW

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Number of Elements	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing		
										1	10	100
697477	Lite-On	LTA-1000HR	0.20"	Hi-eff. Red	10	20	2.0 @ 20	2.0 @ 10	635	\$1.05	\$0.85	\$0.69
334529	ValuePro	UL10000-HR-RRAK	0.20"	Red	10	20	2.1 @ 20	1.6 @ 10	635	1.29	1.09	.89
334537	ValuePro	UL10000-Y-EWAK	0.20"	Yellow	10	20	2.1 @ 20	1.1 @ 10	585	1.19	.99	.79
2115531	Ledtronics	LBG1000G3B	0.20"	Hi-eff Green	10	20	2.1 @ 10	5 @ 10	565	1.29	1.19	.89
697469	Lite-On	LTA-1000G	0.20"	Green	10	20	2.1 @ 20	2.0 @ 10	565	1.19	.99	.79
334511	ValuePro	UL10000-E-EWAK	0.20"	Green	10	20	2.1 @ 20	1.4 @ 10	567	1.19	.99	.79
1551402	Avago	HDSP-4832	0.20"	Hi-eff. Red, Yellow, Green	10	20	2.1/2.2 @ 20; 2.1 @ 10	3.5/1.9/1.9 @ 10	635/583/566	6.95	6.25	5.59



Light Bars



\* Web Code: LTB

Part No.	Manufacturer	Product No.	Illuminated Color	Light Emitting Area	Package Fig.	Pins/Leads	Typical Forward Volt	Typical Luminosity	Wavelength nm	Pricing		
										1	10	100
1954965	Lite-On	LTL-2600HR	Hi-eff Red	.350" x .150" (2)	1	8	2.1 @ 20	4200	635	\$.89	\$.75	\$.59
1954973	Lite-On	LTL-2800G	Green	.350" x .150" (2)	1	8	2.1 @ 20	4200	565	.89	.75	.59
790188	Lite-On	LTL-2620HR	Hi-eff Red	.350" x .150" (4)	2	16	2.1 @ 20	4200	635	.89	.75	.59
1955001	Lite-On	LTL-2720Y	Yellow	.350" x .150" (4)	2	16	2.1 @ 20	4200	585	.99	.85	.69
334650	ValuePro	UB3541R-11-NRAK	Orange	.350" x .350" (1)	3	16	2.1 @ 20	7800	635	.99	.85	.69
334668	ValuePro	UB3531R-11-NYAK	Yellow	.350" x .350" (1)	3	16	2.1 @ 20	5500	585	1.09	.89	.75
334676	ValuePro	UB3521R-11-NGAK	Green	.350" x .350" (1)	3	16	2.1 @ 20	6800	567	1.25	.99	.89
2005315	Lite-On	LTL-2350HR	Hi-eff Red	.750" x .150" (1)	4	8	2.1 @ 20	800	635	1.09	.89	.79
790153	Lite-On	LTL-2450Y	Yellow	.750" x .150" (1)	4	8	2.1 @ 20	800	585	.99	.85	.69
2005323	Lite-On	LTL-2685HR	Hi-eff Red	.350" x .750" (1)	5	16	2.1 @ 20	1600	635	1.49	1.25	1.09
2005331	Lite-On	LTL-2885G	Green	.350" x .750" (1)	5	16	2.1 @ 20	1600	565	1.49	1.25	1.09

### LED Dot Matrix with Decoder Driver (4x7 & 5x7 Arrays) Alphanumeric & Hexidecimal

\* Web Code: HAV



Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	No. of Characters	Array Polarity	Pins/Leads	Typical mcd	Wavelength nm	Pricing		
										1	10	100
1551269	Avago	HDSP-2532	0.18"	Hi-efficiency Red	8 (1x8)	5 x 7 Alpha	30	7.5	635	\$32.95	\$31.95	\$29.95
1551251	Avago	HDSP-2531	0.18"	Yellow	8 (1x8)	5 x 7 Alpha	30	7.5	583	32.95	31.95	29.95
1584301	Avago	HDSP-2111	0.20"	Yellow	8 (1x8)	5 x 7 Alpha	28	7.5	583	32.95	31.95	29.95
1551120	Avago	HDLG-2416	0.20"	Green	4 (1x4)	5 x 7 Alpha	18	5.6	568	19.95	18.95	17.95
32951	Texas Instruments	TIL311	0.27"	Red	1	4 x 7 Hex	14	0.1	660	19.95	17.95	15.95
1551189	Avago	HDSP-0762	0.29"	Hi-efficiency Red	1	4 x 7 Hex	8	0.14	635	27.95	26.95	25.95

© Blue Part No. = Limited Quantity Available

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

Optos

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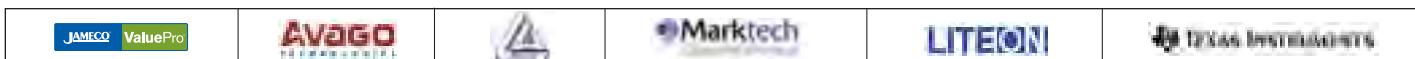


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35

# Dot Matrix Displays & LED Replacement Lamps

3 LEVELS OF SAVINGS  
 NAME BRANDS   HOUSE BRANDS   FACTORY OVERRUN



## LED Dot Matrix Displays (5x7, 5x8 & 8x8 Arrays)



\* Web Code: HAV

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Array Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing		
										1	10	100
218843	Various	CSM57041T-11	0.7"	Red	5 x 7 CC/AR	12	1.8 @ 20	8.0 @ 20	660	\$1.95	\$1.49	\$1.25
118906	Lite-On	LTP747R	0.7"	Hi-efficiency Red	5 x 7 AC/CR	12	2.0 @ 20	2.0 @ 80	655	2.25	1.75	1.49
2005420	Lite-On	LTP-747C	0.7"	AlGaAs Red	5 x 7 AC/CR	12	1.8 @ 20	5.8 @ 80	660	2.49	1.95	1.75
2005471	Lite-On	LTP-757KR	0.7"	AlInGaP Super Red	5 x 7 CC/AR	12	2.0 @ 20	3.4 @ 32	639	2.95	2.25	1.89
2005454	Lite-On	LTP-747E	0.7"	Orange	5 x 7 AC/CR	12	2.0 @ 20	2.0 @ 80	630	1.95	1.49	1.25
2005497	Lite-On	LTP-757G <del>R</del>	0.7"	Green	5 x 7 CC/AR	12	2.1 @ 20	2.0 @ 80	565	1.95	1.49	1.25
1955061	Lite-On	LTP-1457AHR	1.2"	Hi-efficiency Red	5 x 7 AC/CR	14	2.0 @ 20	4.0 @ 80	635	2.95	2.49	2.25
1955079	Lite-On	LTP-1557AHR	1.2"	Hi-efficiency Red	5 x 7 CC/AR	14	2.1 @ 20	4.0 @ 80	565/630	3.49	2.95	2.49
335281	ValuePro	UJ1141-21-EWRN	1.2"	Orange	5 x 7 CC/AR	14	2.1 @ 20	4.6 @ 10	635	3.49	2.95	2.25
2005518	Lite-On	LTP-1557AKA <del>R</del>	1.2"	AllnGaP Red Orange	5 x 7 CC/AR	14	2.05 @ 20	3.8 @ 80	621	2.95	2.49	1.95
1955087	Lite-On	LTP-1257AA-01	1.2"	Green/Red Orange	5 x 7 AC/CR	20	2.1/2.0 @ 20	4.0 @ 80	565/630	2.95	2.49	1.95
1955095	Lite-On	LTP-1057AE	1.24"	Red Orange	5 x 7 AC/CR	14	2.0 @ 20	4.0 @ 80	630	2.95	2.49	1.95
2005745	Lite-On	LTP-1057AGNB <del>R</del>	1.24"	Green	5 x 7 AC/CR	14	2.1 @ 20	4.0 @ 80	565	2.95	2.49	1.95
1955108	Lite-On	LTP-1057AHR	1.54"	Hi-efficiency Red	5 x 7 AC/CR	14	2.0 @ 20	4.0 @ 80	635	3.95	3.25	2.59
308144	Ledtech	LT5763-M1EWRN	1.54"	Red/Green	5 x 7 AC/CR	20	1.7/2.1 @ 20	10.8 @ 20 / 10	660/567	3.95	3.25	2.25
1955132	Lite-On	LTP-2157AHR-RD	2.0"	Hi-efficiency Red	5 x 7 CC/AR	14	2.0 @ 20	4.8 @ 80	635	3.95	3.35	2.89
2005753	Lite-On	LTP-2057AE	2.0"	Orange	5 x 7 AC/CR	14	2.0 @ 20	4.8 @ 80	630	3.95	3.35	2.89
1955116	Lite-On	LTP-2157AE	2.0"	Orange	5 x 7 CC/AR	14	2.0 @ 20	4.8 @ 80	630	2.95	2.49	1.95
335290	ValuePro	UJ2041-21 EWRN	2.0"	Orange	5 x 7 CC/AR	14	2.1 @ 20	6.0 @ 10	630	3.95	3.35	2.89
206560	Lite-On	LTP-2157AG	2.0"	Green	5 x 7 CC/AR	14	2.1 @ 20	4.8 @ 80	565	2.95	2.49	1.95
2077351	Lite-On	LTP-2657AA	2.0"	Green/Red Orange	5 x 7 AC/CR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	3.95	3.35	2.89
1955159	Lite-On	LTP-2757AA	2.0"	Green/Red Orange	5 x 7 CC/AR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	2.95	2.49	1.95
2005761	Lite-On	LTP-3057AC	3.0"	AlGaAs Red	5 x 7 AC/CR	14	3.6 @ 20	20 @ 80	660	3.95	3.49	2.95
1955167	Lite-On	LTP-4157AE	4.0"	Orange	5 x 7 CC/AR	14	4.0 @ 20	96 @ 80	630	4.95	4.19	3.59
1955175	Lite-On	LTP-4157AG	4.0"	Green	5 x 7 CC/AR	14	4.2 @ 20	96 @ 80	565	3.95	3.49	2.95
1955183	Lite-On	LTP-2158AHR	2.3"	Hi-efficiency Red	5 x 8 CC/AR	14	2.1 @ 20	4.0 @ 48	635	2.95	2.49	1.95
1955191	Lite-On	LTP-2158AY	2.3"	Yellow	5 x 8 CC/AR	14	2.1 @ 20	4.8 @ 80	585	3.95	3.59	2.75
1955204	Lite-On	LTP-2458AA-NB	2.3"	Green/Red Orange	5 x 8 AC/CR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	3.95	3.59	2.75
1955212	Lite-On	LTP-2558AA	2.3"	Green/Red Orange	5 x 8 CC/AR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	3.95	3.59	2.75
1955221	Marktech	MTAN6385-AHRC	0.85"	Hi-efficiency Red	8 x 8 AC/CR	24	2.1 @ 20	7.4 @ 20	635	3.95	3.59	2.75

\* AC-Anode Column / AR-Anode Row / CC-Cathode Column / CR-Cathode Row

## Multi-Chip, Bayonet and Cluster Based LED Replacement Lamps

JAMECO EXCLUSIVE  
\* Web Code: KBZ

### 585 Series Non-Polarized

- Low current draw – 90% less energy than incandescent
- No heat generated • Long life – up to 100k hours
- Mounts directly into industry standard socket



### Multi-Chip Based LED T1 - Midget Flange

392681 392702 394476 394493

Part No.	Product No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392681	585-4123	Green	14	14	550	630	\$2.49	\$2.19	\$1.79
392690	585-4125	Yellow	14	20	530	630	2.49	2.19	1.79
392702	585-1225	Red	28	4.5	350	625	2.49	2.19	1.79

### Bayonet Based LED T3

394476	585-4123	Red	14	20	550	630	\$2.95	\$2.59	\$1.95
394493	585-4125 <del>R</del>	Red	28	14	350	630	2.95	2.59	1.95

### Cluster-Based LED T3 - Miniature Bayonet (BA9s)



- Replaces incandescent lamp numbers: 44, 47, 313, 755, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

392552	585-5223 <del>R</del>	Red	14	20	7000	630	\$4.95	\$4.49	\$3.95
392585	585-5523	Yellow	14	20	7000	588	4.95	4.49	3.95
392593	585-5225	Red	28	15	6500	630	4.95	4.49	3.95
392607	585-5325 <del>R</del>	Green	28	15	6000	525	4.95	4.49	3.95
392622	585-5525	Yellow	28	15	6000	588	4.95	4.49	3.95
392632	585-5256 <del>R</del>	Red	120VAC	5.5	6500	625	4.95	4.49	3.95
392649	585-5356	Green	120VAC	5.5	7000	525	4.95	4.49	3.95

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Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap this fluorescent wire around any object such as musical instruments, models, science projects, and presentation boards. Super charge your projects with brilliant color.

- Powered by 2 AA batteries
- Length: 4.5'

Part No. Mfr. Part No. Color 1 5 25

263484	NWRB15	Blue ...	\$22.95	\$19.95	\$17.95
263492	NWRR15	Red .....	22.95	19.95	17.95

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2118715: Recommend NHD-FFC37 adapter P/N 2122731 (see web)

2118723: Recommend NHD-COG14-36 adapter P/N 2122749 (see web)

2118731: Recommend NHD-FFC20-1 adapter P/N 2122757 (see web),

NHD-3.5-320240MF-20, P/N 2122765 controller board (see web),  
digital RGB interface (6.5MHz)

2118740: 16-bit digital input data, touch panel type, recommend  
NHD-4.3-480272MF-20 controller board P/N 2122773 (see web)

2118758: Recommends NHD-FFC20-1 adapter P/N 2122757 (see web)



**NEW**  
MARKED IN PINK

\* Web Code: GCG

2118715

2118723

2118731

2118740

2118758

Optos

\* Landscape mode

### Parallel LCD Displays

**NEW**  
MARKED IN PINK

\* Web Code: GCG



658890



2118619



2118580



2118601



2118598



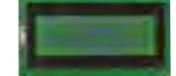
2118627



210761



2118635



2118643



1946050



658929



658953



2118694



2118707

Part No.	Mfr.	Mfr. Part No.	Characters x Lines	Character Font	Input Data	Input Voltage	Letters-Backlight	Notes†	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing		
											1	5	25
133733	Varitronix	MDLS16166D	16 x 1	5 x 8	8-bit	5.0V @ 0.6mA	Black-None	2, 3	3.1 x 1.4 x 0.4	2.5 x 0.5	\$8.95	\$7.95	\$6.95
1939571	Hitachi	LM071L	16 x 2	5 x 7	8-bit	5.0V @ 1.0mA	Black-None	—	3.1 x 1.4 x 0.4	2.5 x 0.5	8.95	7.95	6.95
618003	Hantronix	HDM716216H-5-3005	16 x 2	5 x 7	8-bit	5.0V @ 1.25mA	Black-None	—	3.2 x 1.4 x 0.3	2.5 x 0.5	9.95	8.95	7.95
658988	Hantronix	HDM716216L-7-8C0	16 x 2	5 x 7	8-bit	5.0V @ 2.0mA	Black-Yellow	3	4.8 x 1.7 x 0.6	3.9 x 0.9	11.95	10.95	8.95
658890	Hantronix	HDM716216H-B-P00P	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	3.3 x 1.7 x 0.4	2.4 x 0.6	13.95	12.49	11.25
658881	Hantronix	HDM716216H-4-H0AF	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	4.8 x 1.7 x 0.4	3.9 x 0.9	12.95	11.49	10.95
171716	Ampire	AC-162A	16 x 2	5 x 8	8-bit	5.5V @ 1.5mA	Black-Yellow/Green	2, 3	3.4 x 1.2 x 0.5	2.5 x 0.7	19.95	17.95	15.95
1946068	Goldentek	C-1602A-1YN	16 x 2	5 x 8	8-bit	5.0V @ 1.0mA	Black-Yellow/Green	—	2.8 x 1.4 x 0.4	2.6 x 0.6	9.95	8.95	7.95
2118619	Newhaven	NHD-021682-FL-YBW	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	Blue-Yellow/Green	5, 6	3.3 x 1.7 x 0.5	2.5 x 0.6	9.95	8.95	7.95
1585979	Tinsharp	TC1602B-B	16 x 2	5 x 8	8-bit	5.0V @ 1.3mA	Black-Blue	—	3.1 x 1.4 x 0.4	2.5 x 0.4	17.95	15.95	13.95
2118580	Newhaven	NHD-0216K12-FL-YBW	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	Blue-Yellow/Green	5, 6	3.2 x 1.4 x 0.5	2.5 x 0.6	9.95	8.95	7.95
2118601	Newhaven	NHD-0216K12-FS(RGB)-FBW	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	Black-RGB	5, 6	3.2 x 1.4 x 0.5	2.5 x 0.6	13.95	12.95	11.95
2118598	Newhaven	NHD-0216K12-NSW-BBW-L	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	White - Blue	5, 6	3.2 x 1.4 x 0.5	2.5 x 0.6	10.95	9.95	8.95
1954674	Tinsharp	TC1602B-W	16 x 2	5 x 8	8-bit	5.0V @ 1.3mA	White-Black	—	3.1 x 1.4 x 0.4	2.5 x 0.4	14.95	13.49	11.95
2118627	Newhaven	NHD-0216SZ-NSW-BBW	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	White-Blue	5, 6	4.8 x 1.7 x 0.5	3.9 x 0.9	21.95	20.49	18.95
365982	PicVue	PVC160206QYL04	16 x 2	5 x 8	8-bit	5.0V @ 1.6mA	Black-Yellow/Green	—	3.3 x 1.2 x 0.5	2.4 x 0.6	13.95	12.49	10.95
2081166	Optrex	DMC16249	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 3.0mA	Black-Grey - None	—	3.1 x 1.4 x 0.4	2.5 x 0.5	9.95	8.95	7.95
210761	Various	UC-16401 (Samsung)	16 x 4	5 x 8	4-bit or 8-bit	6.5V @ 2.2mA	Black-None	1, 3	3.4 x 2.4 x 0.3	2.4 x 1.0	24.95	22.49	19.95
206615	Samsung	9936	20 x 1	5 x 7	4-bit or 8-bit	5.5V @ 3.0mA	Black-None	4	7.2 x 1.6 x 0.4	6.5 x 1.3	9.95	8.95	7.95
2115451	Hantronix	HDM20216H-3-U10S	20 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Gray-White-None	—	4.6 x 1.5 x 0.4	3.3 x 0.7	12.95	11.49	9.95
2115469	Hantronix	HDM20216H-3-VHOP	20 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Yellow-White-None	—	4.6 x 1.5 x 0.4	3.3 x 0.7	12.95	11.49	9.95
171724	Ampire	AC-202A	20 x 2	5 x 8	8-bit	5.0V @ 1.7mA	Black-Yellow/Green	2, 3	4.6 x 1.5 x 0.4	3.3 x 0.7	24.95	22.49	20.25
2118635	Newhaven	NHD-0202DZ-FL-YBW	20 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	Blue-Yellow/Green	5, 6	4.6 x 1.5 x 0.4	3.3 x 0.7	17.95	16.95	15.95
2118643	Newhaven	NHD-0420DZ-FL-YBW	20 x 4	5 x 8	4-bit or 8-bit	5.0V @ 3.5mA	Blue-Yellow/Green	5, 7	3.9 x 2.4 x 0.6	3.0 x 1.0	21.95	20.49	18.95
1946050	Goldentek	GM-C2004A	20 x 4	5 x 8	8-bit	5.0V @ 1.5mA	Blue-Grey-None	—	3.8 x 2.7 x 0.3	3.0 x 1.0	9.95	8.95	7.95
658831	Hantronix	HDM40216H-4-S90P	40 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	7.2 x 1.3 x 0.4	6.1 x 0.6	7.95	6.95	6.25
658929	Hantronix	HDM40216H-4-S9RP	40 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	7.2 x 1.3 x 0.4	6.1 x 0.6	9.95	8.95	7.95
658937	Hantronix	HDM40216L-4-LCWF	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	Black-Yellow/Green	3	7.2 x 1.3 x 0.6	6.1 x 0.6	20.95	18.95	16.95
652332	Seiko Inst.	DMC4024	40 x 4	5 x 8	8-bit	5.0V @ 12mA	Black-None	—	7.5 x 2.1 x 0.4	5.5 x 0.9	22.95	19.95	16.95
658953	Hantronix	HDM64GS12L-4-N31S	128 x 64	128 x 64	8-bit	5.0V @ 2.0mA	Black-None	4	3.0 x 2.1 x 0.4	2.4 x 1.3	19.95	17.95	15.95
2118694	Newhaven	NHD-12864AZ-FSW-GBW-VZ	128 x 64	128 x 64	8-bit	5.0V @ 3.5mA	Blue - White	5, 8	3.7 x 2.8 x 0.5	2.8 x 1.6	25.95	24.49	23.95
2118707	Newhaven	NHD-24064CZ-FSW-GBW-VZ	240 x 64	240 x 64	8-bit	5.0V @ 7.0mA	Blue - White	5, 9	4.6 x 1.8 x 0.5	3.8 x 1.2	49.95	48.95	47.95

†1. Control LSI HD44780 & column driver MSM5259 or equivalents; 2. Controller KS0066U or equivalent; 3. Recommended power supply P/N 164101, pg 123; 4. Dot Graphic LCD display

5. Recommended power supply P/N 252701, pg 121

6. Controller SPLC780D or equivalent

7. Controller SPLC780D-01 or equivalent

8. Controller KSO108B

9. Controller RA6963

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

37

# Serial LCD Displays & Incandescent Lamps

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com).

## Serial LCD Displays



One-year warranty

**NEW**  
MARKED IN PINK

Scott Edwards Electronics, Inc.

\* Web Code: QAW

150990

2118651

2118678

157323

281391

281412

694381

Optos

Part No.	Manufacturer	Mfr. Part No.	Characters x Lines	Input Data	Input Voltage (V @ mA)	Letters - Backlight	Notes†	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing		
										1	5	25
150990	Scott Edwards	ILM-216L	16 x 2	1200-9600	4.8-5.5 @ 5	Black-Yellow/Green	1,2,5	3.2 x 2.0 x 0.5	2.8 x 1.0	\$49.95	\$44.95	\$41.95
2118651	Newhaven	NHD-0216K3Z-FL-GBWA	16 x 2	9600 (default)	5.0V @ 125mA	Blue-Yellow/Green	—	3.2 x 1.4 x 0.5	2.5 x 0.6	18.95	16.95	14.95
2118660	Newhaven	NHD-0216K3Z-FS(RGB)-FBWA	16 x 2	9600 (default)	5.0V @ 18mA	Black-RGB	—	3.2 x 1.4 x 0.5	2.5 x 0.6	23.95	21.49	18.95
2081975	Crystal Fonz	CFA632-NFA-KS	16 x 2	2400-19,200	5.0V @ 9	Black-None	5	4.3 x 1.7 x 0.6	3.3 x 0.9	29.95	26.95	23.95
133129	Scott Edwards	BPI-216N	16 x 2	2400 or 9600	4.8-5.5 @ 3	Black-None	1,2,11	3.1 x 1.4 x 0.7	2.8 x 1.0	55.95	49.95	44.95
174166	Matrix Orbital	LK16-12R	16 x 2	1200-19,200	5.0 @ 9	Black-Yellow/Green	1,3,4,6	3.2 x 1.5 x 0.8	2.5 x 0.7	59.95	56.95	53.95
2118678	Newhaven	NHD-0220D3Z-FL-GBWA	20 x 2	9600 (default)	5.0V @ 245mA	Blue-Yellow/Green	—	4.6 x 1.5 x 0.5	3.3 x 1.1	21.95	19.95	17.95
174174	Matrix Orbital	LK202-25R	20 x 2	1200-19,200	5.0 @ 9	Black-Yellow/Green	1,7,10	4.6 x 1.5 x 1.1	3.1 x 0.7	44.95	42.95	39.95
693986	Matrix Orbital	LK202-25-IYR	20 x 2	1200-19,200	5.0 @ 9	Yellow/Green-Black	1,7,10,12	4.6 x 1.5 x 1.1	3.1 x 0.7	39.95	36.95	34.95
158166	Scott Edwards	SGX-120L	20 x 4 w/ graphics	2400 or 9600	4.8-5.5 @ 15	Yellow-None	1,2,5	3.1 x 1.9 x 0.8	2.6 x 1.1	119.95	109.95	99.95
150957	Matrix Orbital	LCD2041	20 x 4	1200-19,200	5.0 @ 10	Black-Yellow/Green	1,3,4,6	3.9 x 2.4 x 0.7	3.0 x 1.0	69.95	66.49	62.95
2118686	Newhaven	NHD-0420D3Z-FL-GBWA	20 x 4	9600 (default)	5.0V @ 245mA	Blue-Yellow/Green	—	3.9 x 2.4 x 0.5	3.0 x 1.0	23.95	21.49	18.95
157323	Matrix Orbital	LK204-25R	20 x 4 w/ keypad	1200-19,200	5.0 @ 16	Black-Yellow/Green	1,3,4,6	3.7 x 2.4 x 1.1	3.0 x 1.0	74.95	70.95	67.95
694170	Matrix Orbital	LK204-25-IYR	20 x 4 w/ keypad	1200-19,200	5.0 @ 16	Yellow-Blk	1,7,10,12	3.9 x 2.4 x 1.2	3.0 x 1.0	68.95	65.45	62.45
281391	Matrix Orbital	GLK1232-25-SM	122 x 32 w/ graphics	9600-115,000	5.0 @ 250	Blue-White	1,8	3.4 x 1.4 x 0.5	2.4 x 0.7	74.95	70.95	67.95
281404	Matrix Orbital	GLK1232-25-FGW	122 x 32 w/ graphics	9600-115,000	5.0 @ 20	Black-White	1,8	3.9 x 2.4 x 0.4	3.3 x 1.4	78.95	77.95	76.95
174182	Matrix Orbital	GLC24064	240 x 64 w/ graphics	1200-19,200	5.0 @ 31	Black-Yellow/Green	1,3,6	7.1 x 2.6 x 0.7	5.2 x 1.5	165.95	157.95	149.95
281412	Matrix Orbital	GLK24064-25	240 x 64 w/ graphics	9600-115,000	5.0 @ 20	Black-Yellow/Green	1,9	7.1 x 2.6 x 1.1	5.0 x 1.3	149.95	142.95	135.95
694381	Matrix Orbital	GLK24064-25-WBR	240 x 64 w/ graphics	9600-115,000	5.0 @ 35	White-Blue	1,9,13	7.1 x 2.6 x 0.7	5.0 x 1.3	149.95	142.95	135.95

\*1. For a power supply, Jameco recommends P/N 164101, pg 123

2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included)

3. Manual included

4. Connect 16 modules using the same two wire interface

5. EEPROM stores text font, settings, and text screen

6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping & auto scroll feature

7. Connect up to 127 modules on the same 2-wire interface

8. 122 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting & keypad interface

9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting & keypad interface

10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs

11. LCD Serial Backpack® accepts RS232, CMOS or TTL signal

12. Inverse yellow

13. White text/blue background



\* Web Code: DBH

JAMECO ValuePro

## Incandescent Lamps

\* Order in multiples of 10

Part No.	Cross Ref.	*Mfr.	Fig.	Description	Volts	MSCP	1	10	100
209390	14	JVP	1	G3 1/2 miniature screw	2.47	.50	\$45	\$39	\$35
209402	40	JVP	2	T3 1/4 miniature screw	6.3	.50	.35	.29	.25
209411	44	JVP	3	T3 1/4 miniature bayonet	6.3	.90	.29	.25	.19
209429	46	JVP	2	T3 1/4 miniature screw	6.3	.90	.49	.45	.39
209437	47	JVP	4	T3 1/4 miniature bayonet	6.3	.50	.25	.22	.19
210403	51	JVP	5	G3 1/2 miniature bayonet	7.5	1.0	*	.07	.06
209453	53	◆	5	G3 1/2 miniature bayonet	14.4	1.0	*	.19	.15
209461	73	◆	6	T1 3/4 wedge	14	.30	.29	.25	.19
209488	86	JVP	6	T1 3/4 wedge	6.3	.40	.25	.19	.15
209509	161	◆	3	T3 1/4 wedge	14	1.0	*	.15	.12
209525	194	◆	3	T3 1/4 wedge	14	2.0	*	.08	.07
209761	685	◆	7	T1 midget flange	5	.05	.29	.25	.19
209824	1813	◆	4	T3 1/4 miniature bayonet	14.4	.86	*	.08	.07
209832	1815	◆	4	T3 1/4 miniature bayonet	14	1.4	*	.08	.07
209859	1818	JVP	4	T3 1/4 miniature bayonet	24	3.3	.35	.29	.25
209883	1821	JVP	8	T3 1/4 screw	28	3.4	*	.08	.07
141073	2182	JVP	9	T1 3/4 wire terminal	14	.34	.49	.45	.39
141066	2200R	JVP	9	T1 3/4 wire terminal	5	.05	.49	.45	.39
141057	6833	JVP	10	T 3/4 wire terminal	5	.05	.49	.45	.39

\* JVP = Jameco ValuePro | ◆ Manufacturer Varies

R RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).

## Neon Lamps

\* Order in multiples of 10

\* Web Code: VAD

Part No.	Cross Ref.	*Mfr.	Fig.	Description	Voltage	1	10	100
27351	A1A (NE-2)	JVP	19	Wire terminal .6mA	65-120	\$35	\$29	\$25
210260	A9A (NE-2E)	JVP	19	Wire terminal .7mA	65-120	*	.19	.15
210315	C2A (NE-2H)	JVP	19	Wire terminal	65-120	.29	.25	.19
210286	B2A (NE-51H)	JVP	20	T3 1/4 miniature bayonet	65-120	.45	.39	.35

# Lamps, Ballasts, Power Supplies & LED Tail Lights

## Neon Panel Mount Lamps

• Input voltage: 120V	215803
• Mounting hole dia.: 5/8" (16mm)	
• Solder terminals: 0.196" (5mm)	
1585485:	
• Rectangular	1585485
• 6" wire leads	
• Size: .91" L x .38" W x .77" D	* Order in multiples of 10
Part No.	Cross Ref. No.
215803	R9-71N-05-120V-R
215812	R9-71N-05-120V-Y
215830	R9-71N-05-120V-G
1585485	32501001714
Color	Red ...
1	\$1.95
10	\$1.75
100	\$1.59
Color	Yellow
1	1.49
10	1.35
100	1.19
Color	Green
1	1.49
10	1.35
100	1.19
Color	Green
*	.19
	.15



## Incandescent/Neon Panel Mount Lamps

• Mounting hole: .310" Dia.	2099788
2099788: Incandescent type	
• 2.7VDC @ 60mA	1765849
• 10" lead wires	
1765849: Neon type	
• 105VAC to 125VAC	1765849
• 4.4"/4.8" lead wires	
Part No.	Mfr. Part No.
2099788	970D00146
1765849	2150A1
Color	Red .....
1	\$1.95
10	\$1.75
100	\$1.49
Color	Red .....
1	2.49
10	2.25
100	1.95



## Ultraviolet Lamp & Ballast (Rapid Start)

Part No.	Mfr.	Mfr. Part No.	Description	1	10	50
				2100128	2100005	
2100128	Philips	TUV25W/G25	20" T5 ultraviolet lamp	\$29.95	\$26.95	\$23.95
2100005	Lightwave	LW20EB20-120	25W rapid start ballast	5.95	5.39	4.79



We Ship the Same Day!

Just place your order by 6PM EST.

## LED Panel Mount Indicators

- Easy panel installation
- Panel/status/instrument indicators

\* Web Code: UAU

141111/141129/141137: Chrome housing



141111

141129/141137

637183

\* Has internal resistor to run 12V@10mA

Vf @ If

Pricing		
1	10	100
\$85	\$75	\$69
1.39	1.25	1.15
1.19	1.05	.95
1.19	1.05	.95

Opto

## 12V Incandescent Panel Mount Lamps

• 215715/215723/215732: Solder terminals - 0.196" (5mm)

\* Web Code: HBJ

Part No.	Cross Ref. No.	Fig.	Color	Mounting Hole	Wire Length	1	10	100
215750	R9-55B-W130-12V-R	1	Red	9/32" (7mm)	4.9" (125mm)	\$1.49	\$1.35	\$1.19
215758	R9-55B-W130-12V-Y	1	Yellow	9/32" (7mm)	4.9" (125mm)	1.49	1.35	1.19
215766	R9-55B-W130-12V-G	1	Green	9/32" (7mm)	4.9" (125mm)	1.65	1.55	1.39
215774	R9-46B-W100-12V-R	2	Red	1/2" (13mm)	3.9" (100mm)	1.49	1.35	1.19
215782	R9-46B-W100-12V-Y	2	Yellow	1/2" (13mm)	3.9" (100mm)	.75	.65	.55
215791	R9-46B-W100-12V-G	2	Green	1/2" (13mm)	3.9" (100mm)	1.49	1.35	1.19
215715	R9-71B-05-12V-R	3	Red	5/8" (16mm)	Terminals	1.85	1.69	1.49
215723	R9-71B-05-12V-Y	3	Yellow	5/8" (16mm)	Terminals	.75	.65	.55
215732	R9-71B-05-12V-G	3	Green	5/8" (16mm)	Terminals	1.49	1.35	1.19



Fig. 1  
Fig. 2  
Fig. 3

## 4" to 12" Fluorescent Lamps & Power Supplies

Now you can easily and affordably mount these fluorescent lamps to add cool cold-cathode effects and give your display a richer look and feel.

239610

2077474

239636

Part No.	* Mfr.	Mfr. Part No.	Description	Size (L" x Dia.)	1	10	25
239610	VLM	FLW1	Cool white lamp	4 x .160 .....	\$4.95	\$4.49	\$3.95
2077474	JKL	FLC10-12	Cool white lamp	10 x .120 .....	5.95	5.49	4.95
2077458	JKL	FLC10-16	Cool white lamp	10 x .160 .....	5.95	5.49	4.95
2077466	JKL	FLC12-12	Cool white lamp	12 x .120 .....	5.95	5.49	4.95
239636	VLM	FLPS1	12VDC Power Supply for P/N 239610	10.95	9.95	8.95	
2077440	VLM	FLPS	12VDC Power Supply for P/N 2077474, 2077458, 2077466	7.95	6.95	5.95	

\* 1" solder terminals

## Oscillators

### TTL Oscillators

• Output load TTL: 10 TTL max.

• Machine toolled 4 pins



Half Can  
Full Can

### Half Can (Continued)

Part No.	* Mfr.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
					1	10	100
325681	JVP	28.322	70mA	5ns	\$95	\$85	\$75
325730	JVP	40.0	70mA	5ns	1.35	1.19	1.09
325737	JVP	48.0	70mA	5ns	.95	.85	.75

### Full Can

- Input volt.: +5VDC ±0.5VDC
  - Most fit into a 14-pos. DIP socket
- P/N 133006, pg 40

\* Web Code: XAD

Part No.	* Mfr.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
					1	10	50
27861	♦	1.0	7mA	15ns	\$1.95	\$1.79	\$1.59
144207	♦	1.059	50mA	10ns	.75	.65	.55
27879	♦	1.8432	7mA	15ns	1.95	1.79	1.59
27924	♦	2.0	7mA	15ns	1.49	1.35	1.19
27967	♦	4.0	7mA	10ns	1.95	1.79	1.59
354889	JVP	4.0	15mA	10ns	1.49	1.35	1.19

Part No.	* Mfr.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
					1	10	50
325374	JVP	4.9152	15mA	10ns	\$95	\$85	\$75
325358	JVP	7.3728	15mA	10ns	.95	.85	.75
27991	♦	8.0	15mA	15ns	1.95	1.79	1.59
354897	JVP	8.0	30mA	10ns	.95	.85	.75
325331	JVP	9.216	30mA	10ns	.95	.85	.75
27887	♦	10.0	15mA	10ns	1.95	1.79	1.59
27895	♦	12.0	15mA	10ns	1.95	1.79	1.59
27908	♦	16.0	15mA	10ns	.75	.65	.55
325382	JVP	18.432	30mA	10ns	.95	.85	.75
27932	♦	20.0	17mA	10ns	1.49	1.35	1.19
354918	JVP	20.0	30mA	10ns	.95	.85	.75
27941	♦	32.0	18mA	7ns	.75	.65	.55
76822	♦	33.0	18mA	6ns	1.95	1.79	1.59
153226	♦	40.0	15mA	6ns	1.19	1.09	.95
76831	♦	50.0	25mA	6ns	.75	.65	.55
2095381	♦	60.0	65mA	5ns	1.19	.99	.79
325420	JVP	66.666	70mA	5ns	.95	.85	.75
76857	♦	100.0	25mA	3ns	1.95	1.79	1.49

\* JKL = JKL Components | JVP = Jameco ValuePro | LED = Ledtech | VLM = Velleman Inc. | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Crystals, Fuse Holders & Clips

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERKNU

## SMD Oscillator

5.0V HCMOS/TTL output

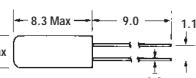
- Frequency stability:  $\pm 100$ ppm
- Dimensions: 7.5mmW x 1.5mmH x 5.2mmD

Part No.	Mfr. Part No.	Freq.	Pricing			
		(MHz)	Imped.	1	10	100
1592263	F3345-200A	20	25mA	\$1.59	\$1.39	\$1.19



## Tuning Forks

- Operating temperature range: -10°C to +60°C
- Frequency: 32.768kHz
- Drive level: 1mW
- Frequency tolerance:  $\pm 50$ ppm
- Aging for first year:  $\pm 3$ ppm (max. +25°C)



Part No.	Comparable to:	Imped.	1	10	100
14584	CY32.76	10.5pF	\$ .35	\$ .29	\$ .25
325244	JVP-325243A	12.5pF	.35	.29	.25



## Crystal Oscillator Sockets

- Good for prototyping and PCB mounting
- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins

Part No.	Description	Web Code: COS	1	10	100
676385	8-pos. socket for half can	A	\$ .45	\$ .39	\$ .35
133006	14-pos. socket for full can	....	.55	.45	.35

## Fuse Holders

Web Code: UEA

### Omni-Blok® Molded Base Fuse Block



- Solder terminal • 1-5x20mm, 2-3AG
- Dielectric strength: 1500V min.
- Clip/terminals: tin plated spring brass

Part No.	Mfr. Part No.	Curr.	Rating	Size	1	10	100
1711947	354001-GYA	15A, 300V	1 ...	.95	\$ .85	\$ .79	
1712608	520101A	10A, 300V	2 ....	.69	.65	.59	

### Panel Mount for 3AG Fuse



- Dielectric strength: 2400V min.
- Black thermoplastic, UL94V-0
- Terminals: copper & copper alloy, tin plated

Part No.	Mfr. Part No.	Curr.	Rating	1	10	100
1711681	342012A	20A	...	\$1.99	\$1.69	\$1.59

For R/C Crystal Oscillators, See page 189

## Low Profile Fuse Clips

1. For GMA/GMD fuses 2. For 3AGC/MDL/AG fuses

- Low contact resistance
- Withstands shock/vibration
- Order in multiples of 10

Part No.	Description	For Use With	Size (H" x W" x D" x P")	10	100	500
119280	5mm, side leads	1	.33 x .25 x .20 x .21 ...	\$ .15	\$ .13	\$ .09
102860	5mm, front leadsA	1	.37 x .25 x .21 x .19 .....	.15	.13	.09
2099438	1/4", side leadsA	2	.42 x .25 x .20 x .21 .....	.15	.13	.09
102842	1/4", front leads (10)A	2	.32 x .27 x .25 x .23 .....	.15	.13	.09

### 5mm x 20mm Miniature Thumbscrew Cap Holders

- Straight solder terminal
- Size: 1.5" L x 0.6" Dia.

Part No.	Approvals	Current	Mounting Hole	1	10	100	500
150464	CEA	6A @ 250VAC	.50"Dia. x .43"Flat	\$1.09	\$ .99	\$ .89	\$ .79
102825	UL/CSA	10A @ 250VAC	.50"Dia.	1.25	1.09	.95	.89

### 1/4" x 1/4" Standard Thumbscrew Cap Holders

- Straight solder terminal
- Current: 10A @ 250VAC

Part No.	Approvals	Size (L" x Dia.)	Mounting Hole	1	10	100	500
120994	CEA	1.95" x .71"	.58"Dia. (Double D-style)	\$ .95	\$ .85	\$ .69	\$ .65
18703	UL/CSA	2.05" x .71"	.58"Dia. x .52"Flat (D-style)	1.59	1.35	1.19	.95

### 1/4" x 1/4" PCB Fuse Holder

- 16A @ 250V

Part No.	Mfr. Approvals	Size (L" x Dia.)	Mounting Hole	1	10	100	
1769743	BSM	UL/CSA/VDE	1.86 x .51	.4 x .4 grid	\$5.95	\$5.49	\$4.95

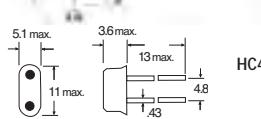
\* BSM = Bussman | JVP = Jameco ValuePro | ♦ Manufacturer Varies

## Crystals

★ Web Code: EAU



HC49/US Low Profile Case



HC49/S Low Profile Case

### JAMECO ValuePro HC49/US Low Profile Case

Part No.	Mfr.	Frequency (MHz)	Impedance	Pricing		
				1	10	100
324988	JVP	3.6864	18pF	\$ .49	\$ .45	\$ .39
324962	JVP	4.0A	20pF	.59	.55	.49
324929	JVP	5.0	20pF	.59	.55	.49
324902	JVP	5.0688	20pF	.39	.35	.29
324865	JVP	6.0	Series	.49	.45	.39
324857	JVP	6.144	32pF	.49	.45	.39
324849	JVP	6.500	20pF	.49	.45	.39
324822	JVP	7.3728	20pF	.49	.45	.39
324831	JVP	7.3728	20pF	.49	.45	.39
324814	JVP	7.68	20pF	.49	.45	.39
324786	JVP	8.0A	20pF	.49	.45	.39
324769	JVP	9.0	Series	.49	.45	.39
324742	JVP	9.1926	Series	.49	.45	.39
325227	JVP	11.0592	20pF	.49	.45	.39
325198	JVP	12.0	20pF	.59	.55	.49
325104	JVP	18.432	20pF	.49	.45	.39
325113	JVP	18.432A	20pF	.49	.45	.39
325075	JVP	19.6608	7pF	.49	.45	.39
325964	JVP	19.6608	20pF	.49	.45	.39
325068	JVP	20.00A	20pF	.59	.55	.49
325041	JVP	20.48	20pF	.49	.45	.39
325024	JVP	24.0	20pF	.59	.55	.49

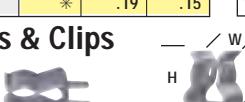
† Industrial temperature range is -40°C to 85°C

### JAMECO ValuePro HC49/S Low Profile Case

- Operating temp.: -10° to +60°C •  $\pm 5$ ppm/year max.
- Drive level: 0.5mW (fundamental frequency)
- Frequency stability tolerance:  $\pm 50$ ppm

Part No.	Comparable:	Freq. (MHz)	Imped.	Pricing		
				1	10	100
137816	CY3.5795	3.5759	17pF	\$ .39	\$ .29	\$ .25
137832	CY4LP	4.0	17pF	.49	.35	.29
137859	CY8LP	8.0	Series	.49	.35	.29
137875	CY11.05LP	11.0592	Series	.49	.35	.29
137891	CY16LP	16.0	Series	.49	.35	.29

★ Web Code: EEE



### 5mm x 20mm Miniature Low Profile Fuse Holder

- Current: 10A @ 250VAC
- D-style

Part No.	Approvals	Size (L" x Dia.)	Mounting Hole	1	10	100
102832	UL/CSA	1.4 x 0.6	.5"Dia. x .46"flat	\$2.49	\$2.19	\$1.99

### 5mm x 20mm Miniature In-Line Fuse Holder

Part No.	AWG	Wire Color	Body Size	1	10	100
109330	20	Red	1.8" L	\$ .69	\$ .65	\$ .59

### 1/4" x 1/4" Standard In-Line Fuse Holders

- Built-in spring ensures good fuse connection

- Vinyl covered wire with stranded copper center

Part No.	AWG	Wire Lengths	Body Length	Color Body/Wire	1	10	100
109322	22A	3.5/3"	2.4"	Black/Red .....	\$ .79	\$ .75	\$ .69
102868	20A	3/3"	2.2"	White/Red .....	.89	.79	.69
151918	18A	6/6"	2.4"	White/Red .....	1.19	1.09	.95
108784	16A	21/26"	2.2"	Black/Orange .....	1.79	1.55	1.29
108792	14A	19/25"	2.5"	Black/Red .....	2.49	2.25	1.95

\* RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## 5mm x 20mm Mini Fast Acting GMA Fuses (250V)



- Recommended for new designs

Part No.	*Mfr. Cross Ref.	Amps	1	10	100
103887	JVP GMA-250mA	.25A	\$.29	\$.25	\$.22
102041	JVP GMA-500mA	.5A	.29	.25	.22
103908	JVP GMA-1A	1A	.29	.25	.22
103916	JVP GMA-2A	2A	.29	.25	.22
103924	JVP GMA-3A	3A	.29	.25	.22
103932	JVP GMA-5A	5A	.29	.25	.22

## 1 1/4" x 1/4" Standard Fast Acting (250V) AGC/3AG Fuses



Part No.	*Mfr. Cross Ref.	Amps	1	10	100
69404	JVP AGC-250mA	.25A	\$.29	\$.25	\$.22
10410	JVP AGC-0.5	.5A	.29	.25	.22
10373	JVP AGC-1A	1A	.29	.25	.22
652949	LTL 312001.HXP	1A	.29	.25	.22
197528	JVP AGC-1.6	1.6A	.29	.25	.22
10382	JVP AGC-2A	2A	.29	.25	.22
197536	JVP AGC-25	2.5A	.29	.25	.22
69439	JVP AGC-3R	3A	.29	.25	.22
197544	JVP AGC-4	4A	.29	.25	.22
10402	JVP AGC-5A	5A	.29	.25	.22
197552	JVP AGC-6.3	6.3A	.29	.25	.22
69462	JVP AGC-10	10A	.29	.25	.22
186301	JVP AGC-16	16A	.29	.25	.22

Blue Part No. = Limited Quantity Available

## ECE Resettable Fuses

Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance. As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

- Rated voltage: ( $V_{MAX}$ ): 60V
- Max. current: ( $I_{MAX}$ ): 40A

Web Code: SBF

Blue Part No. = Limited Quantity Available

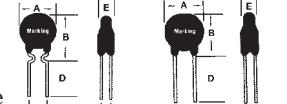


Fig. 3 Fig. 4

Fig. 1 Fig. 2

Fig. 1 Fig. 2

Part No.	Mfr. P/N	Hold Curr. ( $I_H$ , A)	Trip Curr. ( $I_T$ , A)	Size (mm)				Pricing			
				A	B	C	E	1	10	100	
199832	RA020-60A	0.20	0.40	1	7.4	12.2	5.1	.31	\$.49	\$.45	\$.39
199858	RA030-60A	0.30	0.60	1	7.4	13.0	5.1	.31	.59	.55	.49
199874	RA050-60A	0.50	1.00	1	7.9	13.7	5.1	.31	.59	.55	.49
199891	RA075-60A	0.50	1.50	1	10.4	15.2	5.1	.31	.49	.45	.39
199882	RA065-60A	0.65	1.30	1	9.7	14.5	5.1	.31	.59	.55	.49
199912	RA110-60A	1.10	2.20	2	13.0	18.0	5.1	.31	.59	.55	.49
199997	RB110-30A	1.10	2.20	3	7.4	14.2	5.1	.30	.59	.55	.49
199938	RA160-60A	1.60	3.20	2	16.3	21.3	5.1	.31	.59	.55	.49
200062	RB500-30A	5.00	10.00	4	14.0	24.9	10.2	.30	.59	.55	.49

## Ceramic Resonators



Blue P/N = Limited Qty. Available

- Frequency accuracy: ±0.5% @ 25°C
- Extended temp. range: -20°C to +85°C
- Withstanding volt. (5 sec): 100V max.

Part No.	Product No.	Frequency	Resistance	Pins	1	10	100
324620	TZTA-6.00MT	6.0MHz	30Ω	2	\$.39	\$.35	\$.29
<b>324638</b>	TZTA-8.00MT	8.0MHz	25Ω	2	.39	.35	.29
324727	TZTT-8.00MT	8.0MHz	25Ω	3	.39	.35	.29
324566	TZTA-12.00MT	12.0MHz	25Ω	2	.39	.35	.29
324672	TZTT-20.00MT	20.0MHz	55Ω	3	.49	.45	.39

\* JVP = Jameco ValuePro | LTL = Littelfuse | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Fuses

\* Web Code: RAM

## 5mm x 20mm Mini Slow Blow GMD Fuses (250V)

\* Web Code: RAM

Part No. \*Mfr. Cross Ref. Amps 1 10 100

197502	JVP GMD-500mA	0.5A	\$.39	\$.35	\$.29
103827	JVP GMC-1A	1A	.35	.29	.25
197465	JVP GMD-1A	1A	.39	.35	.29
197472	JVP GMD-2	2A	.39	.35	.29
197482	JVP GMD-3.15A	3.15A	.39	.35	.29
197500	JVP GMD-5A	5A	.39	.35	.29

\* Medium time delay type

## 1 1/4" x 1/4" Standard Slow Blow MDL/3AG Fuses (250V)

\* Web Code: EAD

Part No. \*Mfr. Cross Ref. Amps 1 10 100

653263	LTL 313.010.HXP	.01A	\$2.29	\$2.09	\$1.99
653301	LTL 313.100.HXP	.10A	1.39	1.35	1.29
653335	LTL 313.187.HXP	.187A	1.39	1.35	1.29
25655	JVP MDL-1/4A	.25A	.59	.55	.49
653386	LTL 313.400.HXP	.4A	1.29	1.19	1.09
25689	JVP MDL-1/2	.5A	.59	.55	.49
<b>653423</b>	LTL 313.750.HXP	.75A	.89	.85	.79
25639	JVP MDL-1A	1A	.59	.55	.49
25646	JVP MDL-2	2A	.59	.55	.49
69535	JVP MDL-3A	3A	.49	.45	.39
653511	LTL 313.003.HXP	3A	.55	.49	.45
25672	JVP MDL-5A	5A	.59	.55	.49
69570	JVP MDL-10A	10A	.59	.55	.49
653600	LTL 313.012.HXP	12A	1.39	1.35	1.29

Blue Part No. = Limited Quantity Available

## 1 1/4" x 1/4" Ceramic Fast Acting 3AB Fuses (250V)

\* Web Code: ABF

Part No. \*Mfr. Cross Ref. Amps 1 10 100

656851	LTL 314.750.HXP	.75	\$.79	\$.69	\$.59
656860	LTL 314.001.HXP	1	.79	.69	.59
<b>656940</b>	LTL 314.008.HXP	8	.89	.79	.69
656966	LTL 314.012.HXP	12	.69	.59	.49

## 5mm x 20mm Fast Acting Fuse Kit

Glass cartridge, silver-end caps

Voltage rating: 250VAC

IEC127/BS4265/CEE4 spec.

100 pieces: 10 ea. of 0.1A, 0.2A, 0.5A, 1A, 1.6A, 2A, 2.5A, 3A, 4A and 5A

Part No. Mfr. Part No. 1 10 25

645343	K/FF	\$15.95	\$14.95	\$13.95
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## Circuit Breakers

Quick connect style terminals

Actuator: black plastic button

Mounting hole: 0.450"

Included hardware: nut, knurled nut, ID plate

Curr. Rating

Part No. Mfr. P/N (A @ VAC) 1 10 100 500

621376	35-2105	5 @ 125/250 ..	\$3.95	\$3.69	\$3.29	\$2.95
621413	35-2110	10 @ 125/250 ....	3.95	3.69	3.29	2.95
621430	35-2115	15 @ 125/250 ....	3.95	3.69	3.29	2.95
621448	35-2120	20 @ 125/250 ....	3.95	3.69	3.29	2.95

\* Order in multiples of 10

## LA & ZA Equivalent Series Radial Leaded Varistors

Part No.	*Mfr.	Product No.	Continuous Voltage		Transient Energy	Max. Clamping Voltage	Pricing				
			V <sub>M(A)</sub>	V <sub>M(DO)</sub>		V <sub>c</sub>	I <sub>PK(A)</sub>	Fig.	1	10	100
666793	JVP	V22ZA1A	7	14	22	0.9	43	1	*	\$1.19	\$1.15
667382	JVP	V18ZA1A	11	18	0.8	36	2.5	1	*	.19	.15
666785	JVP	V22ZA05A	14	22	0.4	80	1	2	*	.19	.15
666822	JVP	V24ZA50A	14	22	13	43	20	3	*	.19	.15
666831	JVP	V27ZA05A	17	27	0.5	60	1	2	*	.19	.15
666777	JVP	V18ZA40A	20	11	18	10	36	3	*	.19	.15
666881	JVP	V56ZA8A	35	56	10	110	10	4	*	.19	.15
666890	JVP	V68ZA2-VP	40	68	2.5	135	2.5	1	*	.19	.15
666929	JVP	V82ZA4A	50	82	8	135	25	5	*	.19	.15
666953	JVP	V150ZA20A	95	150	50	250	100	3	*	.19	.15
666988	JVP										

# Component Cabinet Kits

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## Includes the Most Popular Components with Extra Spaces for Your Customized Expansion

- Each kit includes drawer component cabinet (319600) and 20 plastic dividers (319611)
- Each kit has the most popular component in its category
- Each kit is designed for your specific expansion
- Includes identification labels for each drawer, with reorder numbers to replenish stock and blank adhesive labels for empty drawers
- Free standing or wall mountable cabinet • Weight of kits: 4.6 to 6.4 lbs.
- Cabinet size: 6.0" L x 15.0" W x 7.9" H • Drawer size: 5.5" L x 2.7" W x 1.5" H
- 20 clear plastic drawers (319601) and 20 dividers (319611) • Cabinet: ABS-black (P/N 319600 see pg 173)

20-drawer  
component cabinet  
with every kit!



81059 (Switch Kit)

81841 (Capacitor Kit)

## 7400 Series IC Kit

SAVE \$202

Includes 350 pcs. (30 Types) 7400 (TTL) Integrated Circuits

10 each	20 each				
7402	7416	7438	74121	74157	7400
7405	7417	7447	74123	74160	7404
7408	7420	7470	74132	74174	7406
7410	7430	7485	74151	74175	7407
7414	7432	74107	74153	74279	7474

Part No.	Description	1	5
84953	350 pcs. 7400 series IC kit .....	\$199.95	\$179.95

## 74LS00 Series IC Kit

SAVE \$76

Includes 420 pcs. (35 Types) 74LS00 (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	20 each
74LS05	74LS73	74LS125	74LS193	74LS00
74LS10	74LS75	74LS139	74LS240	74LS02
74LS11	74LS85	74LS151	74LS244	74LS04
74LS14	74LS86	74LS155	74LS245	74LS08
74LS20	74LS90	74LS157	74LS273	74LS32
74LS30	74LS93	74LS174	74LS373	74LS74
74LS47	74LS123	74LS175	74LS374	74LS138

84961	420 pcs. 74LS series IC kit .....	\$149.95	\$129.95
130391	Refill for 84961 (420 pcs.) .....	134.95	119.95

## CD4000 Series (CMOS) IC Kit

Includes 300 pcs. (25 Types) CD 4000 Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
CD4015	CD4024	CD4051	CD4093	CD4001
CD4016	CD4027	CD4069	CD4511	CD4011
CD4017	CD4040	CD4070	CD4538	CD4013
CD4020	CD4046	CD4071	CD4543	CD4049
CD4023	CD4050	CD4081	CD4584	CD4066

84970	300 pcs. CD 4000 series IC kit .....	\$79.95	\$69.95
130403	Refill for 84970 (300 pcs.) .....	64.95	59.95

## Linear IC Kit

SAVE \$65

Includes 480 pcs. (40 Types)

10 each	10 each	10 each	10 each	20 each
TL72CP	LM337T	LF412CN	ULN2803A	LM317T
TL74CN	LF353N	LMC555CN	NE5532N	LM324N
TL082CP	LF356N	LM556N	7808T	LM339N
TLO84CN	LM358N	LM723CN	78L12CZ	LM741CN
MAX232CPE	LM386N-1	LM1458N	7815T	LM555CN
LM301N	LM386N-3	DS1488N	7905T	7805T
LM308N	LM393N	DS1489N	7912CT	78L05CZ
LM311N	LF411CN	ULN2003AN	7915CT	7812T

84988	480 pcs. (40 types) Linear IC kit .....	\$189.95	\$169.95
130411	Refill for 84988 (480 pcs.) .....	174.95	159.95

## Transistor Kit

Includes 560 pcs. (20 Types)

10 each	10 each	10 each	10 each	100 each
2N222A	2N4401	MJE3055T	TIP31A	2N3904
2N2907A	2N4403	MPF102	TIP32A	2N3906
2N3053	2N5951	MPSA06	TIP102	PN2222
2N3055	2N7000	MPSA13	TIP120	PN2907

82595	560 pcs. Transistor kit .....	\$69.95	\$59.95
130374	Refill for 82595 (560 pcs.) .....	54.95	49.95

## Diode and Rectifier Kit

Includes 420 pcs. (15 Types) Zener Switching & Silicon Rectifiers

10 each	10 each	10 each	10 each	100 each
1N270	1N4007	1N4735A	1N5408	1N914
1N751A	1N4150	1N4742A	C106B1	1N4004
1N4001	1N4733A	1N5404	KBP04M	1N4148

82587	420 pcs. Diode kit .....	\$39.95	\$34.95
130366	Refill for 82587 (420 pcs.) .....	29.95	26.95

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

## 1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/8-Watt 5% Resistors

10 each	50 each	50 each				
10Ω	390Ω	2.2kΩ	6.8kΩ	47kΩ	100Ω	4.7kΩ
47Ω	470Ω	2.7kΩ	15kΩ	470kΩ	220Ω	10kΩ
150Ω	680Ω	3.3kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	1.5kΩ	5.1kΩ	27kΩ	10MΩ	—	—
330Ω	2kΩ	5.6kΩ	33kΩ	—	—	—

Part No.	Description	1	5
108329	540 pcs. 1/8-watt Resistor kit ....	\$25.95	\$22.95

108303	Refill for 108329 (540 pcs.)R .....	10.95	8.95

## 1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/4-Watt 5% Resistors

10 each	50 each	50 each				
10Ω	390Ω	2kΩ	5.6kΩ	47kΩ	100Ω	4.7kΩ
47Ω	470Ω	2.2kΩ	15kΩ	470kΩ	220Ω	10kΩ
150Ω	680Ω	2.7kΩ	20kΩ	1MΩ	1kΩ	100kΩ
270Ω	1.2kΩ	3.3kΩ	22kΩ	10MΩ	—	—
330Ω	1.5kΩ	5.1kΩ	33kΩ	—	—	—

81832	540 pcs. 1/4-watt Resistor kit ....	\$27.95	\$25.95
103166	Refill for 81832 (540 pcs.)R .....	12.95	10.95

103166	Refill for 81832 (540 pcs.)R .....	12.95	10.95

## 1/2-Watt Single Turn Cermet Pot Kit

Includes 100 pcs. (8 Types) 1/2-Watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
63P500Ω	63P2kΩ	63P10kΩ	63P50kΩ	63P500kΩ
63P1kΩ	63P5kΩ	63P20kΩ	63P100kΩ	63P1MΩ
85032	100 pcs. single turn Pot kit .....	\$74.95	\$64.95	

85041	100 pcs. 15 turn Pot kit .....	\$84.95	\$74.95

## LEDs & Mounting Hardware Kit

Includes 560 pcs. (20 Types) LEDs and

SAVE \$14

Mounting Hardware

10 each	10 each	10 each	10 each	100 each
11359	34657	34761	114673	23077
11797	34673	104248	114681	95513
1427				



135394 – Capacitors



135271 – LEDs



169578 – Photocells



18294 – Toy Motors



149649 – Fans



55968 – Spacers



319600 – Cabinet

• Opened grab bags are not returnable

• Use our 20-drawer cabinet w/ labels to store your components, P/N 319600

Shaded in brown on this page you will find Jameco's nine (9) most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213) referenced towards the bottom of the page.

## Capacitor Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17857	GB100	200 assorted ceramic disc capacitors	0.2 .....	\$6.95	\$5.95
135335	GB100LB	900 assorted ceramic disc capacitors	1.0 .....	14.95	12.95
17881	GB101	100 assorted mylar capacitors	0.3 .....	5.95	4.95
135458	GB101LB	400 assorted mylar capacitors	1.0 .....	14.95	12.95
17911	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5 .....	6.95	5.95
135394	GB102LB	300 assorted electrolytic capacitors radial, axial, snap (photo above)	1.0 .....	12.95	10.95
17945	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1 .....	12.95	10.95

## Inductors and Chokes

Part No.	Product No.	Description	Wt. (lbs.)	1	10
2081342	GB200	100 assorted axial chokes & inductors	2.0 .....	\$9.95	\$8.95

## Resistor and Resistor Network Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10
134130	GB115	200 asst. 1/8, 1/4, 1/2 resistors (2.5&10%)	0.8 .....	\$5.95	\$4.95
18104	GB116	200 assorted 1/4W resistors (5&10%)	0.1 .....	4.95	3.95
135351	GB116LB	2000 assorted 1/4W resistors	0.8 .....	14.95	12.95
18139	GB117	200 assorted 1/2W resistors (5&10%)	0.2 .....	6.95	5.95
18163	GB118	200 asst. 1/8W resistor networks (28&5%)	0.3 .....	4.95	4.49

## Trimmers, Single and Multi-Turn Potentiometers

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18075	GB113	100 assorted 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)	0.1 .....	\$6.95	\$5.95
18278	GB174	100 assorted 1/4W, 1/2W & 3/4W multi-turn pots (100Ω to 5MΩ assorted values)	0.2 .....	9.95	8.95
135407	GB174LB	300 assorted 1/4W, 1/2W & 3/4W multi-turn pots (100Ω to 5MΩ assorted values)	1.0 .....	19.95	17.95

## LEDs, 7-Segment Displays and Photocells

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
18041	GB110	100 assorted sizes & colored LEDs (T1 & T1½ round and rectangular)	0.1 ...	\$7.95	\$6.95	\$5.95
18323	GB186	500 assorted sizes #18041 LEDs	0.3 ..	24.95	21.95	19.95
135271	GB110LB	1900 assorted #18041 LEDs	1.0 ..	59.95	54.95	49.95
18201	GB162	50 assorted sizes of colored displays (7-segment LED, modules, stick)	0.5 ..	10.95	9.95	8.95
169578	GB125	100 assorted values photocells	0.2 ..	21.95	19.95	17.95

## Schwab's Electronic Component School Selection

Jameco's nine (9) most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.



**Includes:** Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

Part No.	Product No.	Description	Wt. (lbs.)	1	10	50
163213	GB197	Schwab's School Selection	2.2 ..	\$49.95	\$44.95	\$39.95
319600	6897CAB	20 drawer component cabinet	3.5 .....	16.95	15.49	13.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

Passives

## Integrated Circuits, Sockets and Male Headers

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17996	GB108	100 assorted TTL DIP & SMDs (74, 74ALS, 74HC, 74HCT, 74F, 74LS, 74S)	0.2 .....	\$9.95	\$8.95
135280	GB108LB	400 assorted TTL series DIP & SMDs (same as P/N 17996, above)	1.0 .....	24.95	22.49
18024	GB109	100 asst. linear series (NSC, Motorola, TI) TO-3, 8 & 14-pin DIP, SOIC packages	0.1 .....	12.95	11.49
145242	GB109LB	300 assorted linear series (NSC, Motorola, TI) TO-3, 8 & 14-pin DIP, SOIC packages	0.5 .....	29.95	26.95
105620	GB120	100 assorted sockets (DIP, PGA, SIMM, SIP)	0.3 .....	6.95	5.95
135386	GB120LB	300 assorted sockets (DIP, PGA, SIMM, SIP)	1.0 .....	14.95	12.95
2095138	GB204	100 assorted .100 male headers (breakaway) Straight, right angle, single and double row	0.3 .....	9.95	8.95

## Diodes, Transistors and Crystals/Oscillators

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17961	GB107	200 assorted diodes (zener, switching, silicon)	0.1 .....	\$9.95	\$8.95
18171	GB127	100 assorted transistors (NPN, PNP, power)	0.1 .....	7.95	6.95
114446	GB150	100 assorted crystals/oscillators	0.2 .....	7.95	6.95

## Switches, Toy Motors, Gears and Fans

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18235	GB165	50 assorted switches (toggle, pushbutton, rocker, slide)	0.4 .....	\$8.95	\$7.95
135378	GB165LB	150 assorted #18235 switches	2.0 .....	19.95	17.95
18294	GB182	5 assorted toy DC motors (1.5–24V)	0.5 .....	7.95	6.95
149649	GB193	5 assorted AC&DC fans (photo above)	4.5 .....	9.95	8.95
1943094	GB198	30 assorted gears & shafts, plastic/nylon (20, 22, 23, 26, 30, 58, 63 teeth vary)	0.3 .....	12.95	10.95

## Spacer, Standoff and Terminal Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10
55968	GB140	100 assorted 4-40, 6-32, 8-32 round/hex, alum/brass/nylon, spacers/standoffs	0.3 .....	\$14.95	\$12.95
135423	GB140LB	300 assorted same as P/N 55968	1.0 .....	29.95	26.95
2082118	GB203	100 assorted solderless terminals spade, ring, faston, butt, crimp types	0.2 .....	7.95	6.95

## Screw Hardware & Drill Bit Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
171571	GB149	500 assorted types of screws, nuts, washers & lock washers	1.0 .....	\$6.95	\$5.95	\$4.95
171635	GB149LB	1400 asst. same as P/N 171571	3.2 .....	15.95	14.95	13.95
2082038	GB202	20 assorted drill bits 10 sizes: .021" (#75) thru .12" (#31)	0.3 .....	14.95	13.49	11.95

## Bumpers and Rubber Feet Assortment

Part No.	Product No.	Description	1	10
2081385	GB201	100 assorted bumpers & adhesive rubber feet	\$8.95	\$7.95

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Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, ICs, connectors, sockets, headers, thermistors, LEDs, resistor networks, diodes, standoffs, transistors, oscillators/resonators, inductors, crystals, resistors, pots and switches (1000 pcs.)

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Part No.	Product No.	Description	1	10
135263	GB191LB	1000 assorted pieces electronic components	\$19.95	\$17.95



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# Electrolytic Capacitors

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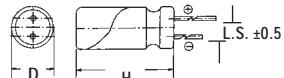
JAMECO ValuePro



## Aluminum Radial-Lead Polarized Electrolytic Capacitors ( $\pm 20\%$ ) 85°C

\* Web Code: CCE

Leakage Current (20°C)	After 1 min.	0.03CV or 4 $\mu$ A, whichever is greater
	After 2 min.	0.01CV or 3 $\mu$ A, whichever is greater



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UVR; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

\* Order in multiples of 10

Part No.	Cross Ref. No. <sup>†</sup>	*Mfr.	Value ( $\mu$ F)	Volt	Size (mm)* D x H x L.S.	Pricing				
						1	10	100	500	
609043	UVR2A0R1MDD <sup>R</sup>	JVP	0.1	100	5 x 11 x 2	*	\$0.09	\$0.07	\$0.05	
330465	RA0.47/50 <sup>R</sup>	JVP	0.47	50	5 x 11 x 2	*	.05	.04	.03	
94326	7R1/50	◆	1	50	4 x 7 x 2.1	*	.06	.05	.04	
330431	RA1/25 <sup>R</sup>	JVP	1	25	5 x 11 x 2	*	.06	.05	.04	
29831	R1/50	◆	1	50	5 x 11 x 2	*	.06	.05	.04	
29833	R1/50 <sup>R</sup>	JVP	1	50	5 x 11 x 2	*	.08	.06	.05	
94161	5R1/50 <sup>R</sup>	JVP	1	50	4 x 5 x 1.5	*	.13	.10	.08	
330941	RN1/50 <sup>R</sup> **	JVP	1	50	5 x 11 x 2	*	.15	.12	.09	
115423	R1/63 <sup>R</sup>	◆	1	63	5 x 11 x 2	*	.04	.03	.02	
1946324	R2.2/6.3TR	◆	2.2	6.3	4 x 8 x 4.5	*	.05	.02	.01	
93729	R2.2/50	◆	2.2	50	5 x 11 x 2	*	.07	.05	.04	
93731	R2.2/50 <sup>R</sup>	JVP	2.2	50	5 x 11 x 2	*	.08	.06	.05	
31000	R4.7/50	◆	4.7	50	5 x 11 x 2	*	.06	.05	.04	
31002	R4.7/50 <sup>R</sup>	JVP	4.7	50	5 x 11 x 2	*	.08	.06	.05	
1946341	R10/6.3ATR	◆	10	6.3	4 x 7 x 5	*	.04	.03	.02	
1946332	R10/6.3TR	◆	10	6.3	3 x 6 x 4	*	.04	.03	.02	
198839	R10J/16 <sup>R</sup>	JVP	10	16	5 x 11 x 2	*	.08	.06	.045	
1946367	R10/25ATR	◆	10	25	5 x 11 x 5	*	.05	.04	.03	
1946359	R10/25TR	◆	10	25	4 x 7 x 5	*	.05	.04	.03	
94212	5R10/25 <sup>R</sup>	JVP	10	25	4 x 5 x 1.5	*	.10	.08	.06	
330916	RN10/25 <sup>R</sup> **	JVP	10	25	5 x 11.5 x 1.5	*	.15	.12	.09	
94221	5R10/35 <sup>R</sup>	JVP	10	35	5 x 5 x 2	*	.10	.08	.06	
29891	R10/50	◆	10	50	5 x 11 x 2	*	.06	.05	.04	
29893	R10/50 <sup>R</sup>	JVP	10	50	5 x 11 x 2	*	.10	.08	.06	
330482	RA10/63 <sup>R</sup>	JVP	10	63	5 x 11 x 2	*	.10	.08	.06	
330609	RA10/250 <sup>R</sup>	JVP	10	250	10 x 16 x 5	.35	.25	.19	.15	
1946287	R22/10TR	◆	22	10	5 x 11 x 5	*	.05	.02	.01	
1946295	R22/16	◆	22	16	5 x 12 x 5	*	.05	.03	.015	
1946308	R22/25TR	◆	22	25	5 x 11 x 5	*	.05	.03	.015	
198943	EC223H511 <sup>R</sup>	JVP	22	35	5 x 11 x 2	*	.05	.03	.02	
1946316	R22/50TR	◆	22	50	5 x 12 x 5	*	.06	.04	.03	
93739	R22/50 <sup>R</sup>	JVP	22	50	5 x 11 x 2	*	.08	.06	.05	
93747	R33/50 <sup>R</sup>	JVP	33	50	6.3 x 11 x 2.5	*	.11	.09	.07	
608999	UVR1J330MED <sup>R</sup>	JVP	33	63	6.3 x 11 x 2.5	*	.09	.07	.05	
1946244	R47/16TR	◆	47	16	5 x 12 x 5	*	.05	.03	.02	
198863	R47J/16 <sup>R</sup>	JVP	47	16	6.3 x 11 x 2.5	*	.08	.06	.05	
1946252	R47/35TR	◆	47	35	6 x 12 x 5	*	.04	.03	.02	
198952	R47J/35 <sup>R</sup>	JVP	47	35	5 x 11 x 2	*	.10	.08	.06	
31114	R47/50	◆	47	50	6 x 11 x 2.5	*	.06	.05	.04	
31116	R47/50 <sup>R</sup>	JVP	47	50	6.3 x 11 x 2.5	*	.11	.09	.07	
330617	RA47/250 <sup>R</sup>	JVP	47	250	13 x 25 x 5	.55	.45	.35	.29	
609289	UVR2V470MHD <sup>R</sup>	JVP	47	350	16 x 35.5 x 7.5	.75	.55	.45	.35	
330676	RA47/450 <sup>R</sup>	JVP	47	450	18 x 30 x 7.5	1.09	.89	.75	.59	
1946261	R68/16TR	◆	68	16	5 x 11 x 5	*	.04	.03	.02	
207811	R100/10	◆	100	10	5 x 11 x 2	*	.05	.03	.02	
94432	7R100/16 <sup>R</sup>	JVP	100	16	6 x 7 x 2.5	*	.08	.06	.05	
330422	RA100/16 <sup>R</sup>	JVP	100	16	5 x 11 x 2	*	.10	.08	.06	
94289	5R100/16 <sup>R</sup>	JVP	100	16	6.5 x 5 x 2.5	*	.15	.12	.09	
93761	R100/25	◆	100	25	6 x 11 x 2.5	*	.08	.06	.05	
198970	R100J/35 <sup>R</sup>	JVP	100	35	6.3 x 11 x 2.5	*	.10	.08	.06	
29962	R100/50	◆	100	50	8 x 11 x 3.5	*	.10	.08	.06	
29964	R100/50 <sup>R</sup>	JVP	100	50	8 x 11.5 x 3.5	*	.13	.10	.08	

Note: Above case sizes may have  $\pm$  tolerances \*TR" at the end of Cross Ref. numbers are Tape and Reel

Part No.	Cross Ref. No. <sup>†</sup>	*Mfr.	Value ( $\mu$ F)	Volt	Size (mm)* D x H x L.S.	Pricing				
						1	10	100	500	
330529	RA100/100 <sup>R</sup>	JVP	100	100	10 x 17 x 5	*	\$1.19	\$1.15	\$1.13	
330580	RA100/160S <sup>R</sup>	JVP	100	160	16 x 25 x 7.5	.65	.49	.39	.29	
330625	RA100/250 <sup>R</sup>	JVP	100	250	16 x 31.5 x 7.5	1.09	.85	.65	.49	
330684	RA100/450 <sup>R</sup>	JVP	100	450	22 x 42.5 x 10.5	2.49	2.25	1.95	1.69	
135125	7R220/10 <sup>R</sup>	JVP	220	10	6 x 7 x 2.5	*	.08	.06	.04	
198872	R220J/16 <sup>R</sup>	JVP	220	16	6.3 x 11 x 2.5	*	.11	.09	.07	
30496	R220/25	◆	220	25	8 x 11 x 3.5	*	.10	.08	.06	
30498	R220/25 <sup>R</sup>	JVP	220	25	8.5 x 11 x 3.5	*	.10	.08	.06	
93772	R220/35 <sup>R</sup>	JVP	220	35	8 x 12 x 3.5	*	.15	.12	.09	
93778	R220/50	◆	220	50	10 x 12 x 5	*	.14	.11	.08	
93780	R220/50 <sup>R</sup>	JVP	220	50	10 x 16 x 5	.19	.15	.12	.09	
609115	UVR2C221MHD <sup>R</sup>	JVP	220	160	16 x 30 x 7.5	.75	.65	.59	.49	
93796	R330/25	◆	330	25	10 x 12 x 5.0	*	.12	.09	.07	
198978	R330J/35 <sup>R</sup>	JVP	330	35	10 x 12.5 x 5	*	.19	.15	.12	
330473	RA330/50 <sup>R</sup>	JVP	330	50	10 x 16 x 5	.29	.22	.19	.14	
1946279	R470/10TR	◆	470	10	6 x 11 x 5	*	.06	.05	.04	
93809	R470/16	◆	470	16	8 x 11 x 3.5	*	.13	.10	.08	
93811	R470/16 <sup>R</sup>	JVP	470	16	8 x 11.5 x 3.5	.29	.22	.17	.14	
31181	R470/25 <sup>R</sup>	◆	470	25	10 x 12 x 5	*	.19	.15	.12	
31183	R470/25 <sup>R</sup>	JVP	470	25	10 x 12.5 x 3.5	.35	.25	.19	.15	
93817	R470/35	◆	470	35	10 x 16 x 5	.29	.22	.17	.14	
93819	R470/35 <sup>R</sup>	JVP	470	35	10 x 16 x 5	.39	.32	.25	.19	
93825	R470/50	◆	470	50	12 x 20 x 5	.35	.25	.19	.15	
93827	R470/50 <sup>R</sup>	JVP	470	50	10 x 20 x 5	.39	.32	.25	.19	
158465	R470B63+	JVP	470	63	13 x 20 x 5	.69	.55	.45	.35	
199102	R470J/100 <sup>R</sup>	JVP	470	100	16 x 25 x 7.5	1.15	.89	.69	.55	
609140	UVR2C471MHD <sup>R</sup>	JVP	470	160	22 x 40 x 10	1.29	1.09	.99	.89	
330456	RA680/25S	JVP	680	25	8 x 16 x 3.5	1.09	.85	.65	.49	
1945436	R1000/6.3	◆	1000	6.3	10 x 13 x 5	*	.09	.07	.05	
30015	R1000/16	◆	1000	16	10 x 16 x 5	.25	.22	.16	.12	
30017	R1000/16 <sup>R</sup>	JVP	1000	16	10 x 16 x 5	.35	.25	.19	.15	
93833	R1000/25	◆	1000	25	10 x 20 x 5	.35	.25	.19	.15	
93835	R1000/25 <sup>R</sup>	JVP	1000	25	10 x 20 x 5	.39	.32	.25	.19	
93841	R1000/50	◆	1000	50	6.5 x 11.3 x 2.2	.65	.49	.39	.32	
93843	R1000/50 <sup>R</sup>	JVP	1000	50	13 x 25 x 5	.75	.59	.49	.39	
199111	R1000J/100 <sup>R</sup>	JVP	1000	100	18 x 41 x 7.5	1.75	1.49	1.25	.99	
30533	R2200/25	◆	2200	25	12 x 25 x 5.0	.65	.49	.39	.29	
30535	R2200/25 <sup>R</sup>	JVP	2200	25	13 x 21 x 5	.69	.55	.45	.35	
198986	R2200J/35 <sup>R</sup>	JVP	2200	35	16 x 25 x 7.5	.85	.69	.55	.45	
608956	UVR1H222MHD <sup>R</sup>	JVP	2200	50	16 x 30 x 7.5	1.15	.89	.69	.55	
198898	R3300J/16 <sup>R</sup>	JVP	3300	16	13 x 21 x 5	.65	.49	.39	.29	
30893	R3300/25 <sup>R</sup>	JVP	3300	25	13 x 29 x 5	.85	.69	.55	.45	
198994	R3300J/35 <sup>R</sup>	JVP	3300	35	16 x 30 x 7.5	1.09	.89	.75	.59	
19										

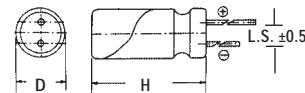
## Aluminum Radial-Lead Polarized Electrolytic Capacitors ( $\pm 20\%$ ) 105°C

\* Web Code: HAA



### 105°C – HT Type General Purpose

Leakage Current (20°C)	After 1 min.		0.03CV or 4μA, whichever is greater	
	After 2 min.		0.01CV or 3μA, whichever is greater	



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UPW/UVZ/UHE; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

\* Order in multiples of 10

Part No.	Cross Ref. No. †	*Mfr. Value (μF)	Size (mm)* D x H x L.S.	Pricing			
				1	10	100	500
609545	UVZ1H0R1MDD	JVP 0.1	5 x 11 x 2	*	\$ .11	\$ .08	\$ .06
330772	RB1/50	JVP 1	5 x 11 x 2	*	.07	.05	.036
158491	R1B100	JVP 1	5 x 11 x 2	*	.12	.09	.07
609959	UVZ2E010MED	JVP 1	8 x 11 x 3.5	*	.12	.09	.07
609561	UVZ1H2R2MDD	JVP 2.2	5 x 11.5 x 2	*	.09	.06	.045
330781	RB4.7/50	JVP 4.7	5 x 11 x 2	*	.07	.05	.04
330692	RB10/16	JVP 10	5 x 11 x 2	*	.11	.08	.06
330799	RB10/50	♦ 10	5 x 11 x 2	*	.07	.05	.037
607849	UPW1H100MDD	JVP 10	5 x 11 x 2	*	.12	.09	.07
609641	UVZ1J100MDD	JVP 10	5 x 11 x 2	*	.15	.11	.09
610036	UVZ2W100MHD	JVP 10	13 x 21 x 5	.65	.49	.39	.32
158327	R22B35	JVP 22	5 x 11 x 2	*	.09	.06	.045
609650	UVZ1J220MDD	JVP 22	5 x 11 x 2	*	.10	.08	.06
609828	UVZ2C220MPD	JVP 22	10 x 15 x 5	*	.19	.15	.12
609975	UVZ2E220MHD	JVP 22	13 x 20 x 5	.29	.25	.19	.15
607929	UPW1H270MHD	JVP 27	5 x 11 x 2	*	.09	.07	.05
607945	UPW1H330MED	JVP 33	6.3 x 11 x 2.5	*	.15	.12	.09
609684	UVZ1J330MED	JVP 33	6.3 x 11 x 2.8	*	.12	.09	.07
608374	UPW2A330MPD	JVP 33	8 x 15 x 3.5	*	.12	.09	.07
609502	UVZ1C470MDD	JVP 47	5 x 11 x 2	*	.10	.07	.05
1945428	R47/35	♦ 47	6.3 x 11 x 2	*	.10	.07	.05
330820	RB47/50	JVP 47	6.3 x 11 x 2.5	*	.11	.08	.06
608139	UPW1J470MPD	JVP 47	8 x 11.5 x 3.5	*	.19	.15	.12
2100241	RB47/100	JVP 47	10 x 16 x 5	.35	.25	.19	.15
610010	UVZ2E470MHD	JVP 47	13 x 25 x 5	.65	.49	.39	.32
606862	UHE1H560MED	JVP 56	8.0 x 11 x 3.5	*	.09	.07	.05
1946228	RB100/10	♦ 100	5 x 11 x 3.5	*	.07	.05	.04
330740	RB100/25	JVP 100	6.3 x 11 x 2.5	*	.11	.08	.06
158394	R100B50	JVP 100	8 x 11.5 x 3.5	*	.15	.12	.09
608032	UPL1J101MHM	JVP 100	13 x 15 x 5	*	.09	.07	.05
609748	UVZ2A101MPD	JVP 100	10 x 20 x 5	.39	.32	.25	.19
609967	UVZ2E101MHD	JVP 100	16 x 31 x 7.5	1.35	1.09	.85	.65
608340	ECA1JFQ151L	JVP 150	10 x 21 x 5	*	.12	.09	.07
1946236	RB180/10	♦ 180	6.5 x 11 x 2.5	*	.05	.04	.03
207845	R180/16	JVP 180	6 x 15 x 2.5	*	.05	.04	.03
606934	EEUCF1J181	JVP 180	10 x 20 x 5	*	.12	.09	.07
606555	UHE1A221MED	JVP 220	6.3 x 11 x 2.5	*	.07	.05	.04
158263	R220B25	JVP 220	8 x 11 x 3.5	*	.15	.11	.08
158407	R220B50+	JVP 220	10 x 17 x 5	.39	.32	.25	.19

\* Order in multiples of 10

Part No.	Cross Ref. No. †	*Mfr. Value (μF)	Size (mm)* D x H x L.S.	Pricing			
				1	10	100	500
606820	UHE1H221MPD	JVP 220	10 x 16 x 5	\$ .39	\$ .32	\$ .25	\$ .19
609764	UVZ2A221MHD	JVP 220	13 x 26 x 5	.45	.35	.25	.22
609721	UVZ1V331MPD	JVP 330	10 x 16 x 5	*	.19	.15	.12
607136	UHE2A331MHD	JVP 330	12.5 x 40 x 5	.65	.59	.55	.49
609852	UVZ2C331MHD	JVP 330	18 x 40 x 7.5	.65	.59	.55	.49
606977	UHE1J391MHD	JVP 390	18 x 15 x 7.5	.29	.25	.19	.15
158203	R470B16	JVP 470	8 x 11 x 3.5	*	.19	.15	.12
158289	R470B25+	♦ 470	10 x 16 x 5	*	.19	.15	.12
606740	UHE1A471MPD	JVP 470	10 x 17 x 5	.32	.25	.19	.15
606854	UHE1H471MPD	JVP 470	13 x 20 x 5	.45	.35	.29	.22
608016	UPW1H561MHD	JVP 560	13 x 25 x 5	.49	.39	.29	.25
606871	UHE1H681MHD	JVP 680	13 x 28 x 5	.85	.65	.49	.39
608163	UPW1J681MHD	JVP 680	16 x 25 x 5	.49	.45	.39	.35
607689	UPW1C821MPD	JVP 820	10 x 20 x 5	*	.19	.15	.12
606432	UHEOJ102MPD	JVP 1000	8 x 14 x 3.5	*	.17	.12	.09
330722	RB1000/16	JVP 1000	10 x 20 x 5	.35	.29	.22	.17
158298	R1000B25	JVP 1000	10 x 17 x 5	.45	.35	.29	.22
158378	R1000B35	JVP 1000	13 x 21 x 5	.55	.45	.35	.25
609553	UVZ1H102MHD	JVP 1000	13 x 25 x 5	.55	.45	.35	.29
607216	UPW0J122MPD	JVP 1200	10 x 15 x 5	*	.15	.12	.10
606627	UHE1C122MPD	JVP 1200	10 x 24 x 5	.32	.25	.19	.15
606918	UHE1J122MHD	JVP 1200	16 x 40 x 7.5	.59	.55	.49	.45
607232	UPW0J152MPD	JVP 1500	10 x 20 x 5	.39	.32	.25	.19
607398	UPW1A152MPD	JVP 1500	10 x 20 x 5	.39	.32	.25	.19
607742	UPW1E152MHD	JVP 1500	12.5 x 25 x 5	.45	.35	.29	.25
607873	UPW1H152MHD	JVP 1500	16 x 30 x 7.5	.99	.89	.79	.69
606467	UHEOJ182MPD	JVP 1800	10 x 20 x 5	.35	.25	.19	.15
607751	UPW1E182MHD	JVP 1800	13 x 25 x 5	.75	.59	.45	.35
609342	UVZ0J222MPD	JVP 2200	10 x 20 x 5	.39	.32	.25	.19
606563	UHE1A222MPD	JVP 2200	10 x 24 x 5	.45	.35	.29	.22
609705	UVZ1V222MHD	JVP 2200	16 x 26 x 7.5	.69	.55	.45	.35
158432	R2200B50	JVP 2200	16 x 30 x 7.5	.99	.79	.65	.55
608278	UPW1V332MHD	JVP 3300	18 x 33 x 7.5	1.35	1.15	.95	.75
609588	UVZ1H332MHD	JVP 3300	18 x 36 x 7.5	1.49	1.25	1.05	.85
607814	UPW1E472MHD	JVP 4700	18 x 35 x 7.5	1.25	1.05	.85	.65
607697	UPW1C822MHD	JVP 8200	16 x 33 x 7.5	1.19	.99	.89	.75
609473	UVZ1C103MHD	JVP 10000	18 x 41 x 7.5	1.19	.99	.89	.75
609326	UVZ0J153MHD	JVP 15000	16 x 35.5 x 7.5	.59	.55	.49	.45

\* Capacitor dimensions and styles may vary on items with various manufacturers

† Screw terminals

Passives

## Snap-Mount Large-Can Aluminum Electrolytic Capacitors ( $\pm 20\%$ )



\* Web Code: EBG

Part No.	Cross Ref. No.	*Mfr. Value (μF)	Size (mm)* D x H x L.S.	Pricing		
				1	10	100
331846	SNA120/450	JVP 120	450	\$2.49	\$2.25	\$1.95
331811	SNA470/250	JVP 470	250	1.95	1.75	1.49
203263	SNB470/400/5	JVP 470	450	6.95	5.95	4.95
155889	SN560/200	♦ 560	200	1.09	.99	.89
115378	SNB4700/35	♦ 4700	35	25 x 40 x 9	.99	.89
115422	SNA4700/50	JVP 4700	50	30 x 41 x 9.5	1.29	1.09

Part No.	Cross Ref. No.	*Mfr. Value (μF)	Size (mm)* D x H x L.S.	Pricing		
				1	10	100
331723	SNA4700/63	JVP 4700	63	25 x 40 x 9.1	\$3.49	\$3.15
331901	SNB6800/50	JVP 6800	50	25.2 x 42.4 x 9	3.95	3.49
157738	SNB10000/50	JVP 10000	50	35 x 40 x 12	4.75	3.75
331716	SNA15000/25	JVP 15000	25	25 x 41 x 9	3.49	2.95
2120022	U32D†	♦ 33000	50	35 x 117 x 13	9.95	8.95
609326	UVZ0J153MHD	JVP 15000	6.3	16 x 35.5 x 7.5	.59	.55

\* Capacitor dimensions and styles may vary on items with various manufacturers

† Screw terminals

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

45

# Electrolytic & Dipped Tantalum Capacitors

JAMECO ValuePro



## Aluminum Axial-Lead Electrolytic Capacitors ( $\pm 20\%$ ) $85^\circ\text{C}$

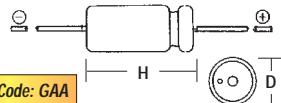
Operating temperature range	-40°C to +85°C			
Leakage Current (After 2 minutes 20°C)	0.02CV or 2µA, whichever is greater			

\* Order in multiples 10

Part No.	Product No.	*Mfr. (µF)	Value	Size (mm)*	Pricing				
					D x H	1	10	100	500
10866	A1/50	◆	1	50V 5 x 13		.*	\$0.17	\$0.14	\$0.11
10868	A1/50R	JVP	1	50V 5 x 12		.29	.22	.17	.14
93569	A2.2/50	◆	2.2	50V 6 x 13		.*	.15	.12	.09
11076	A4.7/50	◆	4.7	50V 6 x 13		.*	.17	.14	.11
1946201	A10/16A	◆	10	16V 5 x 13		.*	.06	.04	.03
1946199	A10/16	◆	10	16V 4 x 7		.*	.08	.04	.03
10882	A10/50	◆	10	50V 6 x 12		.*	.15	.12	.09
10884	A10/50R	JVP	10	50V 6 x 12		.*	.15	.12	.09
331425	AB10/450R	JVP	10	450V 13 x 25		.95	.75	.59	.49
1946210	A22/16	◆	22	16V 5 x 11		.*	.09	.05	—
199268	A22J/25R	JVP	22	25V 6 x 12.5		.*	.15	.12	.09
331433	AB22/450R	JVP	22	450V 16 x 26.5		1.75	1.49	1.25	.99
2081730	A33/35	JVP	33	35V 7 x 14		.*	.12	.09	.07
135319	A47/25	◆	47	25V 8 x 16		.*	.17	.14	.11
199188	A100J/16R	JVP	100	16V 6 x 12.5		.29	.22	.17	.14
199284	A100J/25R	JVP	100	25V 8 x 15		.*	.19	.15	.12
93551	A100/35	◆	100	35V 8 x 16		.29	.22	.17	.14
10911	A100/50	◆	100	50V 8 x 20		.29	.22	.17	.14
10913	A100/50R	JVP	100	50V 8 x 16		.32	.25	.19	.15
331380	AB100/100R	JVP	100	100V 10 x 20.5		.45	.39	.35	.29

\* Capacitor dimensions and styles may vary on items with various manufacturers

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN



\* Web Code: GAA

Passives

Part No.	Product No.	*Mfr. (µF)	Value	Size (mm)*	Pricing				
					D x H	1	10	100	500
331417	AB100/250R	JVP	100	250V 16 x 31		\$2.49	\$2.25	\$1.95	\$1.75
11019	A220/50R	JVP	220	50V 10 x 17		.49	.39	.32	.27
199217	A470J/16R	JVP	470	16V 8 x 17		.35	.29	.22	.17
199381	A470J/35R	JVP	470	35V 10 x 21		.39	.32	.25	.19
11123	A470/50R	JVP	470	50V 13 x 22		.75	.59	.49	.39
93633	A1000/16R	JVP	1000	16V 10 x 21		.35	.29	.25	.19
10954	A1000/25	◆	1000	25V 13 x 31		.65	.49	.39	.32
10956	A1000/25R	JVP	1000	25V 10 x 20		.75	.59	.49	.39
93649	A1000/35	◆	1000	35V 13 x 26		.75	.59	.49	.39
93651	A1000/35R	JVP	1000	35V 13 x 22		.85	.69	.59	.49
147256	A1000/50	◆	1000	50V 16 x 31		.75	.59	.49	.39
11033	A2200/16	◆	2200	16V 16 x 40		.85	.69	.59	.49
93658	A2200/35R	JVP	2200	35V 16 x 30		1.25	.99	.79	.65
199479	A2200J/50R	JVP	2200	50V 18 x 33		1.95	1.75	1.49	1.25
93666	A3300/25	JVP	3300	25V 16 x 30		.85	.65	.55	.49
199487	A3300J/50R	JVP	3300	50V 22 x 43		2.49	2.25	1.95	1.75
93673	A4700/25	JVP	4700	25V 22 x 39		1.35	1.15	.95	.75
158811	A4700A50R	JVP	4700	50V 22 x 43		2.49	2.25	1.95	1.75
93681	A10000/16	◆	10000	16V 22 x 51		1.95	1.75	1.49	1.25
93683	A10000/16R	JVP	10000	16V 16 x 40		1.95	1.75	1.49	1.25



\* Order in multiples 10

Part No.	Product No.	*Mfr. (µF)	Value	Volt	Size (mm)*	Pricing				
						D x H x L.S.	1	10	100	500
33486	TM.1/35	◆	.10	35	4.5 x 7.0 x 5.2		\$0.32	\$0.25	\$0.19	\$0.15
33488	TM.1R	JVP	.10	35	4.5 x 7.0 x 2.5		.39	.32	.25	.19
545561	TAP104K035SCSR	JVP	.10	35	4.0 x 6.0 x 2.5		.39	.32	.25	.19
545570	TAP104K050SCSR	JVP	.10	50	4.0 x 6.0 x 2.5		*	.19	.15	.12
33507	TM.22/35	◆	.22	35	4.5 x 7.0 x 5.0		.32	.25	.19	.15
33523	TM.33/35	◆	.33	35	4.5 x 7.0 x 2.5		.32	.25	.19	.15
33525	TM.33R	JVP	.33	35	4.5 x 7.0 x 2.5		.39	.32	.25	.19
33531	TM.47/35	◆	.47	35	4.5 x 7.0 x 2.7		.32	.25	.19	.15
33533	TM.47R	JVP	.47	35	4.5 x 7.0 x 2.5		.39	.32	.25	.19
61102	TM.68	JVP	.68	35	4.5 x 7.0 x 2.5		*	.12	.09	.07
546142	TAP684K050SCSR	JVP	.68	50	4.3 x 7.0 x 2.5		*	.19	.15	.12
154860	TM1/25	◆	1	25	4.5 x 7.0 x 4.7		.32	.25	.19	.15
545588	TAP105K025SCSR	JVP	1	25	4.3 x 7.0 x 2.5		.39	.32	.25	.19
154862	TM1/25R	JVP	1	25	4.5 x 7.0 x 2.5		.39	.32	.25	.19
33662	TM1/35	◆	1	35	4.5 x 7.0 x 2.7		.35	.29	.22	.17
545596	TAP105K035SCSR	JVP	1	35	4.3 x 7.0 x 2.5		.39	.32	.25	.19
33664	TM1R	JVP	1	35	4.5 x 7.0 x 2.5		.39	.32	.25	.19
545609	TAP105K050SCSR	JVP	1	50	4.7 x 7.5 x 2.5		.59	.55	.45	.29
94001	TM2.2/16	◆	2.2	16	4.5 x 7.0 x 4.7		.32	.25	.19	.15
94003	TM2.2/16R	JVP	2.2	16	4.5 x 7.0 x 2.5		.35	.25	.22	.17
33736	TM2.2/35R	JVP	2.2	35	5.0 x 8.0 x 2.5		.35	.29	.22	.17
332152	TDR2.2/50	JVP	2.2	50	6.5 x 11 x 2.5		.49	.45	.39	.35
545941	TAP335K025SCSR	JVP	3.3	25	4.3 x 7.0 x 2.5		.45	.35	.29	.22
545967	TAP335K050SCSR	JVP	3.3	50	5.4 x 8.0 x 2.5		.59	.49	.39	.35
94035	TM4.7/16	◆	4.7	16	5.0 x 8.0 x 2.5		.35	.29	.22	.17

Note: Above case sizes may have ± tolerances

\* Capacitor dimensions and styles may vary

Capacitors continued on next page

\* JVP = Jameco ValuePro | ◆ Manufacturer Varies

R RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Resin Dipped Solid Tantalum Capacitors ( $\pm 10\%$ ) (Continued)

Part No.	Product No.	*Mfr.	Value ( $\mu$ F)	Volt (V)	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
94107	TM22/25	◆	.22	25	8.5 x 13.0 x 3.2	\$1.59	\$1.35	\$1.09	\$.89
545879	TAP226K025SCS $\text{R}$	JVP	.22	25	6.0 x 9.4 x 2.5	1.75	1.49	1.25	.99
332101	TDR22/35 $\diamond$	JVP	.22	35	8.5 x 13 x 2.5	1.29	1.09	.95	.89
545887	TAP226K035SCS $\text{R}$	JVP	.22	35	7.0 x 11.0 x 2.5	1.75	1.49	1.29	1.09
545991	TAP336K016SCS $\text{R}$	JVP	.33	16	6.0 x 9.4 x 2.5	.95	.85	.75	.65
546003	TAP336K020SCS $\text{R}$	JVP	.33	20	6.0 x 9.4 x 2.5	.59	.55	.49	.45
33785	TM33/25	◆	.33	25	8.5 x 13.0 x 4.7	1.75	1.49	1.25	.99
546020	TAP336K035CCS $\text{R}$	JVP	.33	35	8.2 x 12.5 x 2.5	1.95	1.75	1.45	1.29
546100	TAP476K010SCS $\text{R}$	JVP	.47	10	6.0 x 9.4 x 2.5	1.25	.99	.79	.65
94123	TM47/16	◆	.47	16	5.2 x 8.2 x 2.5	1.49	1.25	.99	.79

\* Blue Part No. = Limited Quantity Available

## Ceramic Disc Capacitors ( $\pm 5$ , $\pm 10$ or $\pm 20\%$ )

25, 50, 500 and 1000 Volt, Z5U Temperature Coefficient

- Operating temp. range:  $+10^\circ\text{C}$  to  $+85^\circ\text{C}$
- Dielectric withstanding voltage: 2.5 times rated volt. for not  $< 1$  sec.
- Capacitance change over temp. range: +22% to -56%

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Value	Volt (V)	Tol.	Dia. (mm)	Pricing				
							1	10	100	1000	5000
332291	CD3.3/1000	JVP	3.3pF	1000	20	5	*	\$1.19	\$1.15	\$1.13	\$.09
15333	DC10	◆	10pF	50	20	5	*	.06	.04	.032	.025
332312	CD10/1000	JVP	10pF	1000	20	6	*	.15	.12	.09	.07
332322	CD20/1000 $\text{R}$	JVP	20pF	1000	20	5	.29	.22	.17	.14	.11
15405	DC22	◆	22pF	50	20	6	*	.06	.04	.032	.025
15407	DC22 $\text{R}$	JVP	22pF	50	20	6	*	.07	.05	.035	.028
332217	CD33/50 $\text{R}$	JVP	33pF	50	20	5	*	.08	.06	.045	.035
1947010	DC33TR	◆	33pF	100	10	5	*	.06	.04	.025	.01
1947028	DC33ATR	◆	33pF	500	5	5	*	.06	.04	.02	.015
15512	DC47 $\text{R}$	JVP	47pF	50	20	5	*	.08	.06	.045	.039
1947036	DC47TR	◆	47pF	500	5	6	*	.06	.04	.03	.015
332347	CD47/1000	JVP	47pF	1000	20	5	*	.12	.09	.07	.05
15341	DC100	◆	100pF	50	20	5	*	.06	.04	.032	.025
15343	DC100 $\text{R}$	JVP	100pF	50	20	5	*	.08	.06	.045	.039
1947044	DC100TR	◆	100pF	100	10	8	*	.06	.04	.025	.015
332363	CD120/1000	JVP	120pF	1000	20	5	*	.12	.09	.07	.05
1947052	DC150TR	◆	150pF	100	10	8	*	.05	.03	.02	.01
1947087	DC150ATR	◆	150pF	100	5	4	*	.06	.04	.025	.015
332371	CD150/1000	JVP	150pF	1000	20	5	*	.19	.15	.12	.09
15413	DC220	◆	220pF	50	20	5	*	.06	.04	.025	.015
1947132	DC220TR	◆	220pF	50	5	8	*	.06	.04	.025	.015
1947159	DC220ATR	◆	220pF	100	5	7	*	.06	.04	.025	.015
1947239	DC220BTR	◆	220pF	500	10	10	*	.06	.04	.025	.015
332380	CD220/1000	JVP	220pF	1000	20	5	*	.15	.09	.07	.05
15448	DC330	◆	330pF	50	20	5	*	.05	.03	.02	.015
1947301	DC330TR	◆	330pF	100	20	5	*	.06	.04	.025	.015
1947378	DC330ATR	◆	330pF	500	20	5	*	.06	.04	.02	.015
15528	DC470	◆	470pF	50	20	5	*	.07	.05	.03	.025
1947319	DC470TR	◆	470pF	100	20	5	*	.06	.04	.025	.015

TR at the end of Product Number are Tape and Reel

## Axial Leaded Ceramic Capacitors ( $\pm 5$ , $\pm 10$ , $\pm 20$ or $\pm 100\%$ )

50, 100 and 200 Volt, NPO, X7R and Z5U Temperature

Order in multiples of 10

Part No.	Product No.	*Mfr.	Value	Volt (V)	Temp Co-eff.	Tol.	Pricing		
							10	100	1000
546273	SA102A220JAA	JVP	22pF	200	NPO	5	\$.09	\$.06	\$.05
546265	SA102A101JAA	JVP	100pF	200	NPO	5	.09	.06	.05
546281	SA105A102JAA	JVP	1000pF	50	NPO	5	.09	.06	.05
546249	SA101C102KAA	JVP	1000pF	100	X7R	10	.07	.05	.03
1069763	SA101C222KAA	AVX	2200pF	100	X7R	10	.12	.07	.05

\* AVX = AVX Corp. | JVP = Jameco ValuePro | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

Part No.	Product No.	*Mfr.	Value	Volt (V)	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
546118	TAP476K016SCS $\text{R}$	JVP	.47	16	6.0 x 9.4 x 2.5	\$1.75	\$1.49	\$1.25	\$.99
33822	TM47	◆	.47	25	9.5 x 16.5 x 2.5	1.59	1.35	1.15	.99
546206	TAP686K006SCS $\text{R}$	JVP	.68	16	5.0 x 8.2 x 2.5	.79	.69	.59	.49
546222	TAP686K016SCS $\text{R}$	JVP	.68	16	7.0 x 11.0 x 2.5	1.95	1.75	1.49	1.25
33700	TM100/35	◆	100	6.3	8.5 x 13.0 x 4.7	1.35	1.15	.95	.79
545668	TAP107K006SCS $\text{R}$	JVP	100	6.3	6.0 x 9.4 x 2.5	.95	.85	.75	.65
597450	TAP107K016CCS $\text{R}$	JVP	100	16	7.0 x 11.0 x 2.5	2.75	2.49	2.25	1.95
545684	TAP107K020CCS $\text{R}$	JVP	100	20	8.2 x 12.5 x 2.5	3.49	3.15	2.75	2.49
545772	TAP157K010CCS $\text{R}$	JVP	150	10	7.0 x 11 x 2.5	1.49	1.25	1.09	.95

Note: Above case sizes may have  $\pm$  tolerances

\*Capacitor dimensions and styles may vary

Part No.	Product No.	*Mfr.	Value	Volt (V)	Tol.	Dia. (mm)	Pricing				
							1	10	100	1000	5000
332401	CD470/1000	JVP	.470pF	1000	20	5	*	\$1.17	\$1.14	\$1.11	\$.09
332420	CD560/1000 $\text{R}$	JVP	.560pF	1000	20	6	*	.17	.14	.11	.09
15190	DC.001	◆	.001μF	50	20	6	*	.06	.04	.03	.02
15192	DC.001 $\text{R}$	JVP	.001μF	50	20	6	*	.06	.04	.025	.02
1947343	DC.001TR	◆	.001μF	100	20	4	*	.06	.04	.025	.015
1947394	DC.001ATR	◆	.001μF	500	20	4	*	.05	.03	.02	.015
1947415	DC.001BTR	◆	.001μF	500	10	7	*	.05	.03	.02	.015
332436	CD1000/1000 $\text{R}$	JVP	.001μF	1000	20	5	.32	.25	.19	.15	.12
1947327	DC.0022TR	◆	.0022μF	25	20	4	*	.06	.04	.025	.015
1947386	DC.0022ATR	◆	.0022μF	500	20	7	*	.05	.03	.02	.015
332443	CD2200/1000	JVP	.0022μF	1000	20	6	*	.12	.09	.07	.05
1947407	DC.0033	◆	.0033μF	500	20	9	*	.05	.03	.02	.015
15211	DC.0047	◆	.0047μF	50	20	6	*	.07	.05	.04	.025
1947335	DC.0047TR	◆	.0047μF	100	20	5	*	.06	.04	.025	.015
15229	DC.01	◆	.01μF	50	20	6	*	.06	.04	.032	.025
15231	DC.01 $\text{R}$	JVP	.01μF	50	20	6	*	.07	.05	.035	.03
97375											

# Ceramic & Metallized Capacitors

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

JAMECO ValuePro

## Monolithic Radial Ceramic Capacitors

\* Web Code: JBW

### NPO (COG) Series ( $\pm 5\%$ )

Part No.	Product No.	*Mfr.	Value	Volt.	Size (mm)* W x T x H x L.S.	Order in multiples of 10			
						10	100	1000	5000
332523	COG10/100	JVP	10pF	100	4.0 x 2.0 x 3.2 x 5.1	\$0.09	\$0.07	\$0.06	\$0.04
332541	COG22/100R	JVP	22pF	100	3.6 x 2.3 x 3.6 x 2.5	.13	.09	.07	.05
2080358	RD15CG-240J	◆	24pF	50	4.0 x 2.0 x 3.6 x 2.5	.07	.05	.04	.02
2080331	RD15CG-270J	PDC	27pF	50	4.0 x 2.0 x 3.6 x 2.5	.09	.07	.06	.04
2080323	RD15CG-390MT	PDC	39pF	50	4.0 x 2.0 x 3.6 x 2.5	.09	.07	.06	.04
332567	COG47/100R	JVP	47pF	100	3.8 x 2.0 x 3.3 x 2.5	.12	.09	.07	.05
332574	COG68/100	JVP	68pF	100	3.6 x 1.5 x 3.6 x 5.1	.12	.09	.07	.05
2080340	RD15CG-331J	PDC	330pF	50	4.0 x 2.0 x 3.6 x 2.5	.09	.07	.06	.04

Passives

### X7R Series ( $\pm 10\%$ )

\* Order in multiples of 10

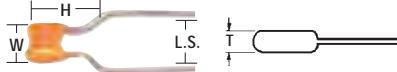
Part No.	Product No.	*Mfr.	Value	Volt.	Size (mm)* W x T x H x L.S.	Order in multiples of 10			
						1	10	100	1000
332583	MOC100/100R	JVP	100pF	100	5.0 x 5.0 x 3.0 x 2.5	*	\$0.12	\$0.09	\$0.05
332612	MOC470/100R	JVP	470pF	100	5.0 x 5.0 x 3.0 x 2.5	*	.19	.15	.12
544825	SR151C102KAA	JVP	1000pF	100	3.8 x 2.5 x 3.8 x 5.1	*	.09	.07	.05
544833	SR151C103KAA	JVP	.01μF	100	3.8 x 2.5 x 3.8 x 2.5	*	.10	.07	.035
597281	SR211C103KAA	JVP	.01μF	100	3.8 x 2.5 x 3.8 x 5.1	*	.09	.07	.05
332647	MOC10000/100R	JVP	.01μF	100	5.0 x 5.0 x 3.0 x 2.5	*	.12	.09	.07
332655	MOC22000/100R	JVP	.022μF	100	5.0 x 5.0 x 3.0 x 2.5	*	.09	.07	.05
544892	SR211C223KAA	JVP	.022μF	100	3.8 x 2.5 x 3.8 x 5.1	*	.14	.10	.08
544905	SR211C333KAA	JVP	.033μF	100	3.8 x 2.5 x 3.8 x 5.1	*	.15	.12	.09
544913	SR211C473KAA	JVP	.047μF	100	3.8 x 2.5 x 3.8 x 5.1	.29	.22	.17	.14
544921	SR215C104KAA	JVP	.1μF	50	3.8 x 2.5 x 3.8 x 5.1	*	.14	.11	.08
544884	SR211C104KAA	JVP	.1μF	100	3.8 x 2.5 x 3.8 x 5.1	*	.15	.12	.08
332672	MOC10000/100R	JVP	.1μF	100	5.0 x 5.0 x 3.0 x 2.5	*	.15	.12	.08
544948	SR305C474KAA	JVP	.47μF	50	3.8 x 2.5 x 3.8 x 5.1	.45	.35	.29	.22

† ±20%

Note: Above case sizes may have ± tolerances

\* Capacitor dimensions and styles may vary

- Data processing
- Communications engineering
- Operating temp. range: -10°C to +85°C



### Z5U Series ( $\pm 20\%$ )

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Value	Volt.	Size (mm)* W x T x H x L.S.	Order in multiples of 10			
						1	10	100	1000
81543	MD10R	JVP	10pF	50	3.5 x 2.0 x 3.0 x 2.5	*	\$0.05	\$0.04	\$0.03
81533	MD22	◆	22pF	50	4.0 x 2.0 x 4.0 x 5.1	*	.12	.09	.07
81525	MD100	◆	100pF	50	3.3 x 2.0 x 3.0 x 2.5	*	.09	.07	.06
81517	MD.001	◆	.001μF	50	4.5 x 2.0 x 3.0 x 2.5	*	.10	.08	.06
138181	MD.022	◆	.0022μF	50	4.0 x 2.0 x 5.5 x 2.5	*	.10	.08	.06
25507	MD.01	◆	.01μF	50	3.5 x 2.0 x 3.0 x 2.5	*	.12	.09	.07
2080366	RD16ZU-153M	PDC	.015μF	50	3.7 x 1.8 x 3.0 x 5.1	*	.05	.04	.03
57621	MD.047	◆	.047μF	50	2.5 x 2.5 x 3.0 x 2.5	*	.12	.09	.07
25523	MD.1	◆	.1μF	50	6.0 x 2.0 x 4.0 x 5.1	*	.08	.06	.045
544868	SR205E104MAA	JVP	.1μF	50	4.0 x 2.6 x 3.8 x 2.5	*	.10	.07	.05
25525	MD.1R	JVP	.1μF	50	3.4 x 2.2 x 3.6 x 5.1	*	.11	.08	.06
25540	MD.22	◆	.22μF	50	6.0 x 2.0 x 4.5 x 5.1	*	.15	.12	.09
25541	MD.22+	JVP	.22μF	50	6.0 x 2.0 x 4.5 x 2.5	*	.19	.15	.12
138237	MD.33	◆	.33μF	50	6.0 x 2.0 x 8.0 x 5.1	*	.14	.11	.08
544930	SR215E334MAA	JVP	.33μF	50	3.8 x 2.5 x 3.8 x 5.1	*	.12	.09	.07
25558	MD.47	◆	.47μF	50	4.5 x 2.5 x 4.5 x 5.1	*	.17	.14	.11
81509	MD1	◆	1μF	50	6.0 x 3.0 x 7.0 x 5.1	.35	.29	.22	.17
544956	SR305E105MAA	JVP	1μF	50	3.8 x 2.5 x 3.8 x 5.1	.39	.32	.25	.19

Note: Above case sizes may have ± tolerances

\* Capacitor dimensions and styles may vary

\* AVX Radial Ceramic Capacitors — Enter Web Code XDE

\* Prosperity Radial Ceramic Capacitors — Enter Web Code CMC

See page 151 for LCR Meters that measure resistance, capacitance and inductance.

### 8mm (.315")

JAMECO EXCLUSIVE

\* Web Code: PAT



### Ceramic Trimmer Capacitors

- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: 0.01 (at 1kHz)
- Dielectric strength: 150% of rated volt. for 5 sec.

\* Web Code: RAD

\* Order in multiples of 10

Part No.	Product No.	Value (μF)	Volt. (V)	Size (mm)* L x T x H x L.S.	Pricing			
					1	10	100	1000
26833	MY.001	.001	100	7.0 x 3.0 x 7.0 x 5.1	*	\$0.10	\$0.07	\$0.05
1946164	MY.0068	.0068	100	5.5 x 2.5 x 10.0 x 5.1	*	.06	.04	.03
26884	MY.01	.01	100	6.0 x 3.0 x 7.0 x 5.1	*	.15	.12	.09
207837	MY.018/50	.018	50	6.1 x 2.6 x 11.3 x 5.1	*	.05	.03	.02
26905	MY.022	.022	100	6.0 x 3.0 x 10.0 x 5.1	*	.15	.12	.09
26921	MY.033	.033	100	8.0 x 4.0 x 11.0 x 16.1	*	.15	.12	.09
26930	MY.047	.047	100	8.0 x 4.0 x 12.0 x 5.1	*	.19	.15	.12
1946172	MY.068	.068	100	8.6 x 4.0 x 11.0 x 7.6	*	.15	.12	.10
135562	MY.1/50	.1	50	14.0 x 6.0 x 12.0 x 5.1	*	.17	.14	.11
26956	MY.1	.1	100	12.5 x 5.0 x 9.5 x 7.6	*	.19	.15	.12
93921	MY.1/250	.1	250	12.5 x 5.5 x 10 x 10.1	.29	.22	.17	.14
26972	MY.22	.22	100	12.5 x 5.5 x 10 x 7.6	*	.19	.15	.12
1946181	MY.22SM	.22	100	12.5 x 5.0 x 8.5 x 10.1	*	.15	.12	.10
93964	MY.33/250	.33	250	18.0 x 7.0 x 12.5 x 15.2	.32	.25	.19	.15
26999	MY.47	.47	100	18.0 x 6.0 x 11.5 x 16.1	.45	.35	.29	.22
27001	MY1	1.0	100	18.0 x 7.5 x 14.0 x 15.2	.55	.45	.35	.29
93981	MY1/250	1.0	250	26.0 x 9.0 x 16.0 x 15.2	.65	.49	.39	.32
93999	MY2.2/250	2.2	250	26.0 x 9.0 x 16.0 x 27.9	1.25	.99	.79	.65

\* ±20% tolerance \* Capacitor dimensions and styles may vary on items with various manufacturers

More SMT Capacitors Available Online

Enter Web Code: SMT for Complete Listing!



\* JVP = Jameco ValuePro

PDC = Prosperity Dielectric Co.

◆ Manufacturer Varies

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

# Motor, Metallized & Silver Mica Capacitors

JAMECO ValuePro

## Motor Capacitors

- Operating temp.: -25°C to +85°C
- Insulation resistance: >300MΩ
- Metal or plastic shell and double welding sheet metal



### Motor Running Capacitors

Part No.	Cross Ref. No.	Value	Volt (V)	Size D x H (mm)	1	10	50
332806	MRC370V4	4μF	370	34 x 50	\$1.49	\$1.25	\$1.09
332814	MRC370V5	5μF	370	34 x 50	1.95	1.75	1.59
332822	MRC370V7R5	7.5μF	370	36 x 80	1.95	1.75	1.59
332831	MRC370V10	10μF	370	42 x 80	2.95	2.69	2.39
332865	MRC440V10	10μF	440	40 x 70	3.49	2.95	2.59

### Motor Starting Capacitors

Part No.	Cross Ref. No.	Value	Volt (V)	Size D x H (mm)	1	10	50
332697	MSC125V21	21μF	125	37 x 70	\$1.95	\$1.59	\$1.29
332777	MSC250V30	30μF	250	37 x 70	2.59	2.35	1.95
332785	MSC250V53	53μF	250	46 x 86	2.95	2.69	2.49
536585	PSU10835A*	108μF	250	46 x 86	8.49	7.95	7.49
332700	MSC125V124	124μF	125	37 x 70	1.95	1.75	1.59
332718	MSC125V161	161μF	125	37 x 70	1.95	1.79	1.59
332726	MSC125V189	189μF	125	37 x 70	2.29	2.09	1.89
332734	MSC125V216	216μF	125	37 x 86	2.59	2.39	2.09
332742	MSC125V270	270μF	125	37 x 86	2.95	2.69	2.39
332751	MSC125V590	590μF	125	46 x 111	4.95	4.75	4.49

\* Mfr. is Cornell Dubilier

## Panasonic® Metallized Film Capacitors (±5%)

### V Series – Stacked

- Operating temp. range: -40°C to 85°C
- Low dissipation factor: 1% max.

★ Web Code: TAB

Order in multiples of 10

Part No.	Mfr. Part No.	Value (μF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	Pricing		
					10	100	500
920510	ECQ-V1H104JL	.1	50	7.3 x 4 x 5 x 5	\$.15	\$.12	\$.09
920595	ECQ-V1H474JL	.47	50	7.3 x 6 x 7.3 x 5	.22	.17	.14

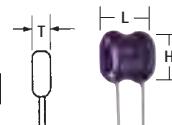


## Dipped Silver Mica Capacitors (±5%)

### Metallized Polyester Film

- Case type: DM15
- Operating temp. range: -55° to +125°C
- Tolerance: ±5%

★ Web Code: HAB



Part No.	Product No.	Value	Volt (V)	Size (mm) L x T x H*	1	10	100	1000
15991	DM100	10pF	500	11 x 4 x 9	\$.49	\$.39	\$.35	\$.29
16037	DM220	22pF	500	11 x 4 x 9	.59	.49	.39	.32
16096	DM470	47pF	500	11 x 4 x 9	.55	.45	.35	.29
16002	DM101	100pF	500	11 x 4 x 9	.65	.55	.45	.35
16088	DM331	330pF	500	11 x 4 x 9	.95	.75	.59	.49
16109	DM471	470pF	500	11 x 4 x 9	1.09	.89	.69	.55
16011	DM102	1000pF	100	11 x 4 x 9	1.35	1.15	.95	.79

\*Capacitor dimensions and styles may vary

Expanded Offering of Thousands of Prosperity SMT Capacitors at [www.Jameco.com](http://www.Jameco.com)

Passives

### SMT Capacitors

- Temperature range: -55°C to 125°C
- General purpose

Qty.	10	100	1000	4000
MA0603	\$.05	\$.03	\$.02	\$.01
MA0805	.15	.12	.07	.05
MA1206	.10	.06	.05	.04
MA1210	.05	.03	.02	.01
MA1812	.05	.03	.02	.01
RD15	.09	.07	.06	.04
RD16	.05	.04	.03	.02

### RD Series:

★ RD15 – 11 values — Web Code: ZAO
★ MA1812 – 1 value — Web Code: ZAN

★ RD16 – 1 value — Web Code: ZAP
----------------------------------

For Passive Component Testers See Page 153

## SMD Capacitors

JAMECO ValuePro

Leakage current (20°C) after 2 minutes .01CV or 3μA

Aluminum Electrolytic Capacitors

Operating Temp. Range: -55°C to +105°C

\* Order in multiples of 10

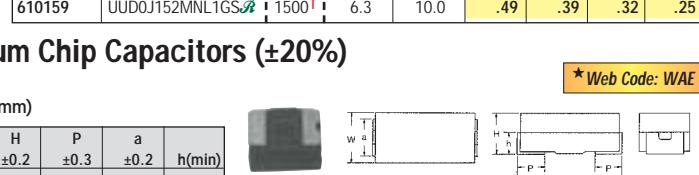
Part No.	Nichicon Cross Ref No.	Value (μF)	Voltage (V)	Dia. (mm)	Pricing		
					1	10	100
610431	UWT1H0R1MCL1GB	0.1	50	4.0	\$.09	\$.07	\$.05
610423	UWT1H010MCL2GB	1.0	50	4.0	.12	.09	.07
608631	UUD1H010MCL1GS	1.0†	50	4.0	.15	.12	.09
610634	UWT1V2R2MCL2GB	2.2	35	4.0	.09	.07	.05
608665	UUD1H2R2MCL1GS	2.2†	50	4.0	.19	.15	.12
608681	UUD1H3R3MCL1GS	3.3†	50	4.0	.15	.12	.09
608788	UUD1V4R7MCL1GS	4.7†	35	4.0	.15	.12	.09
608702	UUD1H4R7MCL1GS	4.7†	50	4.0	.19	.12	.10
115351	RV2-166V100MR*	10	16	4.0	.12	.09	.07
610108	UWT0G220MCL1GB	22	4.0	4.0	.09	.05	.04
608489	UUD1A220MCL1GS	22†	10	4.0	.15	.12	.09
610239	UWT1A220MCL1GB	22	10	5.0	.09	.07	.05
610474	UWT1H220MCL1GB	22	50	6.3	.22	.15	.13
610183	UWT0J330MCL1GB	33	6.3	4.0	.12	.09	.07
608585	UUD1E330MCL1GS	33†	25	6.3	.15	.12	.09

\*Operating temperature: -40°C to +85°C † Low impedance

Part No.	Nichicon Cross Ref No.	Value (μF)	Voltage (V)	Dia. (mm)	Pricing		
					1	10	100
610335	UWT1C470MCL1GB	47	16	6.3	\$.12	\$.09	\$.07
610386	UWT1E470MCL1GB	47	25	6.3	.29	.22	.15
608796	UUD1V680MCL1GS	68†	35	6.3	.29	.25	.15
608711	UUD1V680MNL1GS	68†	50	8.0	.39	.29	.19
610765	UWX1A101MCL1GB	100	10	6.3	\$.09	.05	.04
608462	UUD1A101MCL1GS	100†	10	6.3	.19	.15	.12
608569	UUD1E101MCL1GS	100†	25	6.3	.35	.25	.15
610301	UWT1C221MNL1GS	220	16	6.3	\$.15	.12	.09
610482	UWT1H221MNL1GS	220	50	10.0	.49	.39	.29
610378	UWT1E33MNL1GS	330	25	8.0	.29	.25	.15
608614	UDD1E471MNL1GS	470†	25	10.0	.29	.25	.17
610221	UWT0J681MNL1GS	680	6.3	8.0	.35	.29	.25
608471	UUD1A102MNL1GS	1000†	10	10.0	.39	.29	.25
192989	SE1000/16	1000	16	10.0	.39	.29	.22
610159	UUD0J152MNL1GS	1500†	6.3	10.0	.49	.39	.32



\* Order in multiples of 10



\* JVP = Jameco ValuePro   ♦ Manufacturer Varies

Resin Molded Solid Tantalum Chip Capacitors continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# SMD Molded Tantalum & Ceramic Chip Capacitors

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

JAMECO ValuePro



## Resin Molded Solid Tantalum Chip Capacitors ( $\pm 10\%$ )

★ Web Code: WAE

Case Size (Dimensions in mm)

EIA Case Code	L	W	H	P	a	h(min)
A (3216-18)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528-21)	3.5	2.8	1.9	0.8	2.2	0.7
C (6032-28)	6.0	3.2	2.6	1.3	2.2	1.0
D (7343-31)	7.3	4.3	2.9	1.3	2.4	1.0

\* Order in multiples of 10

Part No.	Value (μF)	Case	Size	*Low ESR	Pricing				
					Volt.	1	10	100	500
544999	0.1μF	A	20	*	\$10	\$0.05	\$0.04		
544964	0.1μF	A	35	*	.12	.06	.05		
544972	0.1μF	A	50	*	.12	.08	.07		
544981	1μF	A	16	*	.10	.05	.04		
545001	1μF	A	25	*	.10	.05	.04		
597290	1μF	A	35	*	.12	.10	.09		
545043	2.2μF	A	16	*	.12	.06	.05		
545051	3.3μF	A	16	*	.10	.06	.05		
545060	3.3μF	A	20	*	.15	.09	.07		

\* Order in multiples of 10

\* Order in multiples of 10

Part No.	Value (μF)	Case	Size	*Low ESR	Pricing				
					Volt.	1	10	100	500
597329	* 4.7μF	A	10	*	\$17	\$1.15	\$1.12		
545086	6.8μF	A	10	*	.15	.09	.07		
545027	10μF	A	6.3	*	.12	.05	.04		
597311	* 10μF	A	6.3	*	.17	.15	.13		
597302	10μF	A	10	*	.12	.06	.05		
545115	* 15μF	A	10	*	.17	.15	.12		
545131	1μF	B	35	*	.15	.10	.08		
545158	2.2μF	B	35	*	.15	.09	.08		
545174	4.7μF	B	16	*	.15	.07	.05		
545140	10μF	B	16	*	.19	.10	.07		
597337	* 10μF	B	16	*	.19	.15	.13		
545166	22μF	B	16	*	.19	.13	.11		
545203	47μF	B	10	.35	.25	.22	.19		
545254	2.2μF	C	35	*	.15	.09	.07		
545262	3.3μF	C	35	*	.19	.16	.13		
545220	10μF	C	20	*	.15	.12	.10		
545289	10μF	C	25	*	.16	.14	.12		
545238	10μF	C	35	.45	.35	.25	.22		
545300	22μF	C	16	*	.19	.15	.12		

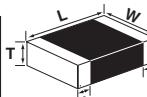
★ Web Code: WAE

## Multilayer Ceramic Chip Capacitors

★ Web Code: MCD

SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210	1812
L	1.0	1.6	2.0	3.2	3.2	4.5
W	0.5	0.81	1.25	1.6	2.5	3.2
T	1.02	1.02	0.065	1.55	1.02	1.52
t	0.25	0.35	0.25	0.5	0.5	0.61



\* Order in multiples of 10

Part No.	*Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
646135	◆	0402	47pF	50	5	NPO	*	.05	.02	.01
646178	◆	0402	100pF	50	5	NPO	*	.05	.02	.01
543742	JVP	0402	2200pF	50	10	NPO	*	.06	.04	.02
543777	JVP	0402	0.1μF	16	+80/-20	Y5V	*	.09	.04	.03
646910	◆	0603	100pF	50	5	NPO	*	.05	.04	.03
544008	JVP	0603	330pF	50	5	NPO	*	.08	.04	.03
649483	◆	0603	1000pF	50	10	X7R	*	.05	.02	.01
649598	◆	0603	8200pF	50	10	X7R	*	.06	.04	.02
735322	AVX	0603	0.01μF	50	5	X7R	*	.08	.05	.03
1929031	AVX	0603	0.1μF	25	10	X7R	*	.12	.07	.05
649766	◆	0603	2.2μF	6.3	10	X5R	*	.15	.12	.09
649774	◆	0603	4.7μF	6.3	10	X5R	*	.19	.15	.12
650020	◆	0805	27pF	50	5	NPO	*	.05	.02	.01
736026	AVX	0805	30pF	50	5	NPO	*	.07	.04	.03
650097	◆	0805	100pF	50	5	NPO	*	.05	.02	.01
650126	◆	0805	180pF	50	5	NPO	*	.05	.02	.01
1566882	◆	0805	220pF	100	5	NPO	*	.05	.02	.01
650193	◆	0805	680pF	50	5	NPO	*	.06	.04	.02
544323	JVP	0805	1000pF	50	10	X7R	*	.05	.02	.01
2079541	PDC	0805	1200pF	50	5	NPO	*	.15	.12	.07
544278	◆	0805	2200pF	50	5	NPO	*	.15	.12	.09
544331	JVP	0805	0.01μF	50	10	X7R	*	.05	.02	.01
87372	JVP	0805	0.1μF	25	10	X7R	*	.05	.02	.01
87177	JVP	0805	0.1μF	50	20	Z5U	*	.05	.02	.01
650484	◆	0805	0.33μF	25	10	X5R	*	.15	.12	.09
650492	◆	0805	0.47μF	25	10	X5R	*	.06	.05	.04
650687	◆	0805	1.0μF	16	+80/-20	Y5V	*	.12	.07	.05
650505	◆	0805	1.0μF	25	10	X5R	*	.15	.12	.09
544479	◆	0805	2.2μF	10	10	X5R	*	.15	.12	.09

\* Order in multiples of 10

Part No.	*Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
650521	◆	0805	2.2pF	16	10	X5R	*	.15	.12	.09
650556	◆	0805	3.3pF	10	10	X5R	*	.15	.12	.07
544420	JVP	0805	4.7pF	6.3	10	X5R	*	.14	.11	.09
650581	◆	0805	10pF	6.3	10	X5R	*	.13	.10	.08
1858797	MUR	0805	10pF	16	+80/-20	Y5V	*	.12	.07	.05
544497	JVP	1206	10pF	100	5	NPO	*	.12	.07	.05
544526	JVP	1206	15pF	100	5	NPO	*	.12	.07	.05
544534	JVP	1206	22pF	100	5	NPO	*	.12	.07	.05
544542	JVP	1206	33pF	100	5	NPO	*	.12	.07	.05
544569	JVP	1206	47pF	100	5	NPO	*	.15	.12	.09
650880	◆	1206	68pF	50	5	NPO	*	.12	.07	.05
544500	JVP	1206	100pF	100	5	NPO	*	.06	.04	.02
544551	JVP	1206	330pF	100	5	NPO	*	.10	.07	.05
544577	JVP	1206	680pF	100	5	NPO	*	.15	.12	.09
2079795	PDC	1206	1000pF	50	±20	NPO	*	.10	.06	.05
544681	JVP	1206	1000pF	50	5	NPO	*	.12	.07	.05
544518	JVP	1206	1000pF	100	5	NPO	*	.15	.12	.09
651057	◆	1206	1800pF	50	5	NPO	*	.15	.12	.09
544690	JVP	1206	2200pF	50	5	NPO	*	.15	.12	.09
651209	◆	1206	4700pF	50	10	X7R	*	.09	.06	.04
651102	◆	1206	4700pF	50	5	NPO	*	.15	.12	.09
651111	◆	1206	5600pF	50	5	NPO	*	.15	.12	.09
651129	◆	1206	0.01μF	25	5	NPO	*	.15	.12	.09
87329	◆	1206	0.01μF	50	10	X7R	*	.05	.02	.01
87388	◆	1206	0.1μF	50	10	X7R	*	.09	.07	.06
651541	◆	1206	0.1μF	50	+80/-20	Y5V	*	.12	.07	.05
544606	JVP	1206	0.1μF	100	10	X7R	*	.12	.07	.05
544711	JVP	1206	0.22μF	50	10	X7R	*	.12	.07	.05
651399	◆	1206	0.27μF	50	10	X7R	*	.12	.09	.07
544729	JVP	1206	0.33μF	50	10	X7R	*	.15	.12	.07
544673	JVP	1206	0.47μF	25	10	X7R	*	.15	.12	.07
651410	◆	1206	0.47μF	50	10	X7R	*	.15	.12	.09
87222	JVP	1206	0.47μF	50	20	Z5U	.29	.22	.17	.14

Multilayer Ceramic Chip Capacitors continued on next page

# SMD Ceramic Chip Capacitors & Resistor Networks

## Multilayer Ceramic Chip Capacitors (Continued)

\* Order in multiples of 10

Part No.	*Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
651428	◆	1206	1.0µF	25	10	X7R	*	\$.15	\$.12	\$.07
651479	◆	1206	2.2µF	16	10	X5R	*	.13	.10	.07
651452	◆	1206	2.2µF	25	10	X5R	*	.15	.12	.09
651508	◆	1206	4.7µF	10	10	X5R	*	.19	.15	.12
651487	◆	1206	4.7µF	16	10	X5R	*	.15	.12	.09
544745	JVP	1206	4.7µF	+80/-20	Y5V		*	.15	.12	.09
651461	◆	1206	4.7µF	25	10	X5R	*	.19	.15	.12
651532	◆	1206	10µF	6.3	10	X5R	*	.19	.17	.15
651516	◆	1206	10µF	10	10	X5R	*	.19	.17	.15
651495	◆	1206	10µF	16	10	X5R	.35	.29	.25	.19
651524	◆	1206	22µF	6.3	10	X5R	.49	.39	.35	.29
651612	◆	1210	0.1µF	50	10	X7R	*	.15	.12	.09
544761	JVP	1210	0.1µF	100	10	X7R	*	.15	.12	.09
544788	JVP	1210	0.22µF	50	10	X7R	*	.15	.12	.09
651647	◆	1210	0.33µF	50	10	X7R	*	.19	.15	.12
651655	◆	1210	0.47µF	50	10	X7R	*	.19	.15	.12

\* Web Code: MCD

\* Order in multiples of 10

Part No.	*Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
651663	◆	1210	1.0µF	50	10	X7R	*	\$.19	\$.17	\$.15
651671	◆	1210	2.2µF	25	10	X7R	.39	.32	.25	.19
651680	◆	1210	4.7µF	16	10	X7R	.49	.39	.32	.25
651701	◆	1210	4.7µF	25	10	X7R	.35	.29	.25	.19
651698	◆	1210	10µF	10	10	X7R	.35	.29	.25	.19
651786	◆	1210	10µF	10	10	X5R	.59	.45	.39	.35
651735	◆	1210	10µF	16	10	X5R	.35	.29	.25	.19
651719	◆	1210	10µF	25	10	X5R	.49	.39	.35	.29
651751	◆	1210	22µF	6.3	10	X5R	.59	.45	.39	.35
651794	◆	1210	22µF	10	10	X5R	.79	.65	.49	.42
651743	◆	1210	22µF	16	10	X5R	.69	.55	.45	.39
651760	◆	1210	47µF	6.3	10	X5R	1.29	1.09	.89	.79
651778	◆	1210	100µF	6.3	20	X5R	1.75	1.49	1.25	1.09
651831	◆	1812	1µF	50	10	X5R	*	.19	.17	.15
651858	◆	1812	22µF	10	10	X5R	.95	.75	.59	.45

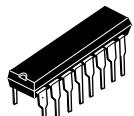
\* Web Code: GAP

Passives

## Dual-In-Line "DIP" Resistor Networks ±2% (G)

### 16-Pin (140mW/Resistor) ±2%

- Max. operating voltage: 100V
- Temp. coefficient: ±100ppm/°C
- Operating temp.: -55°C to +125°C
- Insulation res.: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401



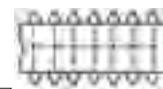
Isolated

Pricing per each			
1	10	100	1000
\$ .55	\$ .45	\$ .35	\$ .29

Part No. Ohms Part No. Ohms

164005	33	108581	470
108556	100	108599	1.0k
856095	120	108610	4.7k
108564	220	108628	10k
108572	330	108644	100k

Bussed



Order in multiples of 10

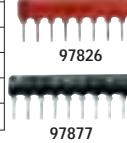
Pricing per each			
10	100	1000	
\$ .45	\$ .35	\$ .29	

\* Order in multiples of 10

Pricing per each

6-pin 2%	1	10	100	500
207742	*	\$ .15	\$ .12	\$ .09
207743	*	.15	.12	.09
207744	*	.15	.12	.09
207745	*	.17	.15	.12
207746	*	.17	.15	.12

YAGEO



## 10-Pin Bussed (±2%)

### 8-Pin Bussed (±2%)

Part No.	Ohms						
267354	10	276074	820	97826	10k	276365	120k
275872	27	276083	1k	276234	12k	276373	150k
275881	33	276091	1.2k	276242	15k	276381	180k
275899	39	276104	1.5k	276251	18k	276390	220k
275901	47	276111	1.8k	2077941	20k	276402	270k
2077896	56	207797	2.2k	276277	22k	276411	330k
275936	68	207798	2.7k	276285	27k	276429	390k
275944	82	276154	3.3k	276293	33k	276437	470k
275987	180	276163	3.9k	276306	39k	276445	560k
275995	220	276172	4.7k	276315	47k	276453	680k
276007	270	276189	5.1k	276331	68k	276461	820k
97762	470	276197	5.6k	276349	82k	276470	1M
276040	510	276200	6.8k	276358	100k		

### 8-Pin Isolated (±2%)

Part No.	Ohms						
2078021	22	2078039	47	2078055	75	2078071	1.5k
2077984	27	2078047	68	2078135	270	2099956	15k

### 8-Pin Isolated (±5%)

Part No.	Ohms						
2078119	33	2078127	47	2078098	560	2078012	4.7k
2078101	39	2077992	510	2078004	2.2k	2099964	680

## 5-Watt Wirewound Resistors (5%)

### Single Value Resistor Pricing: 5-Watt Wirewound Resistors (±5%)

To order: Use part no. adjacent to Ω in chart below. Values may not be combined for quantity price breaks.

#### Pricing Per Resistor

Specify Part No. & Resistor Value (see Standard Resistor Values Chart below)	1	10	100	500	2500
	\$ .39	\$ .32	\$ .25	\$ .19	\$ .15

Part No.	Ohms										
659956	0.10	660130	1.0	660295	5.0	660480	27	660851	820	661036	10k
659964	0.15	660201	2.0	660375	10	660551	50	660877	1.0k		
660050	0.5	660279	4.0	660447	20	660623	100	661010	4.7k		

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Carbon Film Resistors

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## 1/8-Watt Carbon Film Resistor ( $\pm 5\%$ ) Assortment

Part No.	Cross Ref.	Values	Description (see chart, right)	1	5
108303	ASST1830R	X #	10 ea. of 24 values marked by X and 50 ea. of 6 values marked below by # (540 pcs.)	\$10.95	\$8.95
108329	CAB182R	—	1/8 watt resistor component cabinet kit 30 values (540 pcs.) see page 42	25.95	22.95

1/8-Watt Resistors sold in bags of 100

Specify Part No. & Resistor Value	1	10	50	250
(see Standard Resistor Values Chart below)	\$4.00	\$2.00	\$1.00	\$.75

## 1/8-Watt Resistor Assortment Values (Ohms)

10 X	150 X	330 X	680 X	2.0k X	3.3k X	5.6k X	15k X	33k X	470k X
47 X	220 #	390 X	1.0k #	2.2k X	4.7k #	6.8k X	22k X	47k X	1.0M X
100 #	270 X	470 X	1.5k X	2.7k X	5.1k X	10k #	27k X	100k #	10M X

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.
107916	5.1k	108097	1849591	10k	108214	100k
1849639	6.8k	108118	108185	33k		

Blue Part No. = Limited Quantity Available

Passives



\*Web Code: RCN

## Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors ( $\pm 5\%$ )

To order: Use part number adjacent to ohms in chart below.

Values may not be combined for quantity price breaks.

Pricing per Resistor (Please order in increments of 100)			
Specify Part No. & Resistor Value	100	1000	5000
(see Standard Resistor Values Chart below)	\$.02	\$.011	\$.009
			\$.007

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms				
690216	R 2.2	690427	R 15	690620	Ax	R 100	690822	A●	R 680	691024	Ax	R 4.7k	691227	A●			
690224	R 2.4	690435	R 16	690638	R 110	690831	R 750	691032	A●	R 5.1k	691235	R 36k	691438	R 240k	691631		
690232	R 2.7	690443	R 18	690646	R 120	690849	R 820	691041	A●	R 5.6k	691243	R 39k	691446	R 270k	691892		
690241	R 3.0	690451	R 20	690654	R 130	690857	R 910	691059	A●	R 6.2k	691251	R 43k	691454	R 300k	691649		
690259	R 3.3	690460	R 22	690662	A●	R 150	690865	Ax	R 1.0k	691067	R 6.8k	691260	A●	R 330k	691657		
690267	R 3.6	690478	R 24	690671	R 160	690873	R 1.1k	691075	R 7.5k	691278	R 51k	691471	R 360k	691665	R 2.2M		
690275	R 3.9	690486	R 27	690689	R 180	690881	R 1.2k	691083	R 8.2k	691286	R 56k	691489	R 390k	691673	R 2.7M		
690283	R 4.3	690494	R 30	690697	R 200	690890	R 1.3k	691091	R 9.1k	691294	R 62k	691497	R 430k	691681	R 3.0M		
690291	R 4.7	690507	R 33	690700	Ax	R 220	690902	A●	R 1.5k	691104	Ax	R 10k	691307	R 68k	691500	A●	
690304	R 5.1	690515	R 36	690718	R 240	690911	R 1.6k	691112	R 11k	691315	R 75k	691518	R 510k	691702	R 3.6M		
690312	R 5.6	690523	R 39	690726	A●	R 270	690929	R 1.8k	691121	R 12k	691323	R 82k	691526	R 560k	691711	R 3.9M	
690321	R 6.2	690531	R 43	690734	R 300	690937	A●	R 2.0k	691139	R 13k	691331	R 91k	691534	R 620k	691737	R 4.7M	
690339	R 6.8	690540	A●	R 47	690742	A●	R 330	690945	A●	R 2.2k	691147	A●	R 100k	691542	R 680k	691745	R 5.1M
690347	R 7.5	690558	R 51	690751	R 360	690953	R 2.4k	691155	R 16k	691358	R 110k	691551	R 750k	691753	R 5.6M		
690363	R 8.2	690566	R 56	690769	●	R 390	690961	A●	R 2.7k	691163	R 18k	691366	R 120k	691569	R 820k	691761	R 6.2M
690371	R 9.1	690574	R 62	690777	R 430	690970	R 3.0k	691171	●	R 20k	691374	R 130k	691577	R 910k	691770	R 6.8M	
690380	A●	R 10	690582	R 68	690785	A●	R 470	690988	A●	R 3.3k	691180	A●	R 22k	691382	R 150k	691585	A●
690398	R 11	690591	R 75	690793	R 510	690996	R 3.6k	691198	R 24k	691391	R 160k	691593	R 1.1M	691796	R 8.2M		
690401	R 12	690603	R 82	690806	R 560	691008	R 3.9k	691201	R 27k	691403	R 180k	691606	R 1.2M	691809	R 9.1M		
690419	R 13	690611	R 91	690814	R 620	691016	R 4.3k	691219	R 30k	691411	R 200k	691614	R 1.3M	691817	A●		

## 1/2-Watt Carbon Film Resistors ( $\pm 5\%$ )



\*Web Code: SCH

## Assortment Pricing: 1/2-Watt Carbon Film Resistors ( $\pm 5\%$ )

Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	1	5
107853	ASST1230R	X #	10 ea. of 24 values marked by X and 50 ea. of 6 values marked by # (540 pcs.)	\$15.95	\$14.25
107845	ASST1227R	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	36.95	32.95
107837	ASST1270R	N/A	5 ea. of 70 values (every other value from 10Ω - 5.6MΩ) (350 pcs.) (see chart below)	9.95	8.95
107879	CAB12R	N/A	1/2-watt resistor component cabinet kit – 30 values (540 pcs.), see page 42	29.95	26.95

## Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors ( $\pm 5\%$ )

To order: Use part number adjacent to ohms in chart below.

Values may not be combined for quantity price breaks.

Pricing Per Resistor (Please order in increments of 100)			
Specify Part No. & Resistor Value	100	1000	5000
(see Standard Resistor Values Chart below)	\$.03	\$.02	\$.014
			\$.01

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms						
659577	R 1.0	659892	R 22	661263	✓#	R 100	661431	R 510	661589	✓X	R 2.2k	661773	R 12k	661976	R 82k	662194	R 680k		
659606	R 1.3	661124	R 27	661280	R 120	661440	R 560	661600	✓X	R 2.7k	661790	✓X	R 15k	661992	✓#	R 100k	662215	R 820k	
659614	R 1.5	661141	R 33	661301	✓X	R 150	661466	✓X	R 680	661618	R 3.0k	661811	R 18k	662039	R 150k	662231	✓X	R 1.0M	
659631	R 1.8	661167	R 39	661327	R 180	661474	R 750	661634	✓X	R 3.3k	661829	R 20k	662071	R 220k	662240	R 1.1M			
659657	R 2.2	661183	✓X	R 47	661335	R 200	661482	R 820	661642	✓X	R 3.6k	661837	✓X	R 22k	662098	R 270k	662291	R 1.8M	
659673	R 2.7	661191	R 51	661343	✓#	R 220	661503	✓#	R 1.0k	661651	R 3.9k	661845	R 24k	662119	R 330k	662311	R 2.2M		
659737	R 4.7	661204	R 56	661351	R 240	661520	R 1.2k	661677	✓#	R 4.7k	661853	X	R 27k	662135	R 390k	662397	R 4.7M		
659809	R 9.1	661212	R 62	661360	✓X	R 270	661538	R 1.3k	661685	✓X	R 5.1k	661870	✓X	R 33k	662151	✓X	R 470k	662477	✓X
659817	✓X	R 10	661221	R 68	661378	R 300	661546	✓X	R 1.5k	661693	✓X	R 5.6k	661896	R 39k					
659833	R 12	661239	R 75	661386	✓X	R 330	661554	R 1.6k	661714	X	R 6.8k	661917	✓X	R 47k					
659850	R 15	661247	R 82	661407	X	R 390	661562	R 1.8k	661731	X	R 8.2k	661933	R 56k						
659884	R 20	661255	R 91	661423	✓X	R 470	661571	✓X	R 2.0k	661757	✓#	R 10k	661950	R 68k					

Blue Part No. = Limited Quantity Available

★ More 1/2W Resistors

Web Code: SCH

\* RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## 0805 (1/8W) Chip Resistor Assortment ( $\pm 5\%$ )

144 Values, 50 pcs. each



Resistance Value Chart:

- 7,200 pieces total
- Max. overload volt.: 200V
- Case size (2 cases): 10.5'L x 6.7'W x 1.7'T
- Operating temp.: 70°C
- Weight: 1.9 lbs.
- Size (mm): 2.0L x 1.25W x 0.5Thick

Includes: Case with labels

Part No.	Product No.	1	5	25
172806	16-500.....	\$74.95	\$64.95	\$54.95

172806 16-500..... \$74.95 \$64.95 \$54.95

1.2	10	75	430	2.0k	10k	51k	270k	2.2M
1.6	16	85	470	2.2k	11k	56k	300k	2.4M
2.2	18	91	510	2.4k	12k	62k	360k	2.7M
2.4	20	110	560	2.7k	13k	68k	390k	3.0M
2.7	22	120	620	3.0k	15k	75k	430k	3.3M
3.0	24	130	680	3.3k	16k	82k	470k	3.6M
3.3	27	150	750	3.6k	18k	91k	510k	3.9M
4.3	30	160	820	3.9k	20k	100k	560k	4.3M
4.7	33	180	910	4.3k	22k	110k	620k	4.7M
5.1	39	200	1.0k	4.7k	24k	120k	750k	5.1M
5.6	43	220	1.1k	5.6k	27k	150k	820k	5.6M
6.2	47	240	1.2k	6.2k	30k	160k	910k	6.2M
6.8	51	270	1.3k	6.8k	33k	180k	1.0M	7.5M
7.5	56	300	1.5k	7.5k	36k	200k	1.6M	8.2M
8.2	62	360	1.6k	8.2k	39k	220k	1.8M	9.1M
9.1	68	390	1.8k	9.1k	43k	240k	2.0M	10M

172806 16-500..... \$74.95 \$64.95 \$54.95

**YAGEO**

1/4W 1% Metal Film Resistors

Qty.	10	100	1000	5000
MF-25	\$0.05	\$0.02	\$0.015	\$0.01

MFR Series - 90 Values ★ Web Code: MFR

1/16W 5% Chip Resistor Arrays



- Op. temp.: +55°C to 155°C
- 4-chip resistors

TC164 Series - 2 Values ★ Web Code: ZAH

YC164 Series - 4 Values ★ Web Code: ZAG

**Series 766 SMT Chip Resistor Array**

- ±2% or 0.5Ω whichever is greater
- Dielectric strength: 100VAC
- Max. operating volt.: 50V
- Power: 1W @ 70°C



Part No.	Product No.	1	10	100
1179284	745C101103JP	\$0.59	\$0.55	\$0.45

1179284 745C101103JP ..... \$0.59 \$0.55 \$0.45

**a**  
ALPHA

- Rated voltage: 200V
- Body diameter: 0.63"
- Shaft diameter: 0.250"
- Insulation resistance: >100MΩ @ 500VDC



286206 286598

**1/8-Watt (±20%)**

- Rotational angle: 300° (±5°)
- Rotation life: 15k cycles

Qty.	1	10	100	500
Price	\$1.39	\$1.19	\$1.05	\$0.89

Part No. Manufacturer Part No. Shaft Length Ohms

286193 RV16AF-10-20R1-B53 0.531" 5k

286206 RV16AF-10-20R1-B14 0.531" 10k

286214 RV16AF-10-20R1-B54 0.531" 50k

286222 RV16AF-10-20R1-B55 0.531" 500k

**1/8-Watt with SPST Switch (±20%)**

- Withstanding voltage: 500VAC for 1 min.
- Switch rating: 12VDC/1A

Qty.	1	10	100	500
Price	\$2.15	\$1.95	\$1.75	\$1.59

Part No. Manufacturer Part No. Shaft Length Ohms

286598 RV16A03F-10-15R1-B1K 0.335" 1k

286620 RV16A03F-10-15R1-B10K 0.335" 10k

**1/5-Watt with SPST Switch (±20%)**

- Rotational angle: 270° (±5°)
- Rotation life: 100k cycles

Qty.	1	10	100	500
Price	\$1.95	\$1.75	\$1.59	\$1.45

Part No. Manufacturer Part No. Shaft Length Ohms

286767 RV16C-40-16F1-B5K 0.374" 5k

286791 RV16C-40-16F1-B500K 0.374" 500k

**16mm Linear Taper Potentiometers (±20%)**

## 1206 (1/4W) Chip Resistor Assortment ( $\pm 1\%$ )

56 Values, 200 pcs. each; 11,200 pcs. Total

- Maximum working voltage: 200V
- Operating temp.: 70°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H
- Packaged 200 pc. strip

Part No. Cross Ref. No.

156882 SMR1206SB

..... \$94.95 \$84.95 \$76.95



Value Chart (Ohms)
10 121 1.5k 20k 243k
12.1 150 2k 24.3k 301k
15 200 2.43k 30.1k 392k
20 243 3.01k 39.2k 49.9k
24.3 301 3.92k 49.9k 619k
30.1 392 4.99k 61.9k 75k
39.2 499 6.19k 75.9k 909k
49.9 619 7.5k 90.9k 1M
61.9 750 9.09k 100k 121k
75 909 10k 121k 150k
90.9 1k 12.1k 15k 200k
100 1.21k 15k 200k

156882 SMR1206SB ..... \$94.95 \$84.95 \$76.95

# Linear Taper, Wirewound & Cermet Potentiometers

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN



## 1/2-Watt 24mm Linear Taper with SPST Switch ( $\pm 20\%$ )

- Shaft diameter: 0.25"
- Maximum voltage: 500V
- Terminal type: solder lugs
- Switch rating: 125VAC, 1A
- Rotational angle: 300° ( $\pm 5\%$ )



\* Web Code: KBR

Qty.	1	10	100	500
Price	\$1.95	\$1.75	\$1.49	\$1.35

Passives

Part No.	Manufacturer Part No.	Shaft Length	Ohms
263768	RV24A01F-10-15R1-B13R	0.335"	1k
263792	RV24A01F-10-15R1-B14R	0.335"	10k
263813	RV24A01F-10-15R1-B54R	0.335"	50k
263822	RV24A01F-10-15R1-B100KR	0.335"	100k
263848	RV24A01F-10-15R1-B55R	0.335"	500k

## 2 & 5-Watt Linear Taper Wirewound ( $\pm 20\%$ )

- Temp. range: -10°C to +70°C
- Non-rotational key



Includes: Mounting hardware

123960

2-Watt ( $\pm 20\%$ ) • Length: 0.825"

\* Web Code: WAR

• Shaft diameter: 0.25"

• Mounting hole: 0.375" • Base length: 0.25"

Part No.	Cross Ref. No.	Ohms	1	10	100	500
123960	PT1K	1k	\$3.95	\$3.49	\$3.09	\$2.69

5-Watt ( $\pm 20\%$ )

- Shaft length/diameter: 0.67"/0.23" (6mm)
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1"



Part No.	Cross Ref. No.	Ohms	1	10	100	500
140514	PW5B100R	100	\$2.75	\$2.49	\$2.25	\$1.75

## Bourns® 2-Watt 10-Turn Wirewound ( $\pm 5\%$ )

\* Web Code: JBE

- Insulation resist.: (500VDC) 1000MΩ min.
- Absolute min. resist.: 1Ω or 0.1% max.
- Operating temp. range: +1°C to +125°C

183548

3540S-1 Series: 2W @ 70°C; metal

3590S-1 Series: 2W @ 40°C; plastic

3540S-1 Series: 2W @ 40°C; metal

Part No. Mfr. Part No. Ohms 1 10 50

183548	3540S-1-502L	5k	\$26.95	\$23.95	\$21.95
855818	3590S-2-502L	5k	\$12.95	\$11.95	\$10.95
183521	3540S-1-103	10k	\$19.95	\$18.95	\$17.95
771121	3590S-1-103L	10k	\$12.95	\$11.95	\$10.95
771155	3590S-2-103L	10k	\$12.95	\$11.95	\$10.95
771139	3590S-1-104L	100k	\$16.95	\$15.49	\$13.95

## 2-Watt 10-Turn Linear Taper ( $\pm 5\%$ )

\* Web Code: JBE

- Absolute min. resist.: 1Ω or 0.1% max.
- Operating temp. range: +1°C to +125°C

855818

3540S-1 Series: 2W @ 70°C; metal

Part No. Cross Ref. No. Ohms 1 10 50

2111880	3540S-1-502R	5k	\$9.95	\$9.49	\$8.95
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## Bourns® 1/4-Watt, 4mm Square SMD, Trim Potentiometers ( $\pm 10\%$ )

### 3314 Series Top Adjustment

- Adjustment angle: 210° • Straight slot
- End resistance: 1% or 2Ω max.
- Power rating: 0.25W @ 70°C

854330

Part No. Mfr. Part No. Ohms 1 10 100

854330	3314J-1-502E	5k	\$0.75	\$0.69	\$0.65
854284	3314G-1-103E	10k	\$0.75	\$0.69	\$0.65



ALPHA

• Rotational angle: 300° ( $\pm 5\%$ )

• Max. volt.: 500V

• Withstanding voltage for 1 minute: 500VAC

• Shaft Dia.: 0.25"

• Shaft Length (L): 0.335"

• Ohms: 1k, 10k, 50k, 100k, 500k

• Web Code: NBO

255477

264373

255611

255600

264373

264382

264400

264402

264429

264437

264445

264462

255611

255629

255662

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## 1/2-Watt, 1/4" Square, Single-Turn Cermet Potentiometers ( $\pm 10\%$ )

- Insulation resis.: 500VDC 1000M $\Omega$  min.
  - Contact res.: 1% or 3 $\Omega$  • Linear taper
  - Rotation life: 200 cycles
  - Absolute min. res.: 1% or 2 $\Omega$
  - Terminals: solderable pins
  - Top adjustment: 240° nominal
  - Wipe positioning: 50% nominal
- Check cross ref. chart below



\* Web Code: UDF

Qty.	1	10	100	500
Price	\$ .75	\$ .65	\$ .55	\$ .45

## 3362H Series (Top Adjustment Sealed)

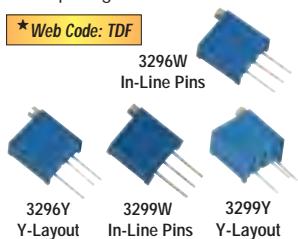
Part No.	Cross Ref. No.	Ohms
770371	3362H-103	10k

## 1/2-Watt, 3/8" Square, Multi-Turn Trim Top Adjustment ( $\pm 10\%$ ) Potentiometers

### Bourns 3296 and 3299 Series Equivalents

- Resistance tolerance:  $\pm 10\%$  • 25 turns nominal
- Insulation resistance: (500VDC) 1,000M $\Omega$  min.
- Absolute min. resistance: 1% or 2 $\Omega$  max.
- Contact resis.: 1% or 3 $\Omega$
- Power rating: 0.5W @ 70°C (300V max.)
- Temp range: -55°C to 150°C

\* Web Code: TDF



Price	3296W	3296Y	3299W	3299Y
1 pc.	\$ 1.95	\$ 1.49	\$ 1.75	\$ 1.75
10 pcs.	1.75	1.35	1.49	1.35
100 pcs.	1.49	1.19	1.35	1.19
500 pcs.	1.35	—	1.19	—

Cross Ref. Chart				
Value ( $\Omega$ )	3296W Part No.	3296Y Part No.	3299W Part No.	3299Y Part No.
10 $\Omega$	—	—	241058 +	240872
20 $\Omega$	—	—	241066 +	240881
50 $\Omega$	—	240717	—	240531
100 $\Omega$	853530 R	240725 +	241083 R	—
200 $\Omega$	—	240734 R	241091	—
500 $\Omega$	853759 R	240742 R	241104 R	240928
1k $\Omega$	853556 R	240750 +	241111 +	191396
2k $\Omega$	853652 R	240769 R	241121 R	240944
5k $\Omega$	853775 R	240777 R	241139 R	191426 R
10k $\Omega$	853572 R	240427 R	241146 +	240602
20k $\Omega$	853679 R	240435 R	238633	—
25k $\Omega$	—	240806 R	241162 +	240629
50k $\Omega$	853791 R	240813 +	—	240637
100k $\Omega$	853599 R	240470 R	241189 +	191409 +
200k $\Omega$	853695 R	—	854161 R	—
250k $\Omega$	—	240830 +	241197	241016 R
500k $\Omega$	853812 R	—	238676	—
1M $\Omega$	853610 R	240856	241219 R	—
2M $\Omega$	—	240864	241227 R	—

### JAMECO ValuePro



Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8 Fig. 9 Fig. 10 Fig. 11 Fig. 12 Fig. 13 Fig. 14 Fig. 15 Fig. 16 Fig. 17 Fig. 18

Part No.	Product No.	Body	Pointer	H" x Dia."	Fig.	1	10	100
265009	JK-902B	Black	White	.60 x .95	1	\$ .79	\$ .69	\$ .59
264998	JK-902A R	Black	White	.69 x 1.31	1	.95	.79	.69
264990	JK-901D R	Black/alum	White	.47 x .78	2	.89	.75	.65
264955	JK-901C R	Black/alum	White	.61 x 1.06	2	.79	.69	.59
264946	JK-901B	Black/alum	White	.64 x 1.29	2	.95	.85	.75
264920	JK-901A	Black/alum	White	.79 x 1.77	2	1.49	1.35	1.09
264892	RN-113A R	Black/alum	Numeric	.70 x 1.15	3	.95	.85	.75
264883	RN-112A R	Black/alum	Numeric	.90 x 1.46	3	.95	.85	.75
264912	RN-114A R	Black/alum	Numeric	.58 x 1.46	3	.95	.85	.75
102788	JK-903C R	Black	White	.54 x 1.25	4	.69	.59	.49
104176	JK-902C	Black	White	.49 x .75	5	.95	.85	.75
202287	CP-Z1-M-S R	Black/alum	White	.60 x .80	6	.79	.69	.59
136241	GKB-214 R	Black/alum	White	.52 x .54	7	.95	.79	.69
138393	41108-1 R	Black/alum	White	.56 x .85	7	1.19	1.05	.95
265077	JK-905C R	Black/blue	White	.58 x .57	8	.95	.79	.69
265084	JK-905D	Black/green	White	.58 x .57	8	.95	.79	.69
265051	JK-905A R	Black/red	White	.58 x .57	8	.95	.79	.69
265069	JK-905B R	Black/yellow	White	.58 x .57	8	.95	.79	.69
265033	JK-904C	Black/blue	White	.47 x .78	9	.75	.59	.49
265018	JK-904A R	Black/red	White	.47 x .78	9	.75	.59	.49
265025	JK-904B	Black/yellow	White	.47 x .78	9	.75	.59	.49

## 3362P Series (Top Adjustment)

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
191644	3362P-200	20	254002	3362P-203 R	20k
189341	3362P-500	50	254028	3362P-503 R	50k
253972	3362P-201	200	254036	3362P-104 R	100k
182810	3362P-501	500	182844	3362P-204	200k
253982	3362P-102 R	1k	254044	3362P-504 R	500k
182829	3362P-502 R	5k	254115	3362P-105	1M
182837	3362P-103 R	10k			

## 1/2-Watt, 3/8" Square, Single-Turn Trimmer Potentiometers w/ Shaft

- 3 positions • Shaft length: .32"
- .1" lead spacing

Part No.	Mfr. Part No.	1	5
2118803	18STS1K	\$ 1.15	\$ .95
2118791	18STS10K	1.15	.95

**NEW MARKED IN PINK**

## 3362W Series (Side Adjustment)

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254175	3362W-102 R	1k	254204	3362W-103 R	10k

## 1/2-Watt, 3/8" Square, Single-Turn Trimmer Potentiometers

### Bourns 3386 Series Equivalents

\* Web Code: CDG



Side Adjust. Side Adjust. (In-Line Pins) (Y-Layout)

Price	3386P	3386W	3386X
1 pc.	\$ 1.15	\$ .95	\$ .95
10 pcs.	.95	.85	.85
100 pcs.	.79	.75	.75
500 pcs.	.69	—	—

Value ( $\Omega$ )	3386P – P/N	3386W – P/N	3386X – P/N
50 $\Omega$	—	241381	—
100 $\Omega$	254297 +	—	264612
200 $\Omega$	254300 +	—	—
500 $\Omega$	43123	241412 R	264639
1k $\Omega$	42964 +	241429	—
2k $\Omega$	43043 +	241437	—
5k $\Omega$	43078	241445 +	264664 R
10k $\Omega$	43001 +	241454 R	264671 +
20k $\Omega$	43051 +	241461	264680
25k $\Omega$	254377 R	241470	264698
50k $\Omega$	43107 +	241488 R	264701 R
100k $\Omega$	43027 +	241497 R	264719
200k $\Omega$	254407 R	241509	—
250k $\Omega$	254414	241517	264735
300k $\Omega$	43060	—	—
500k $\Omega$	63212 +	—	—
1M $\Omega$	42981 +	241533	264751
2M $\Omega$	105216	—	—

### Instrumentation Knobs (1/4" Shaft Diameters)



\* Web Code: EBD EXCLUSIVE

For use with 1/4" knurled shaft

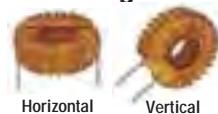
† 1/8" shaft diameter

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# High-Current Toroid & Chip Inductors

JAMECO ValuePro

- Low radiation
- Low core loss
- V = vertical mount;
- H = horizontal mount
- High current capacity
- Operating temp.: -55°C to +105°C
- DC - DC converter, EMI filter applications
- For complete specs see datasheets, [www.Jameco.com](http://www.Jameco.com)



## J.W. Miller 2100 Series Value Equivalents

Qty.	1	10	100
Price	\$ .99	\$ .75	\$ .55

Passives

Part No.	Cross Ref. No.	L (μH) @ 1kHz
371741	2101-V	10
371506	2101-H	10
371750	2102-V	12
371514	2102-H	12
371769	2103-V*	15
371522	2103-H	15
371776	2104-V	18
371531	2104-H	18
371549	2105-H	22
371792	2106-V	27
371557	2106-H	27
371805	2107-V	33
371565	2107-H	33
371813	2108-V	39
371573	2108-H	39
371581	2109-H	47
371830	2110-V	56
371848	2111-V	68
371602	2111-H	68
371856	2112-V*	100

## J.W. Miller 2200 Series Value Equivalents

Qty.	1	10	100
Price	\$ 1.15	\$ .85	\$ .65

Part No.	Cross Ref. No.	L (μH) @ 1kHz
371021	2201-H	10
371274	2202-V	12
371282	2203-V	15
371047	2203-H	15
371063	2205-H	22
371071	2206-H	27
371320	2207-V	33
371080	2207-H	33
371338	2208-V	39
371098	2208-H	39
371101	2209-H	47
371119	2210-H	56
371354	2210-V	56
371362	2211-V	68
371127	2211-H	68
371371	2212-V	100
371135	2212-H	100
371389	2213-V	120
371143	2213-H	120
371397	2214-V	150

Have A Large Volume Order That Requires Special Pricing?

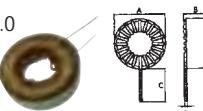
Call us at 1-800-831-4242

## High-Current Toroid Inductors

\* Web Code: KBY

### J.W. Miller 5700 Series Value Equivalents

- Size: A = 22.22mm max.; B = 11.09mm max. C = 15.0 ±1.0mm; D = 1.2±0.5mm
- High current capacity
- Low radiation
- Low core loss
- See page 132 for EMI suppression cores



Qty.	1	10	100
Price	\$ 1.49	\$ 1.19	\$ .95

Part No.	Cross Ref. No.	L (μH) @ 1kHz
208259	5701*	10
208266	5702	25
208311	5711	50
208303	5707	75

Part No.	Cross Ref. No.	L (μH) @ 1kHz
208274	5703	125
208320	5712	150
208283	5704*	275
208292	5705*	450

### J.W. Miller 2300 Series Value Equivalents

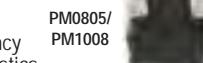
Qty.	1	10	100
Price	\$ 1.15	\$ .85	\$ .65

Part No.	Cross Ref. No.	L (μH) @ 1kHz
386901	2301-V	10
386361	2301-H	10
386935	2302-V	12
386396	2302-H	12
386951	2303-V	15
386425	2303-H	15
387006	2305-V	22
386468	2305-H	22
387022	2306-V*	27
386484	2306-H	27
386505	2307-H	33
387065	2308-V	39
386521	2308-H	39
387090	2309-V	47
386548	2309-H	47
387111	2310-V	56
386564	2310-H	56
387137	2311-V	68
386581	2311-H	68
386601	2312-H	100

\* Blue Part No. = Limited Quantity Available

## Chip Inductors (SMD)

JAMECO ValuePro



- Ceramic core, wire wound for superior reliability
- High self-resonant frequency
- Stable electrical characteristics
- Flat top surface for automated pick and place

PM0805/  
PM1008

### PM0805 Series Equivalents Order in multiples of 10

Qty.	10	100
Price	\$ .15	\$ .13

Part No.	Cross Ref. No.	L (nH)
663592	0805-2N2M*	2.2
663605	0805-3N3M*	3.3
663621	0805-8N2M*	8.2
663630	0805-12NM*	12
663648	0805-18NM*	18
663656	0805-27NM*	27

Part No.	Cross Ref. No.	L (nH)
663664	0805-33NM*	33
663672	0805-39NM*	39
663681	0805-47NM*	47
663701	0805-68NK*	68
663710	0805-82NK*	82

## Chip Inductors (SMD)

(Continued)

### PM1008 Series Equivalents Order in multiples of 10

Qty.	10	100
Price	\$ .15	\$ .13

Part No.	Cross Ref. No.	L (nH)
663736	1008-10NM*	10
663744	1008-12NM*	12
663752	1008-15NM*	15
663761	1008-18NM*	18
663779	1008-22NM*	22
663787	1008-27NM*	27
663795	1008-33NM*	33
663808	1008-39NM*	39
663816	1008-47NM*	47
663824	1008-56NK*	56
663832	1008-68NK*	68
663841	1008-82NK*	82

### PM1210 Series Equivalents Order in multiples of 10

Qty.	10	100
Price	\$ .15	\$ .13

Part No.	Cross Ref. No.	L (μH)
663971	1210-1R0J*	1.0
663980	1210-1R2J*	1.2
663998	1210-1R5J*	1.5
664000	1210-1R8J*	1.8
664018	1210-2R2J*	2.2
664026	1210-2R7J*	2.7
664034	1210-3R3J*	3.3
664042	1210-3R9J*	3.9
664051	1210-4R7J*	4.7
664069	1210-5R6J*	5.6
664077	1210-6R8J*	6.8
664085	1210-8R2J*	8.2
664093	1210-100J*	10
664106	1210-120J*	12

### PM1812 Series Equivalents Order in multiples of 10

Qty.	10	100
Price	\$ .15	\$ .13

Part No.	Cross Ref. No.	L (μH)
643014	1812-R10K*	0.10
643022	1812-R12K*	0.12
643031	1812-R15K*	0.15
643049	1812-R18K*	0.18
643057	1812-R22K*	0.22
643065	1812-R27K*	0.27
643073	1812-R33K*	0.33
643081	1812-R39K*	0.39
643090	1812-R47K*	0.47
643102	1812-R56K*	0.56
643111	1812-R68K*	0.68
643129	1812-R82K*	0.82
643153	1812-1R5J*	1.5
643161	1812-1R8J*	1.8
643188	1812-2R7J*	2.7
643196	1812-3R3J*	3.3
643209	1812-3R9J*	3.9
643217	1812-4R7J*	4.7
643225	1812-5R6J*	5.6
1864812	1812-6R85J*	6.8
643241	1812-8R2J*	8.2
643268	1812-120J*	12

\* Murata

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## TRIAD

## Inductor



- DC current: 5.5A
- DCR max.: 0.049Ω
- Inductance: 4.4mH ±10%

Part No. Mfr. Part No. 1 10  
627479 CME375-1 ..... \$5.95 \$4.95

## 1206 Chip Ferrite Beads

### For EMI Filtering



- 26Ω Impedance ±25% @ 100MHz
  - Operating temp.: -55°C to 125°C
  - DC resistance: 0.05Ω
- Order in multiples of 10
- | Part No. | Mfr. Part No. | Current | 10    | 100 | 500 |
|----------|---------------|---------|-------|-----|-----|
| 1845371  | BLM31AJ260SN1 | 500mA   | \$.15 | .09 | .07 |

## Epoxy Conformal Coated RF Chokes



- Operating temp.: -55°C to +105°C
- Dielectric strength: 500Vrms
- Color bands identification

★ Web Code: WBG

### J.W. Miller 77F Series Equivalents

- High current and self-resonant frequency
  - Overall length: 2.41"
  - Body length: 0.41"
- Order in multiples of 10

Qty.	10	100
Price	\$ .07	\$ .05
Part No.	Cross Ref. No.	L (μH)
371995	77F6R8K*	6.8
372007	77F100K*	10
372015	77F270K*	27
372023	77F330J	33
372031	77F470J	47
372040	77F820J	82

\*L (μH) ±10%

### J.W. Miller 78F Series Equivalents

- High Q and self-resonant frequency
  - Overall length: 2.28"
  - Body diameter: 0.11"
- Lead length: 1.0"
- Body length: 0.28"

Blue Part No. = Limited Quantity Available Order in multiples of 10

Qty.	10	100
Price	\$ .07	\$ .05
Part No.	Cross Ref. No.	L (μH)
372103	78FR68K*	0.68
372111	78F1R0K*	1.0
372120	78F1R8K*	1.8
372138	78F2R7K*	2.7
372146	78F3R3J	3.3
372154	78F4R7J	4.7
372162	78F8R2J	8.2
372171	78F100J	10
372189	78F120J	12

## Epoxy Conformal Coated Chokes



- Operating temperature: -25°C to +85°C
  - Tolerance: 5%
- Order in multiples of 10

Qty.	10	100
Price	\$ .09	\$ .07
Part No.	Cross Ref. No.	L (μH)
208143	CEC-100J	10
208151	CEC-270J	27
208160	CEC-330J	33
208186	CEC-470J	47
208194	CEC-101J	100

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Conformal Coated RF Chokes

JAMECO ValuePro

### J.W. Miller 5300 Series Value Equivalents

- High current & self-resonant frequency
- Epoxy coated to protect winding from harsh environments
- Low cost

★ Web Code: MBY

Qty.	1	10	100
Price	\$ .55	\$ .39	\$ .29
Part No.	Cross Ref. No.	L (μH)	
644332	5300-03R	1.5	
644341	5300-10R	5.6	
644367	5300-13R	10	
644375	5300-17R	22	
642476	5300-19R	33	
642492	5300-25R	100	
642530	5300-33R	470	

## High Current Axial RF Chokes

JAMECO ValuePro

- High current capacity
- Ferrite bobbin core
- Test frequency: 1kHz

JAMECO EXCLUSIVE  
★ Web Code: BCG

### J.W. Miller 5800 Series Value Equivalents

Qty.	1	10	100
Price	\$ .69	\$ .55	\$ .39
Part No.	Cross Ref. No.	L (μH)	
642548	5800-3R9R	3.9	
642556	5800-8R2R	8.2	
642564	5800-100R	10	
642572	5800-470R	47	
642581	5800-560R	56	
642599	5800-820R	82	
642601	5800-101R	100	
642610	5800-121R	120	
642628	5800-151R	150	
642636	5800-181R	180	
642644	5800-221R	220	
642652	5800-271R	270	
642661	5800-331R	330	
642679	5800-391R	390	
642687	5800-471R	470	
642695	5800-102R	1000	
642708	5800-152R	1500	
642716	5800-222R	2200	
642724	5800-472R	4700	
642732	5800-682R	6800	
642741	5800-103R	10000	

### J.W. Miller 5900 Series Value Equivalents

Qty.	1	10	100
Price	\$ .99	\$ .79	\$ .59
Part No.	Cross Ref. No.	L (μH)	
642759	5900-100R	10	
642767	5900-220R	22	
642775	5900-470R	47	
642783	5900-560R	56	
642791	5900-101R	100	
642804	5900-121R	120	
642812	5900-151R	150	
642821	5900-221R	220	
642839	5900-271R	270	
642847	5900-331R	330	
642855	5900-391R	390	
642871	5900-681R	680	
642880	5900-102R	1000	
642919	5900-682R	6800	
642901	5900-472R	4700	
642927	5900-103R	10000	

## Hash RF Chokes

### J.W. Miller 5200 Series Value Equivalents

- High current capacity
- Ideal for use as EMI filter, output choke smoothing coil
- Low DCR

Varnish coated

Qty.	1	10	100
Price	\$ .89	\$ .69	\$ .49
Part No.	Cross Ref. No.	L (μH)	
642396	5230R	4	
642409	5240R	40	
681070	5252R	125	
642417	5254R	250	
642425	5256R	500	
642433	5258R	1000	

## Axial Leaded RF Chokes

JAMECO ValuePro

\* Web Code: XCF

- Inductive tolerance: 10%
- Operating temp.: -55°C to +125°C
- Overall length: 3.6" max.
- Lead length: 1.5" max.
- Body length: 0.77" max.
- Body dia.: 0.3" max.



### J.W. Miller 4600 Series Value Equivalents

Qty.	1	10	100
Price	\$ .69	\$ .55	\$ .39

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
208071	4604	1.5	642337	4624R	15
208080	4606	2.4	642345	4626R	24
208101	4609	5.5	642353	4629R	55
208119	4610	6.2	642388	4632R	100
208127	4611	8.2			

Passives

## Molded RF Chokes

JAMECO ValuePro

- Dielectric strength: 1000Vrms
- Injection molded to protect from extreme environment
- High Q and high reliability

\* Web Code: PBY

### J.W. Miller 9230 Series Equivalents

Qty.	1	10	100
Price	\$ .59	\$ .49	\$ .35

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
372285	9230-94	0.10	372373	9230-34	3.9
372293	9230-00	0.15	372381	9230-36	4.7
372306	9230-04	0.22	372390	9230-44	10
372314	9230-10	0.39	372402	9230-52	22
372322	9230-12	0.47	372411	9230-56	33
372331	9230-14	0.56	372429	9230-64	68
372349	9230-16	0.68	372437	9230-68	100
372357	9230-20	1.0	372445	9230-70	120
372365	9230-32	3.3			

★ Web Code: EPS

[www.Jameco.com/More](http://www.Jameco.com/More)

Jump from catalog to web.  
Quick Search by Web Code

SEARCH

Enter web codes online for additional product listings and specifications. Look for the web code box on the home page.

# Hook-Up & Telephone Cable

3 LEVELS OF SAVINGS  
 NAME BRANDS | HOUSE BRANDS | FACTORY OVERRUN

JAMECO ValuePro

## Hook-Up Wire – Single & Dual Rated

\* Web Code: JAS

- Applications: Interconnection circuits, wiring of computer and data processing equipment, applications and automotive
- Tinned copper
- PVC insulation
- Stranded
- Sold in 100' rolls

**Single Rated (UL1007):** -40° to 80°C: 300V peak

**Dual Rated (UL1007 & UL1569):** -40° to 105°C: 600V peak

Appliance Wiring Material (AWM) is UL recognized covering of insulated wire & cable intended for internal wiring of appliances & equipment.



## Composite Data, Audio, Video Security & Control Cable

Two RG6 18 AWG solid bare copper conductors and Two 4-pair UTP 24 AWG solid bare copper conductors



**BELDEN**

- Gas injected FPE insulation coax cable, polyolefin insulation CAT5e cable and F-R PVC jackets
- Banana Peel™ jacketless cable
- Component nominal outer diameter: 0.194"
- Overall nominal outer diameter: 0.600"
- Color: black

Part No.	Mfr. Part No.	Description	Price
734163	7913S-1000R	1000' reel	\$549.95

For Soldering Equipment, see pgs 165-170

For Wire Cutters/Strippers, see pgs 160-162

Wire & Cable

## Solid Hook-Up Wire – 22 AWG

\* Web Code: PAF



- Temperature range: -55°C to +105°C
- Passes UL VW-1 flame test
- MIL-W-16878D type B
- For use with breadboards such as the JE20 series, pg 172

100 Foot Reel		Pricing		
Part No.	Color	1	5	
36768	BlueR	\$6.95	\$6.29	
36792	BlackR	6.95	6.29	
36822	GreenR	6.95	6.29	
36856	RedR	6.95	6.29	
36881	WhiteR	6.95	6.29	
36920	YellowR	6.95	6.29	

1000 Foot Reel		Pricing		
Part No.	Color	1	5	
36776	BlueR	\$59.95	\$54.95	
36805	BlackR	59.95	54.95	
36840	GreenR	59.95	54.95	
36864	RedR	59.95	54.95	
36899	WhiteR	59.95	54.95	
36928	YellowR	59.95	54.95	

## Kynar™ Wire-Wrap Wire – 30 AWG



\* Web Code: NAC

- Polyvinylidene fluoride insulation
- Used for prototyping
- Silver plated copper (solid conductor)
- UL 1423
- Temperature: -40°C to +125°C
- Passes UL VW-1 flame test
- Wire wrap tools, pg 163
- See pg 18 for sockets

100 Foot Reel		Pricing		
Part No.	Color	1	5	
22542	BlueR	\$7.95	\$7.25	
22577	BlackR	7.95	7.25	
22631	RedR	7.95	7.25	
22665	WhiteR	7.95	7.25	
22606	GreenR	7.95	7.25	
22700	YellowR	7.95	7.25	

1000 Foot Reel		Pricing		
Part No.	Color	1	5	
22551	BlueR	\$54.95	\$49.95	
22585	BlackR	54.95	49.95	
22649	RedR	54.95	49.95	
22673	WhiteR	54.95	49.95	
22614	GreenR	54.95	49.95	
22702	YellowR	54.95	49.95	

## Twisted Paired Cable – 24 AWG



\* Web Code: EBC

- PVC insulation
- Use for hook-up wire
- Stranded tinned wire (7 x 32)
- Reduced EMI
- 80°C
- 300 V

100 Foot Reel		Pricing		
Part No.	Color	1	5	
173164	Black/whiteR	\$8.95	\$7.95	
105912	Grn/whiteR	8.95	7.95	
173148	Red/whiteR	8.95	7.95	

1000 Foot Reel		Pricing		
Part No.	Color	1	5	
173172	Black/whiteR	\$79.95	\$69.95	
105807	Grn/whiteR	79.95	69.95	
173156	Red/whiteR	79.95	69.95	

## Modular Telephone Cable – 28 AWG



\* Web Code: LCG

- Color coded conductors
- Flat modular cable • Gray
- 7 x 43 stranded • PVC jacket

Part No.	Cross Ref. No.	Conductors	Length (ft.)	1	5	10
644666	300-840SL-100	4	100	\$5.95	\$5.49	\$4.95
644674	300-840SL-1000	4	1000	49.95	44.95	39.95
644691	300-860SL-100	6	100	8.95	7.95	6.95
644703	300-860SL-1000	6	1000	69.95	64.95	59.95
644720	300-880SL-100	8	100	9.95	8.95	7.95
644738	300-880SL-1000	8	1000	89.95	84.95	79.95

## 1/4 Lb. Solid Bare Nickel Chromium Resistance Wire

This wire is made for applications requiring extremely high temperatures such as electrical heating and industrial rheostat and resistance. The heat rating allows the wire to withstand severe overloads and short circuits.

- 60% nickel, 16% chromium, 24% iron
- Temperature: to 3056°F (1680°C)
- Excellent resistance characteristics

**NEW**  
MARKED IN PINK



## 1/4 Lb. Magnet Wire

\* Web Code: MGT

Excellent Windability!

Magnetic wire is perfect for custom winding applications: coils, inductors, transformers, motors, ballasts, relays, speakers and timers.

- Solid bare copper conductor
- Polyurethane/polyamide (nylon) insulation
- Solderable @ 806°F/430°C (14-24 AWG), 680°F/360°C (25-40 AWG)
- Approvals: MIL JW-1177/9, MW 28-C, Class 130 (14-24 AWG)  
MIL JW-1177/42, MW 80-C, Class 155 (25-40 AWG)

**NEW**  
MARKED IN PINK



Part No.	Gauge	Nom. O.D.	Length (ft.)	Temp. Range	1	5	25
2119371	16 AWG R	.0510"	32	-30° - 130°C	\$15.95	\$14.49	\$13.49
2119380	18 AWG R	.0418"	51	-30° - 130°C	5.75	5.25	4.75
2098398	20 AWG R	.0334"	81	-30° - 130°C	5.95	5.49	4.95
2098401	22 AWG R	.0265"	129	-30° - 130°C	6.49	5.95	5.49
2098419	24 AWG R	.0213"	205	-30° - 130°C	6.95	6.49	5.95
2119347	26 AWG R	.0169"	328	-30° - 155°C	7.95	7.25	6.49
2119355	28 AWG R	.0136"	520	-30° - 155°C	8.95	7.95	7.25
2119363	30 AWG R	.0109"	825	-30° - 155°C	9.49	8.49	7.49

R RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Coaxial Cable

JAMECO ValuePro

\* Web Code: CLC

Common Coax Cables: RG-#U (RG = Radio Grade; U = Universal)

RG-6: CATV/SAT, 18 AWG Coax, 75Ω

RG-8: Amateur radio; thicker than RG-6, 50Ω

RG-58: Radio communication, amateur radio, 50Ω

RG-59: Baseband video in CCTV, low shielding, 75Ω

RG-174: WiFi pigtails, more flexible but higher loss than RG-58, 50Ω

- Color: black
- PVC jacket

Part No.	*Mfr.	Product No.	Fig.	Length	AWG	Type	Nom. Imp (Ω)	Insul.	Bare Copper	Braid Shield	Pricing	
											1	5
233269	BDN	9116 010100	1	100' Reel	18 Solid	Series 6	75	B	0.040"	60 <sup>3</sup>	\$10.95	\$9.95
232733	BDN	1189A 010100	2	100' Reel	18 Solid	Series 6	75	B	0.040"	60/40 <sup>2</sup>	13.95	12.95
732751	BDN	8214 010100 <sup>A</sup>	4	100' Reel	11 Stranded	RG8/U	50	A	0.108"	97	159.95	145.95
732769	BDN	8214 010500 <sup>A</sup>	4	500' Reel	11 Stranded	RG8/U	50	A	0.108"	97	599.95	579.95
232776	BDN	8214 0101000+	4	1000' Reel	11 Stranded	RG8/U	50	A	0.108"	97	649.95	629.95
732865	BDN	8237 0101000 <sup>A</sup>	4	1000' Reel	13 Stranded	RG8/U	52	A	0.085"	97	899.95	—
232813	BDN	8219 010100	6	100' Reel	20 Stranded	RG58A/U	53.5	A	0.037"	96	34.95	33.95
644754	JVP	RG58/U-100	5	100' Reel	20 Solid	RG58/U	50	A	0.015"	38	14.95	13.95
644762	JVP	RG58/U-1000	5	1000' Reel	20 Solid	RG58/U	50	A	0.015"	38	109.95	99.95
234158	BDN	543945 010100	7	100' Reel	20 Solid	RG59/U	75	C	0.145"	95	17.95	15.95
234086	BDN	1505A 010100	3	100' Reel	20 Solid	RG59/U	75	B	0.032"	98 <sup>1</sup>	34.95	32.95
232961	BDN	8281 010100	4	100' Reel	20 Solid	RG59/U	75	A	0.031"	98	44.95	39.95
734161	BDN	543945 010500 <sup>A</sup>	7	500' Reel	20 Solid	RG59/U	75	C	0.145"	95	79.95	74.95
732980	BDN	8281 010500 <sup>A</sup>	4	500' Reel	20 Solid	RG59/U	75	A	0.031"	98	349.95	329.95
734088	BDN	1505A 010100 <sup>A</sup>	3	1000' Reel	20 Solid	RG59/U	75	B	0.032"	98 <sup>1</sup>	329.95	319.95
732988	BDN	8281 0101000 <sup>A</sup>	4	1000' Reel	20 Solid	RG59/U	75	A	0.031"	98	899.95	—
644797	JVP	RG59/U-100	5	100' Reel	22 Solid	RG59/U	75	A	0.005"	31	11.95	10.95
644800	JVP	RG59/U-1000	5	1000' Reel	22 Solid	RG59/U	75	A	0.005"	31	74.95	69.95
232653	BDN	9259 010100	4	100' Reel	22 Stranded	RG59/U	75	A	0.030"	95	34.95	29.95
734071	BDN	9259 010U500 <sup>A</sup>	4	500' Unreel	22 Stranded	RG59/U	75	A	0.030"	95	169.95	159.95
644818	JVP	RG174/U-100	6	100' Reel	26 Stranded	RG174/U	50	A	0.020"	98	19.95	18.95
644826	JVP	RG174/U-1000	6	1000' Reel	26 Stranded	RG174/U	50	A	0.020"	98	179.95	169.95
234135	BDN	8218 010U100	5	100' Reel	27 Stranded	Video	75	A	0.017"	93	34.95	29.95
734173	BDN	8218 0101000 <sup>A</sup>	5	1000' Reel	27 Stranded	Video	75	A	0.017"	93	349.95	339.95



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

A = Polyethylene

B = Gas Injected Foam HDPE

C = Polyolefin

1 = With DuoFoil shield

2 = Duobond IV shield

3 = Duobond II + Aluminum Braid Shield



## Multi-Conductor Cable

JAMECO ValuePro

\* Web Code: MCC

Part No.	Mfr.	Product No.	Fig.	AWG (stranded)	# of Cond.	Length	Jacket	Wire Color	Insul.	Nom. O.D.	Pricing	
											1	5
732996	BDN	8442 060100 <sup>A</sup>	1	22 <sup>1</sup>	2	100' Reel	Chrome/PVC	Black, Red	A	0.170"	\$29.95	\$26.95
733008	BDN	8442 060500 <sup>A</sup>	1	22 <sup>1</sup>	2	500' Reel	Chrome/PVC	Black, Red	A	0.170"	109.95	99.95
734054	BDN	8442 060U1000 <sup>A</sup>	1	22 <sup>1</sup>	2	1000' Unreel	Chrome/PVC	Black, Red	A	0.170"	199.95	189.95
733024	BDN	8443 060100 <sup>A</sup>	2	22 <sup>1</sup>	3	100' Reel	Chrome/PVC	Black, Red, Green	A	0.172"	34.95	32.95
733032	BDN	8443 060500 <sup>A</sup>	2	22 <sup>1</sup>	3	500' Reel	Chrome/PVC	Black, Red, Green	A	0.172"	139.95	135.95
733059	BDN	8444 060100 <sup>A</sup>	3	22 <sup>1</sup>	4	100' Reel	Chrome/PVC	Blk, Red, Wh, Grn	A	0.185"	44.95	42.95
733067	BDN	8444 060500 <sup>A</sup>	3	22 <sup>1</sup>	4	500' Reel	Chrome/PVC	Blk, Red, Wh, Grn	A	0.185"	179.95	169.95
733083	BDN	8445 060100 <sup>A</sup>	4	22 <sup>1</sup>	5	100' Reel	Chrome/PVC	Blk, Red, Wh, Grn, Brn	A	0.194"	54.95	49.95
733104	BDN	8445 0601000 <sup>A</sup>	4	22 <sup>1</sup>	5	1000' Reel	Chrome/PVC	Blk, Red, Wh, Grn, Brn	A	0.194"	349.95	339.95
733201	BDN	8770 060100 <sup>A</sup>	5	18/20 drain wire <sup>2</sup>	3	100' Reel	Chrome/PVC	Black, Red, Clear	B	0.246"	59.95	57.95
733227	BDN	8770 0601000 <sup>A</sup>	5	18/20 drain wire <sup>2</sup>	3	1000' Reel	Chrome/PVC	Black, Red, Clear	B	0.246"	599.95	579.95
733235	BDN	8771 060100 <sup>A</sup>	5	22/22 drain wire <sup>2</sup>	3	100' Reel	Chrome/PVC	Black, Red, Clear	B	0.199"	39.95	37.95
644383	JVP	SC4-25 <sup>A</sup>	6	24 drain wire <sup>3</sup>	4	25' Reel	Gray/PVC	Multi-Colored	A	0.200"	6.95	6.25
644391	JVP	SC4-100 <sup>A</sup>	6	24 drain wire <sup>3</sup>	4	100' Reel	Gray/PVC	Multi-Colored	A	0.200"	24.95	22.49
644404	JVP	SC4-1000 <sup>A</sup>	6	24 drain wire <sup>3</sup>	4	1000' Reel	Gray/PVC	Multi-Colored	A	0.200"	179.95	169.95
644412	JVP	SC-925 <sup>A</sup>	6	24 drain wire <sup>3</sup>	9	25' Unreel	Gray/PVC	Multi-Colored	A	0.230"	14.95	12.95
644421	JVP	SC9-100 <sup>A</sup>	6	24 drain wire <sup>3</sup>	9	100' Reel	Gray/PVC	Multi-Colored	A	0.230"	44.95	39.95
644439	JVP	SC9-1000 <sup>A</sup>	6	24 drain wire <sup>3</sup>	9	1000' Reel	Gray/PVC	Multi-Colored	A	0.230"	349.95	329.95
644447	JVP	SC15-25 <sup>A</sup>	6	24 drain wire <sup>3</sup>	15	25' Unreel	Gray/PVC	Multi-Colored	A	0.280"	24.95	22.95
644455	JVP	SC15-100 <sup>A</sup>	6	24 drain wire <sup>3</sup>	15	100' Reel	Gray/PVC	Multi-Colored	A	0.280"	49.95	44.95
644463	JVP	SC15-1000 <sup>A</sup>	6	24 drain wire <sup>3</sup>	15	1000' Reel	Gray/PVC	Multi-Colored	A	0.280"	399.95	379.95
644471	JVP	SC25-25 <sup>A</sup>	6	24 drain wire <sup>3</sup>	25	25' Unreel	Gray/PVC	Multi-Colored	A	0.370"	29.95	26.95
644480	JVP	SC25-100 <sup>A</sup>	6	24 drain wire <sup>3</sup>	25	100' Reel	Gray/PVC	Multi-Colored	A	0.370"	89.95	85.95
2006377	JVP	SC25-500 <sup>A</sup>	6	24 drain wire <sup>3</sup>	25	500' Unreel	Gray/PVC	Multi-Colored	A	0.370"	399.95	379.95

1 = Unshielded

2 = Overall Beldfoil Shield

3 = 100 Aluminum Mylar Shield

A = PVC      B = Polyethylene

Blk = Black      Brn = Brown

Grn = Green      Wh = White



Fig. 1



Fig. 2

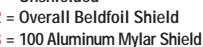


Fig. 3

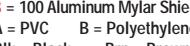


Fig. 4

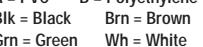


Fig. 5



Fig. 6

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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# Paired & Flat Ribbon Cable

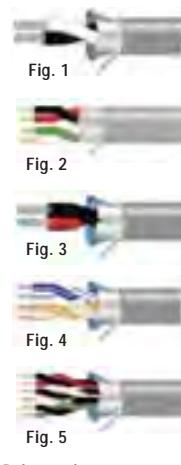
3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN



## Paired Cable

\* Web Code: HCS

Part No.	Product No.	Fig.	AWG/Drain Wire	# of Pairs	Length	Jacket	Wire Color	Insul.	Pricing	
									1	5
733172	8720 060100R	1	14 / 16	1	100' Reel	Chrome/PVC	Black/Clear	B	\$84.95	\$79.95
733190	8720 060500R	1	14 / 16	1	500' Reel	Chrome/PVC	Black/Clear	B	369.95	349.95
734066	8720 060U500R	1	14 / 16	1	500' Unreel	Chrome/PVC	Black/Clear	B	369.95	349.95
233146	8714 060100	1	16 / 18	1	100' Reel	Chrome/PVC	Black/Clear	B	69.95	63.95
734065	8719 060U500R	1	16 / 18	1	500' Unreel	Chrome/PVC	Black/Clear	B	259.95	239.95
733163	8719 0601000R	1	16 / 18	1	1000' Reel	Chrome/PVC	Black/Clear	B	549.95	529.95
734185	8790 060100R	1	18 / 24	1	100' Reel	Chrome/PVC	Black/Clear	B	41.95	39.95
234194	8762 060100	1	20 / 20	1	100' Reel	Chrome/PVC	Black/Clear	B	29.95	26.95
734197	8762 060500R	1	20 / 20	1	500' Reel	Chrome/PVC	Black/Clear	B	129.95	119.95
733112	8451 010100R	3	22 / 22	1	100' Reel	Black/PVC	Black/Red	A	26.95	24.95
734063	8451 010U500R	3	22 / 22	1	500' Unreel	Black/PVC	Black/Red	A	129.95	115.95
734180	8723 060100R	2	22 / 24	2	100' Reel	Chrome/PVC	Black/Red, Green/White	A	49.95	46.95
734184	8723 060U500R	2	22 / 24	2	500' Unreel	Chrome/PVC	Black/Red, Green/White	A	199.95	189.95
734181	8723 0601000R	2	22 / 24	2	1000' Reel	Chrome/PVC	Black/Red, Green/White	A	399.95	379.95
734179	1419A 060100R	4	24 / 24	2	100' Reel	Chrome/PVC	Wh/Blue Str, Blue/Wh Str, Wh/Org Str, Org/Wh Str	D	29.95	26.95
734085	1419A 0601000R	4	24 / 24	2	1000' Reel	Chrome/PVC	Wh/Blue Str, Blue/Wh Str, Wh/Org Str, Org/Wh Str	D	279.95	259.95



A = Polypropylene  
B = Polyethylene  
C = Semi-rigid PVC  
D = Datalene E = Standard PVC  
Wh = White Blk = Black  
Org = Orange Str = Stripe

JAMECO ValuePro

## Flat Ribbon Cable

### Gray Cable — 28AWG (7 x 36)

\* Web Code: WBX



- Insulation: polyvinyl chloride (PVC)
- Single edge red stripe for pin 1 orientation

Part No.	Cross Ref. No.	Conductors	Length	1	5	25
643794	171-10-10R	10	10'	\$2.79	\$2.49	\$2.19
643807	171-10-25R	10	25'	5.49	5.25	4.99
643815	171-10-100R	10	100' reel	17.95	15.95	14.95
689311	9L2801000RH*	10	100' reel	25.95	23.95	21.95
643831	171-16-10R	16	10'	3.95	3.59	3.29
643840	171-16-25R	16	25'	7.95	6.95	6.29
643858	171-16-100R	16	100' reel	23.95	21.95	19.95
643874	171-20-10R	20	10'	3.95	3.59	3.29
643882	171-20-25R	20	25'	8.95	7.95	6.95
643891	171-20-100R	20	100' reel	32.95	29.95	26.95
643911	171-25-10R	25	10'	4.95	4.49	3.95
643920	171-25-25R	25	25'	10.95	8.95	7.95
643938	171-25-100R	25	100' reel	36.95	33.95	29.95
643962	171-26-10R	26	10'	5.95	5.49	4.95
643971	171-26-25R	26	25'	11.95	10.95	9.95
643989	171-26-100R	26	100' reel	39.95	36.95	33.95
644033	171-34-10R	34	10'	6.49	5.95	5.49
644041	171-34-25	34	25'	12.95	11.95	10.95
644050	171-34-100R	34	100' reel	51.95	49.95	47.95
644076	171-37-10R	37	10'	6.95	6.29	5.59
644084	171-37-25R	37	25'	12.95	11.95	10.95
644092	171-37-100R	37	100' reel	49.95	44.95	42.95
644113	171-40-10R	40	10'	7.95	6.95	6.29
644121	171-40-25R	40	25'	15.95	14.49	12.95
644130	171-40-100R	40	100' reel	55.95	52.95	49.95
644156	171-50-10R	50	10'	8.95	7.95	6.95
644164	171-50-25R	50	25'	17.95	16.49	14.95
644172	171-50-100R	50	100' reel	59.95	56.95	52.95
689426	9L28050008H100R*	50	100' reel	119.95	109.95	99.95
644199	171-60-10R	60	10'	9.95	8.95	7.95
644201	171-60-25R	60	25'	17.95	16.95	14.95
644210	171-60-100R	60	100' reel	64.95	59.95	54.95

\* Belden: -40°C to +105°C

- Prepackaged and priced in lengths listed below

### Multicolor Cable — 28AWG (7 x 36)



- Standard 10-color repeat sequence
- Voltage rating: 300V
- Center spacing: 0.05"
- Stranded copper wire
- Temp. rating: -20°C to +80°C

Part No.	Cross Ref. No.	Conductors	Length	1	5	25
639672	28RC10-10R	10	10'	\$3.95	\$3.59	\$3.19
643508	28RC10-25R	10	25'	8.95	7.95	6.95
643516	28RC10-100R	10	100' reel	29.95	27.95	24.95
643532	28RC16-10R	16	10'	5.95	5.49	4.95
643541	28RC16-25R	16	25'	12.95	11.95	10.95
643559	28RC16-100R	16	100' reel	49.95	44.95	39.95
643575	28RC20-10R	20	10'	6.95	6.49	5.95
643583	28RC20-25R	20	25'	16.95	15.49	13.95
643591	28RC20-100R	20	100' reel	64.95	59.95	54.95
643612	28RC25-10R	25	10'	8.95	7.95	6.95
643621	28RC25-25R	25	25'	22.95	20.95	18.95
643639	28RC25-100R	25	100' reel	69.95	64.95	59.95
643655	28RC34-10R	34	10'	10.95	9.95	8.95
643663	28RC34-25R	34	25'	25.95	23.95	21.95
643671	28RC34-100R	34	100' reel	89.95	84.95	79.95
643698	28RC40-10R	40	10'	12.95	11.95	10.95
643701	28RC40-25R	40	25'	33.95	29.95	26.95
643719	28RC40-100R	40	100' reel	119.95	109.95	99.95
643735	28RC50-10R	50	10'	19.95	17.95	15.95
643743	28RC50-25R	50	25'	39.95	36.95	33.95
643751	28RC50-100R	50	100' reel	145.95	135.95	129.95

\* Blue Part No. = Limited Quantity Available

## Flat Ribbon Cable – Gray

\* Web Code: WBX



### .100" (2.54mm) — 24AWG

- Capacitance: 31pF/m
- Insulation resist.: 100MΩ
- Temp. rating: 105°C
- Insulation material: 7mm polyvinyl chloride (PVC) gray

Part No.	Mfr.	Cross Ref.	Conductor	Length	1	5	25
363813	Various	H24G-10-10	10	10'	\$9.95	\$8.95	\$7.95
363856	ValuePro	H24G-10-100	10	100'	69.95	63.95	59.95

\* RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).



## Speaker Cable

\*Web Code: JCS



Part No.	Product No.	Length	AWG	Color	1	5
734081	9708 368U1000R	1000' Unreel	18 Stranded	Clear	\$349.95	\$329.95
232602	9717 368100	100' Reel	14 Stranded	Clear	39.95	35.95
733430	9717 368500R	500' Reel	14 Stranded	Clear	329.95	299.95
232629	9718 368100	100' Reel	12 Stranded	Clear	54.95	49.95
732646	9718 3681000R	1000' Reel	12 Stranded	Clear	819.95	799.95

## JAMECO ValuePro 2-Conductor Power/Speaker Cable – 24 AWG

- Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32)
- Operating voltage: 300V

**JAMECO EXCLUSIVE**



\*Web Code: VAL

Part No.	Product No.	Length	1	5	10
100280	CAR45B-100R	100'	\$7.95	\$7.25	\$6.49
100299	CAR45B-1K	1000'	54.95	49.95	46.95

## JAMECO ValuePro Category 5e Network Cable

\*Web Code: KCG



## 24 AWG UTP Category 5e Enhanced - 350MHz (Non-Plenum)

Part No.	*Mfr.	Product No.	Length	Color	Description	1	5
645714	JVP	10X5-704TH-25VP	25'	Blue	Solid .....	\$3.95	\$3.49
645722	JVP	10X5-704TH-100VP	100'	Blue	Solid .....	13.95	12.49
645731	JVP	10X5-704TH-1000R	1000'	Blue	Solid .....	119.95	109.95
644543	JVP	10X5-701TH-25VP	25'	Gray	Solid .....	3.49	3.25
644551	JVP	10X5-701TH-100R	100'	Gray	Solid .....	13.95	12.49
644560	JVP	10X5-701TH-1000R	1000'	Gray	Solid .....	119.95	109.95
644607	JVP	10X5-804TH-25	25'	Blue	Stranded .....	4.95	4.49
644615	JVP	10X5-804TH-100	100'	Blue	Stranded .....	15.95	13.49
644623	JVP	10X5-804TH-1000R	1000'	Blue	Stranded .....	125.95	109.95
645773	JVP	10X5-802TH-25	25'	Black	Stranded .....	3.95	3.49
645781	JVP	10X5-802TH-100	100'	Black	Stranded .....	15.95	13.49
645790	JVP	10X5-802TH-1000R	1000'	Black	Stranded .....	125.95	109.95
644586	JVP	10X5-801TH-100	100'	Gray	Stranded .....	15.95	13.49
644594	JVP	10X5-801TH-1000R	1000'	Gray	Stranded .....	125.95	109.95
645749	JVP	10X5-805TH-25VP	25'	Red	Stranded .....	4.95	4.49

## 24 AWG UTP Category 5e Enhanced - 350MHz (Plenum)

Part No.	*Mfr.	Product No.	Length	Color	Description	1	5
734097	BDN	1585A D15100R	100'	Blue	Solid .....	\$19.95	\$17.95
734093	BDN	1585A 877100R	100'	Natural	Solid .....	24.95	22.95
734094	BDN	1585A 8771000R	1000'	Natural	Solid .....	229.95	209.95
734096	BDN	1585A 877U1000R	1000' Unreel	Natural	Solid .....	229.95	209.95
1942121	BDN	1501A 0091000R	1000'	White	Solid .....	229.95	209.95
1941970	BDN	1701A 0091000R*	1000'	White	Solid .....	329.95	309.95

\*Bonded

## Cat 5e/6 Network Crossover Cables



\*Web Code: CAE

Part No.	*Mfr.	Length	Description	1	10	100
2115573	BEL	3 ft.	Cat 5e red .....	\$2.49	\$2.19	\$1.95
681109	♦	3 ft.	Cat 5e gray .....	2.49	2.19	1.95
302041	JVP	7 ft.	Cat 5e gray .....	3.75	3.35	2.95
685812	♦	7 ft.†	Cat 5e yellow .....	3.75	3.35	2.95
169261	JVP	10 ft. R	Cat 5e gray .....	6.95	6.25	5.65
203781	JVP	12 ft.	Cat 5e black .....	2.95	2.65	2.35
679762	♦	3 ft.	Cat 6 gray .....	2.95	2.65	2.35
681096	♦	7 ft.	Cat 6 gray .....	3.75	3.35	2.95

† Without snagless boot

\* BDN = Belden | BEL = Belkin | JVP = Jameco ValuePro | ♦ Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

**JAMECO ValuePro**

## Network Cables

\*Web Code: BBK

**NEW**  
MARKED IN PINK



### Category 6

- Gold over nickel contacts
- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 category 6

Part No. Length Color 1 10 50

2115581	1 ft.	Gray .....	\$2.25	\$1.95	\$1.75
219707	3 ft. R	Gray .....	2.25	1.95	1.75
219715	7 ft. R	Gray .....	3.25	2.95	2.49
219723	14 ft. R	Gray .....	6.25	5.49	4.95
219731	25 ft. R	Gray .....	8.95	7.95	6.95
219740	50 ft. R	Gray .....	13.95	12.55	10.95
219854	3 ft. R	Blue .....	2.49	2.25	1.95
219862	7 ft. R	Blue .....	3.25	2.95	2.49
219871	14 ft. R	Blue .....	6.25	5.49	4.95
219889	25 ft. R	Blue .....	8.95	7.95	6.95
219897	50 ft. R	Blue .....	13.95	12.55	10.95
220003	3 ft. R	White .....	2.25	1.95	1.75
220011	7 ft. R	White .....	2.95	2.65	2.35
220046	50 ft. R	White .....	10.95	10.49	9.49
2115602	1 ft.	Red .....	2.25	1.95	1.75
219900	3 ft. R	Red .....	2.25	1.95	1.75
219918	7 ft. R	Red .....	3.25	2.95	2.49
219934	25 ft. R	Red .....	7.95	7.49	6.95
219942	50 ft. R	Red .....	12.49	11.49	9.95
219803	3 ft. R	Green .....	2.25	1.95	1.75
219811	7 ft. R	Green .....	3.25	2.95	2.49
219820	14 ft. R	Green .....	6.25	5.49	4.95
219766	7 ft. R	Black .....	3.25	2.95	2.49
219782	25 ft. R	Black .....	7.95	7.49	6.95
219791	50 ft. R	Black .....	11.95	10.49	9.49
2115590	1 ft.	Yellow .....	2.25	1.95	1.75
219969	7 ft. R	Yellow .....	3.25	2.95	2.49
219993	50 ft. R	Yellow .....	12.95	12.49	10.95

### Category 5e

\*Web Code: CAE



• 8P8C	• 4 pair	• 350 MHz	• UTP
• 24 AWG (7 x 43) stranded	• "Snagless" boot	• Color coded for easy wire tracing	
Part No.	Length	Color	1 10 100
168292	3 ft.	Gray .....	\$1.55 \$1.39 \$1.25
168305	7 ft. R	Gray .....	2.25 1.95 1.75
168313	15 ft.	Gray .....	3.95 3.55 2.95
168321	25 ft.	Gray .....	6.75 5.95 5.35
201777	3 ft. R	Red .....	1.55 1.39 1.25
201785	7 ft.	Red .....	2.25 1.95 1.75
201793	15 ft.	Red .....	3.95 3.55 2.95
201806	25 ft. R	Red .....	6.49 5.95 5.35
201697	3 ft. R	Black .....	1.55 1.39 1.25
201700	7 ft. R	Black .....	2.25 1.95 1.75
201718	15 ft.	Black .....	3.95 3.55 2.95
201726	25 ft. R	Black .....	6.75 5.95 5.35
201734	3 ft.	Blue .....	1.55 1.39 1.25
1945381	5 ft.	Blue .....	1.95 1.75 1.65
201742	7 ft. R	Blue .....	2.25 1.95 1.75
1945401	10 ft. R	Blue .....	3.49 3.15 2.75
201751	15 ft.	Blue .....	3.95 3.55 2.95
201769	25 ft. R	Blue .....	6.75 5.95 5.35
522845	50 ft.	Blue .....	7.95 6.95 6.25
201814	3 ft. R	Yellow .....	1.55 1.39 1.25
1945372	5 ft.	Yellow .....	1.95 1.75 1.65
201822	7 ft.	Yellow .....	2.25 1.95 1.75
1945399	10 ft.	Yellow .....	3.49 3.15 2.75
201831	15 ft.	Yellow .....	3.95 3.55 2.95
201849	25 ft. R	Yellow .....	6.49 5.95 5.35

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# Modular Cables, Plugs, Jacks & Accessories

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN



## Modular Telephone/Printer Sharing Cables (Gray)

- RJ11 - 6P4C for telephone or network
- RJ11 - 6P6C for telephone or printer sharing
- RJ45 - 8P8C for telephone or modem/dial-up use



\* Web Code: EBF

Style 1 – Reverse wiring for telephone systems



Style 2 – Straight wiring for networking/printer sharing



Part No.	Conn. Style	Type	Length	Pricing		
				1	10	100
196227	1	RJ11-6P4C	7ft.	\$1.75	\$1.59	\$1.39
115554	2	RJ11-6P4C	7ft.	1.75	1.59	1.39
115545	1	RJ11-6P4C	25ft.	2.95	2.65	2.35
201232	2	RJ11-6P4C†	35ft.	1.75	1.59	1.39
115588	1	RJ11-6P6C	7ft.	1.49	1.35	1.19
115617	2	RJ11-6P6C	7ft.	1.95	1.75	1.59
115677	2	RJ45-8P8C	7ft.	1.95	1.75	1.59

† Beige

## Keystone-Type RJ11 & RJ45 Jacks

### Modular Punchdown Type

212944



- CAT 5e classification

\* Web Code: MBV

- Punchdown type wiring connections with color coding

\* Size: 0.57" W x 1.23" D x 0.63" H

213517

Part No.	*Mfr.	Description	Color	1	10	100
213517	♦	6P6C (RJ11) A White	... \$2.75	\$2.49	\$2.25	
195630	♦	8P8C (RJ45) A Black	... 2.25	1.95	1.75	
212951	♦	8P8C (RJ45) Blue	... 2.25	1.95	1.75	
212944	♦	8P8C (RJ45) A White	... 2.95	2.65	2.39	
636130	FST	8P8C (RJ45) Almond	... 2.49	2.25	1.95	
615144	GCE	Tool-less	Ivory	... 2.49	2.25	1.95



## RJ45-Plug Color Caps (Boots)



- Round strain relief
- Order in multiples of 10

\* Web Code: JBG

204410

Part No.	Color	10	100	500	1000
204410	Black A	... .19	\$0.17	\$0.15	\$0.11
204353	Gray	... .19	.17	.15	.11
204362	Blue A	... .19	.17	.15	.11

## Cisco Wall Jack DSL Filter



- Filters out DSL
- Dimension: 4.7" x 3.0"

Part No.	Description	Color	1	10
15077	6P4C (RJ11)	White	\$2.95	\$2.65

## RJ11 Retractable Cable



This RJ11 cable extends up to 8'.

When you pack up, give it a tug and it retracts into its lightweight, rugged case like a windowshade. It's completely tangleproof.

Part No.	Product No.	1	5	25
233349	AC29908B	\$1.09	\$0.99	\$0.89

**Small Quantities Priced Near Cost**

**New Products and Accessories That Didn't Make The Catalog**

**Discontinued Consumer Products**

**And a few surprises...**

[www.Jameco.com/TechCenter](http://www.Jameco.com/TechCenter)



P = No. of positions  
C = No. of contacts

## Modular Plugs

\* Web Code: FBB



103491



79290



79273



79281



119343



116611

\* Order in multiples of 10

Part No.	Description	Size (L" x W" x H")	1	10	100	1000
103491	4P4C (RJ14) handset	.485 x .30 x .26	*	\$1.13	\$1.12	\$0.99
79290	6P4C (RJ11)	.487 x .38 x .26	*	.14	.13	.10
79273	6P6C (RJ11)	.487 x .38 x .26	.25	.23	.20	.18
79281	8P8C (RJ45) (for stranded wire)	.845 x .46 x .31	.47	.43	.38	.29
119343	8P8C (RJ45) unshielded (for solid wire)	.845 x .46 x .31	.45	.39	.35	.29
116611	8P8C (RJ45) shielded A	.866 x .46 x .33	1.09	.99	.89	.79
204231	8P8C (RJ45) shielded (for STP stranded wire)	.484 x .455 x .285	.75	.69	.59	.49
116602	8P8C (RJ45) shielded (for solid wire) A	.845 x .46 x .31	.99	.89	.79	.59
180646	10P10C (RJ50) for stranded wire	.849 x .46 x .31	.49	.45	.39	.35
524411	8P8C, unshielded flat oval solid A	.850 x .464 x .314	.55	.49	.45	.39



## Modular Jacks

\* Web Code: NEL



\* Order in multiples of 10

Part No.	*Mfr.	Description	Panel Mount	Size (L" x W" x H")	1	10	100	1000
115128	JVP	4P4C (RJ14) handset side entry, center latch A	No	.51 x .40 x .57	\$.45	\$.39	\$.35	\$.29
852836	AMP	4P4C (RJ14) side entry, center latch, flangeless	No	.82 x .44 x .63	.75	.69	.59	.49
199620	JVP	4P4C (RJ14) handset side entry, center latch	Yes	.51 x .55 x .57	.35	.29	.25	.19
105945	JVP	6P4C (RJ11) side entry, center latch, top flange	Yes	.48 x .48 x .71	*	.19	.17	.15
207781	JVP	6P4C (RJ11) side entry, center latch	No	.72 x .51 x .45	.45	.39	.35	.29
151766	JVP	6P4C (RJ11) side entry, center latch A	Yes	.80 x .52 x .59	.65	.59	.55	.49
524277	AMP	6P6C (RJ11) top entry, center latch, flangeless	No	.53 x .64 x .63	.65	.59	.55	.49
2077221	♦	6P6C (RJ11) side entry, front latch, PCB ground	Yes	.73 x .55 x .58	.69	.59	.49	.45
115837	JVP	6P6C (RJ11) side entry, center latch A	Yes	.51 x .48 x .57	.85	.75	.65	.59
204178	JVP	6P6C (RJ11) dual entry, center latch A	Yes	.62 x 1.1 x .60	1.35	1.19	.99	.79
124039	JVP	6P6C (RJ11) top entry, 6" leads, panel mount A	Yes	.54 x .59 x .72	1.25	1.09	.99	.89
800315	MOL	6P6C (RJ11) side entry, center latch, unshielded, 4 gangs A	No	.92 x .85 x .52	2.95	2.65	2.39	2.15
852449	AMP	6P6C (RJ25) side entry, center latch, SMT, low profile	Yes	.72 x .63 x .50	.89	.79	.69	.59
889129	AMP	6P6C (RJ25) top entry, center latch SMT A	No	.55 x .53 x .50	1.65	1.49	1.35	1.19
115844	JVP	8P8C (RJ45) side entry, center latch	No	.53 x .60 x .57	.69	.59	.55	.49
2078240	♦	8P8C (RJ45) side entry, center latch	Yes	.81 x .60 x .59	.69	.59	.49	.45
203449	JVP	8P8C (RJ45) side entry, center latch, shielded	No	.84 x .63 x .53	.95	.85	.75	.65
2078258	♦	8P8C (RJ45) side entry, center latch, low profile	No	.71 x .60 x .46	.49	.45	.39	.35
524461	AMP	8P8C (RJ45) side entry, front latch, low profile	No	.72 x .61 x .50	.55	.49	.45	.39
2078266	♦	8P8C (RJ45) side entry, front latch, low profile	No	.68 x .59 x .49	.49	.45	.39	.35
1537416	KYC	8P8C (RJ45) side entry, front latch, low profile	Yes	.72 x .60 x .50	.59	.45	.35	.29
524488	AMP	8P8C (RJ45) top entry, top latch	No	.66 x .62 x .63	.65	.59	.55	.49
2077790	♦	8P8C (RJ45) top entry, bottom latch	Yes	.64 x .61 x .62	.59	.55	.49	.45

## RS-232-to-RJ11/RJ45 Modular Jack Adapters

\* Web Code: RDR

Simplify networking applications when changing your RS-232 port to an RJ11 or RJ45 modular jack. Comes with all necessary hardware and wiring.

Part No.	*Mfr.	Description	1	10	100
615005	GCE	DB9 F to RJ45 (8P8C)	\$2.45	\$2.19	\$1.95
66229	JVP	DB25 M to RJ11 (6P6C)	2.75	2.49	2.25
2099681	JVP	DB15 F to RJ-11 (6P6C)	2.49	2.25	1.95
66237	JVP	DB25 M to RJ45 (8P8C)	1.85	1.69	1.49
615021	GCE	DB25 M to RJ45 (8P8C)	2.75	2.49	2.25
204273	JVP	DB25F - RJ11 (6P4C)	.75	.69	.65
66254	JVP	DB25 F to RJ45 (8P8C) A	1.85	1.69	1.49

## EZ-RJ45 Category 5 & 6 Modular Plugs

Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

Part No.	Mfr. Part No.	Description	1	10	100	1000
158115	300568EZ A	8P8C CAT5 EZ-Plug	\$1.65	\$1.49	\$1.35	\$1.19
2099278	300668EZ A	8P8C CAT6 EZ-Plug	1.75	1.59	1.45	1.29



\* AMP = AMP | FST = FutureSmart | GCE = GC Electronics | JVP = Jameco ValuePro | KYC = Kycon | MOL = Molex | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

# Modular Products, Cable Clips & Accessories

## Modular Couplers and Adapter



Style 1 Reverse wiring for telephone systems

Style 2 Straight wiring for networking/printer sharing



Part No.	Description	Fig.	Pricing		
			1	10	100
71757	6P6C modular coupler, Style 1, RJ11	1	\$ .95	\$ .85	\$ .75
135087	6P6C modular coupler, Style 2, RJ11	1	1.09	.99	.89
181091	6P6C make "T" adapter, Style 2, RJ11	2	.75	.69	.59
118501	8P8C modular coupler, Style 1, RJ45	1	1.75	1.55	1.39
135079	8P8C modular coupler, Style 2, RJ45	1	1.39	1.25	1.15
153023	8P8C modular coupler, Style 2 (for CAT 5) RJ45	3	7.95	7.15	6.45

JAMECO ValuePro

## Modular Jack Boxes



Fig. 1  
W: 2.0"  
H: 2.2"  
D: 0.9"

Fig. 2  
W: 1.5"  
H: 2.4"  
D: 1.1"

Fig. 3  
W: 2.4"  
H: 2.4"  
D: 1.1"

Part No.	Description	Fig.	Pricing		
			1	10	100
103464	6P4C adhesive jack RJ11 (beige)	1	\$1.25	\$1.09	\$ .99
71984	6P6C adhesive jack RJ11 (beige)	1	1.39	1.25	1.15
71651	8P8C adhesive jack RJ45 (beige)	1	1.39	1.25	1.15
213032	8P8C adhesive jack RJ45 (single, white) (CAT 5e)	2	3.49	3.15	2.85
213049	8P8C adhesive jack RJ45 (dual, white) (CAT 5e)	3	4.25	3.75	3.25

## Modular Jack Wall Plates



Part No.	Description	Fig.	Pricing		
			1	10	100
72311	6P6C & 8P8C double wall jack plate w/ jacks (beige)	1	\$1.25	\$1.09	\$ .95
319821	8P8C quad wall jack plate w/ jacks (white) (CAT 5e)	2	5.95	5.49	—

## Professional Modular Connector Crimping Tool

Part No.	Mfr. Part No.	1	10	25
181148	HT200	\$54.95	\$49.49	\$44.55

For more Hand Tools, see pages 160-163

## Modular Couplers and Adapter

\* Web Code: XAH

Fig. 1  
W: 1.5"  
H: 0.9"  
D: 0.7"

Fig. 2  
W: 1.1"  
H: 0.8"

Fig. 3  
W: 1.7"  
H: 1.0"  
D: 0.9"

## Keystone-Type Wall Plates

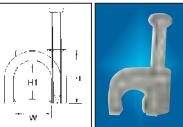
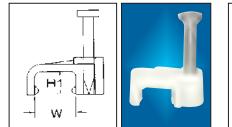
- Size: 2.8"W x 4.5"H
- RJ45 8P8C

\* Web Code: RBH

636965 212960



## Nail-In Cable Clips



190828

190861

- Material: Impact resistant PE
- With nails inserted

### For telephone cords; white

Order in multiples of 100

Part No.	Cross Ref. No.	W" x H" x H1"	100	1000
190828	NF1.2	.24 x .21 x .15	\$.02	\$.01
190836	NF1.6	.31 x .31 x .20	.02	.01

### For general round cables; gray

Order in multiples of 100

Part No.	Cross Ref. No.	W" x H" x H1"	100	1000
190861	NCO.35N	.14 x .23 x .15	\$.02	\$.01
190887	NC1N	.24 x .35 x .26	.02	.01
190895	NC2N	.31 x .45 x .34	.02	.01
190908	NC3N	.39 x .53 x .41	.02	.01

## Nylon Cable Ties

### Standard

- Cable ties made from UL approved Nylon 66
- Temperature range: -40°C to +85°C
- Color: clear (except P/N 182677: white)
- Flammability rating: UL 94V-2

\* Web Code: QAV

Order in multiples of 100

Part No.	Tensile Strength	Size (L" x W")	100	1000
70561	18 lbs.	3.1 x 0.10	\$.04	\$.03
126544	18 lbs.	4.0 x 0.10	.03	.02
182677	18 lbs.	4.75 x 0.13	.04	.03
182651	18 lbs.	5.5 x 0.13	.11	.10
139150	18 lbs.	8.0 x 0.10	.04	.03
182669	18 lbs.	8.0 x 0.13	.04	.03
182685	18 lbs.	8.0 x 0.18	.04	.03
70907	40 lbs.	5.8 x 0.10	.08	.07
190756	40 lbs.	10.0 x 0.14	.09	.07
190772	40 lbs.	11.0 x 0.19	.09	.07
190764	40 lbs.	13.0 x 0.14	.10	.08

### Weather Resistant

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use

\* UV Resistant

Order in multiples of 100

Part No.	Tensile Strength	Size (L" x W")	100	1000
139125	18 lbs.	3.0 x 0.90	\$.03	\$.01
104142	18 lbs.	4.0 x 0.10	.05	.03
104134	40 lbs.	5.8 x 0.10	.08	.05
190782	40 lbs.	8.0 x 0.13	.11	.08
190800	40 lbs.	10.0 x 0.14	.18	.13
190802	40 lbs.	13.0 x 0.14	.19	.17

### Cable Tie Assortments

- Tensile strength: 18-50 lbs.
- 145701: 1000 pcs. (4'L); 10 colors
- 150412: 850 pcs. total 500 pcs. (4'L); 300 pcs. (8'L); 50 pcs. (11'L), 5 colors

\* UV Resistant

Order in multiples of 100

Part No.	Wt. (lbs.)	1	10	25
145701	0.7	\$9.95	\$8.95	\$7.95
150412	1.7	17.95	16.95	15.95

## Cable Tie Tool

- 2.5 - 5mm width (of cable)
- Tension adjustable
- Spring return action
- Metal

Part No.	Product No.	1	5	10
182298	0302TG-7	\$19.95	\$17.95	\$15.95

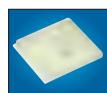
\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

# Cable Accessories, Braided Sleeves & Heat Shrink Tubing

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## Cable Tie Mounts & Cable Clamps

- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2



\* Web Code: FBE

182942/171214/71408/71395/71386 70595

182301/173761

182334

173737

71062

Part No.	Cross Ref. No.	Description	* Order in multiples of 10	1	10	100	1000
182942	0505HC-101S	4-way cable tie mount, self-adhesive, .75"D	*	\$.10	\$.09	\$.08	
171214	HC-100	4-way cable tie mount, self-adhesive, use w/ 0.1"W max., 0.5" square	*	.16	.14	.13	
71408	HC-101	4-way cable tie mount, self-adhesive, use w/ 0.1"W max., 0.9" square	*	.19	.17	.15	
71395	HC-102	4-way cable tie mount, self-adhesive, use w/ 0.2"W max., 1.1" square	*	.25	.23	.19	
71386	HC-103	4-way cable tie mount, self-adhesive, use w/ 0.4"W max., 1.1" square	*	.37	.33	.29	.27
70595	HC-0	4-way cable tie, screw type, use w/ 0.2"W max., 0.8)L x 0.4" W	*	.19	.17	.15	
182301	0510HC-2	Cable tie mount, 1/4" screw hole, 0.5"D	*	.17	.15	.14	
173761	HC-1	Cable tie, saddle type, 0.6)L x 0.4" W	*	.10	.09	.08	
182318	0519ATC-17	2-way adjustable tie mount, #6 flat head screw, 0.7"D	*	.29	.27	.25	
182376	0519ATC-22	2-way adjustable tie mount, #6 flat head screw, 0.9"D	*	.21	.19	.15	
182334	0520FC-1	Cable tie mount, self-adhesive, 0.1"D	*	.19	.17	.14	
173729	UCO.5	Cable clamp for 3/16" cable	*	.08	.06	.04	
173737	UC1	Cable clamp for 1/4" cable	*	.11	.10	.09	
71062	MCV-100R	Cable ID tie (4'L x 0.1"W) with tab (.98"W x .31"H)	*	.29	.27	.23	

Wire & Cable

## FLEXO® Braided Sleeve

- Color: black
- Length: 25 feet
- Maintains properties across wide temperature range
- Cut and abrasion resistant
- UV resistant

### Flexo® Clean-Cut Braided

- Dense braid structure provides fuller coverage
- Fray resistant when cut w/ scissors

Part No.	Mfr. Part No.	Min/Max Flex (in.)	Inside Dia. (in.)	Outside Dia. (in.)	1	5
162157	CCP0.25BK25	5/32 - 7/16	0.250	0.440	\$15.95	\$14.49
162165	CCP0.50BK25	1/4 - 3/4	0.500	0.750	17.95	15.95

### Flexo® Pet Braided

- Braided from 10 mil polyethylene terephthalate monofilament yarns
- UL recognized component
- Conforms to FMVSS 302
- High tensile strength

Part No.	Mfr. Part No.	Min/Max Flex (in.)	Inside Dia. (in.)	Outside Dia. (in.)	1	5
693679	PTN0.25BK25	1/8 - 7/16	0.250	0.440	\$7.95	\$6.95
693687	PTN0.38BK25	3/16 - 5/8	0.375	0.425	11.95	10.95
695383	PTN0.50BK25	1/4 - 3/4	0.500	0.550	11.95	10.75

## JAMECO ValuePro Low Profile Conduit

No more tripping or running over cables and cords. This low profile conduit hides cables/cords and provides cable management at the same time. Simply install on any wall or floor with its double-sided tape. • 5 feet long



Part No.	Description	1	5
2112479	Low profile conduit	\$19.95	\$17.95

## JAMECO ValuePro

## Heat Shrink Tubing Kits

A selection of heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C).

2095971	2095963	285481	2095947	645976			
Size	Pieces	Size	Pieces	Size	Pieces	Size	Pieces
1/8"	12	1/16"	56	3/16"	30	1/16"	56
1/4"	10	3/32"	35	1/4"	28	3/32"	35
3/8"	6	1/8"	28	3/8"	20	1/8"	28
1/2"	4	3/16"	18	1/2"	14	3/16"	18
3/4"	3	1/4"	9	3/4"	6	1/4"	9
1"	2	3/8"	8	1"	4	3/8"	8

Part No.	Mfr.	Description	Pieces	Length	1	5
2095971	ValuePro	Black, dual wall, moisture resistant	37	4 .....	\$24.95	\$22.49
2095963	ValuePro	Black	154	4 .....	19.95	17.95
285481	3M	Black	102	6 .....	65.95	58.95
2095947	ValuePro	Black/red/white/yellow/blue/green/clear	154	4 .....	19.95	17.95
645976	3M	Black/red/white/yellow/blue/green/clear	133	6 .....	65.95	58.95

R RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).

## Polyolefin Heat Shrink Tubing

FIT221/FIT221B Series



Insulation from environment and resistance from water fungus and UV light. Use for insulation and repair, wire and cable harnessing/bundling, cable and connector protection, and wire and tubing splicing and connecting.

- Operating temp: -55°C to 135°C
- Shrinkage ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm)
- Volume resistivity: 10<sup>14</sup>Ω·cm

### Clear (4-foot pieces)

\* Web Code: VAH

Part No.	Mfr. Part No.	Before/After ID (in.)	1	10	100
419119	FIT221-3/64	.046/.023	\$.85	\$.79	\$.65
419135	FIT221-1/16	.063/.031	.95	.85	.75
419178	FIT221-1/8	.125/.062	1.19	1.05	.95
419215	FIT221-1/4	.250/.125	2.25	1.95	1.75
419231	FIT221-3/8	.375/.187	1.79	1.59	1.39
419274	FIT221-3/4	.750/.375	2.69	2.49	—
2113682	TT-100	1.00/.500	3.95	3.69	—

### Black (4-foot pieces)

Part No.	Mfr. Part No.	Before/After ID (in.)	1	10	100
419101	FIT221B-3/64	.046/.023	\$.89	\$.79	\$.69
419127	FIT221B-1/16	.063/.031	.99	.89	.79
419143	FIT221B-3/32	.093/.046	.99	.89	.79
419160	FIT221B-1/8	.125/.062	.99	.89	.79
419186	FIT221B-3/16	.187/.093	1.25	1.09	.99
419207	FIT221B-1/4	.250/.125	1.85	1.69	1.49
419223	FIT221B-3/8	.375/.187	1.95	1.75	1.59
419240	FIT221B-1/2	.500/.250	1.95	1.75	1.59

### Black (6-inch pieces)

Part No.	Mfr. Part No.	Before/After ID (in.)	Bags of	1	5
419400	FIT221B-1/16	.063/.031	36	\$14.75	\$13.29
419549	FIT221B-3/4	.750/.375	12	14.75	13.29

## Heat Shrink Tubing

- 2:1 uniform shrink ratio

Shrink temp.: 90°C

Color: black



### Polyolefin Tubing

Only sold in 10' & 100' lengths

Part No.	Dia. Before (mm)	Length (ft.)	1	10
644834	0.12" (3)	10 .....	\$1.95	\$1.75
644851	0.12" (3)	100 .....	12.65	11.49
644869	0.16" (4)	10 .....	2.15	1.95
644877	0.16" (4)	100 .....	19.95	17.95
644906	0.20" (5)	10 .....	2.45	2.19
644914	0.20" (5)	100 .....	21.45	19.29
644931	0.24" (6)	10 .....	2.55	2.29
644949	0.24" (6)	100 .....	21.75	19.59
644957	0.31" (8)	10 .....	2.95	2.65
644965	0.31" (8)	100 .....	31.95	28.75
644973	0.43" (11)	10 .....	3.95	3.55
644981	0.43" (11)	100 .....	35.95	32.35
644990	0.59" (15)	10 .....	4.95	4.45

### Polyolefin Flexible Tubing

- Dielectric strength: 1300V

Temp. range: -45°C to +125°C

Flame retardant

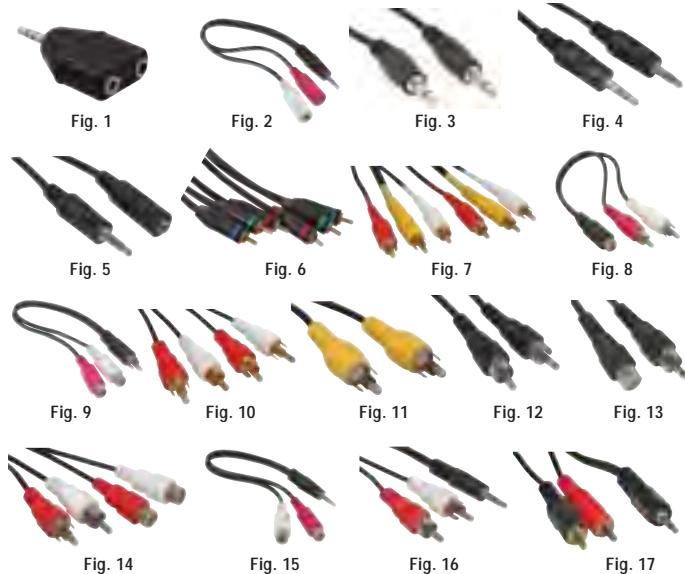


Precut 39" length (1 meter)

Part No.	Dia. Before (mm)	1	10	100
71327	.059" (1.5)	\$.55	\$.49	\$.45
71871	.079" (2.0)	.55	.49	.45
71280	.098" (2.5)	.95	.85	.75
72063	.197" (5.0)	.85	.75	.69

## Audio/Video Cables and Adapters

\* Web Code: JAU



### 3.5mm Audio Splitter and Extension/Patch Cables

Part No.	*Mfr.	Fig.	Description	1	10	100
2099649	JVP	1	1.8" 3.5mm mono F (2) to M stereo plug 	\$1.95	\$1.75	\$1.49
228398	JVP	2	6" 3.5mm stereo Y-cable F jacks (2) to M plug	2.35	2.09	1.89
1944855	♦	3	3'4" 3.5mm mono M to M plug (black)	1.25	1.09	.99
228494	JVP	4	6' 3.5mm stereo M to M plug (black)	1.45	1.29	1.15
228515	JVP	5	6' 3.5mm stereo M plug to F jack (black)	2.35	2.09	1.89
228507	JVP	4	12' 3.5mm stereo M to M plug (black)	1.95	1.75	1.59
228523	JVP	5	12' 3.5mm stereo M plug to F jack (black)	2.49	2.25	1.95
2077538	♦	5	20' 3.5mm stereo M plug to F jack (black)	2.75	2.49	2.25

## Component Video and Audio Cable

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provide excellent strain relief, easy installation, and identification
- 100%, 0.012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality



Part No.	Description	1	10	25
229403	6' component video RGB and stereo audio cable	\$11.95	\$10.95	\$9.95

## Audio/Video BNC to RCA Cables & Adapter



\* Web Code: AVC

Fully molded nickel connectors. Used for displays that require a single BNC connection from a PAL/NTSC video source.

Part No.	Description	1	10	25
1945057	3' BNC to BNC video cable .. w/ BNC to RCA male adapter	\$3.95	\$3.49	\$2.95
683059	6' BNC to RCA cable (RG-59) ..	3.95	3.49	2.95

- 683059
- 75Ω coaxial cable
  - Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
  - 5 BNCs to HDB15-pin male
  - Color: black

Part No.	Description	1	5	25
73648	6' cable ..	\$14.95	\$13.49	\$11.95
118068	10' cable ..	7.95	6.95	6.49

## Helping You Find What You Need

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## DVI Cables

\* Web Code: EEM

Digital Video Interface (DVI) provides a high-speed digital connection for visual data types that are display technology independent. The DVI specifications meet the needs of all segments of the PC industry and will enable these different segments to unite around one monitor interface standard.



320346/1944265: DVI male digital to DVI male digital

Part No.	Description	1	10	25
320346	Single link 2 meters ..	\$3.95	\$3.49	\$3.15
1944265	Dual link 3 meters 	13.95	12.49	11.25

\* JVP = Jameco ValuePro | MST = Monster | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# HDMI Cables, Adapters, Audio Plugs & Jacks

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY DOWNSIZE

**JAMECO ValuePro**

## HDMI Cables & Adapters

**\*Web Code: DEM**

High Definition Multimedia Interface (HDMI) is the industry supported, uncompressed, all digital audio/video interface. HDMI provides an interface between any audio/video source, such as set-top box, DVD players, A/V receivers, audio/video monitors, DTV, HDTV, and plasma monitor.



1944206

1944214

1944222

1944231

1944249

Part No.	Product No.	Description	1	5	25
1944142	10HM-01128-01R	Male to male, 1 meter	\$10.95	\$9.95	\$8.95
1944151	10HM-01128-02R	Male to male, 2 meters	12.95	11.49	9.95
1944169	10HM-01128-05R	Male to male, 5 meters	17.95	15.95	14.49
2115611	AV22400B-12	HDMI M to DVI M 12 feet	14.95	13.49	11.95
1944177	10HM-15128-01R	Male to DVI-D single link, 1 meter	9.95	8.95	7.95
1944185	10HM-15128-02R	Male to DVI-D single link, 2 meters	11.95	10.95	9.95
1944193	10HM-15128-05R	Male to DVI-D single link, 5 meters	16.95	15.25	13.75
1944206	30HM-15228-M0R	HDMI M to DVI F video adapter	8.95	7.95	6.95
1944214	30HM-15328-M0R	HDMI F to DVI M video adapter	8.95	7.95	6.95
1944222	30HM-01100R	M to M HDMI gender changer	7.49	6.95	6.49
1944231	30HM-01200R	F to M HDMI gender changer	7.49	6.95	6.49
1944249	30HM-01400R	F to F HDMI gender changer/coupler	7.95	7.25	6.49

## Stereo, Phone, Audio Plugs & Jacks

**\*Web Code: AJS**

Interconnects

Part No.	Manufacturer	Product No.	Fig.	Description	Dimensions (mm)	1	10	100
297297	Switchcraft	850X	1	2.5mm mono phone, audio plug, black plastic	25.8L x 6.35 Dia.	\$3.49	\$3.15	\$2.79
281869	Switchcraft	750R	2	3.5mm mono audio plug, plastic	41.5L x 5.7 ID	2.95	2.65	2.39
297060	Switchcraft	170R	3	1/4" commercial phone plug, metal	69.7L x 17.46 Dia.	5.95	5.49	4.95
281754	Switchcraft	250R	4	1/4" mono phone audio plug, plastic	73.7L x 7.6 ID	3.45	3.09	2.79
281762	Switchcraft	267R	5	1/4" commercial phone plug, black plastic	73.7L x 7.6 ID	4.95	4.49	3.95
281789	Switchcraft	297R	6	1/4" stereo phone audio plug, metal	73.7L x 7.6 ID	4.95	4.49	3.95
297123	Switchcraft	236R	7	1/4" stereo phone audio plug, rt. angle, cable mnt.	46.4 x 15.9 ID	6.95	6.25	5.65
281771	Switchcraft	280R	8	1/4" mono phone audio plug, metal	73.7L x 7.6 ID	3.85	3.49	3.15
229876	ValuePro	JR0101BLK	9	RCA plug, metal (black stripes)	61.7L x 7.0 ID	1.95	1.75	1.49
229868	ValuePro	JR0101R	9	RCA plug, metal (red stripes)	61.7L x 7.0 ID	2.25	1.95	1.75
230287	ValuePro	JR0101Y	10	RCA plug, yellow housing, gold plated	61.7L x 7.0 ID	1.49	1.25	1.09
229921	ValuePro	JR1625BLK	11	RCA plug, plastic, black (5 pk)	51.5L x 5.0 ID	1.45	1.29	1.15
229930	ValuePro	JR1625R	12	RCA plug, plastic, red (5 pk)	51.5L x 5.0 ID	1.45	1.29	1.15
281800	Switchcraft	3502A	13	RCA phone plug, metal	33.8L x 5.0 ID	1.95	1.75	1.59
281818	Switchcraft	3502A-R	14	RCA phono audio plug, nickel	42.4 x 7.3 ID	2.25	1.95	1.75
281834	Switchcraft	41R	15	3.5mm audio jack	7.8L x 5.9 Dia.	1.85	1.69	1.49
2114562	Adam Tech	ASJ-40-4A	16	3.5mm stereo jack, PCB mount, open	9.0H x 11.6W x 37.0L	1.15	1.05	.95
2114571	Adam Tech	ASJ-41-5R	17	3.5mm stereo jack, PCB mount, closed	38.5H x 12.6L	1.59	1.45	1.35
568392	Switchcraft	35RAPC4BH3R	18	3.5mm stereo jack, rt. angle horz., threaded†	6.0H x 11.0W x 8.0L	1.49	1.35	1.19
1766180	Switchcraft	35RAPC4BH2R	18	3.5mm stereo jack, rt. angle horz., non-threaded	5.0H x 12.0W x 15.0L	1.69	1.49	1.35
2081334	Shogyo	354-3PY	18	3.5mm mono jack, rt. angle horz., non-threaded	6.1H x 11.9W x 12.0L	1.09	.89	.69
2100291	Shogyo	354-PY (CT)	19	3.5mm mono jack, rt. angle horz., threaded	6.45H x 11.7W x 14.3L	1.19	.99	.79
2081772	Kycon	ST3120-3-WHT	20	3.5mm stereo jack, rt. angle horz., non-threaded	10.45H x 12.0W x 6.8L	.49	.45	.39
1766198	Switchcraft	35RAPC4BV4R	21	3.5mm stereo jack, rt. angle ver., threaded	12.3H x 8.1W x 14.0L	1.75	1.59	1.45
2095373	Various	HTJ-035-22D	22	3.5mm mono jack, rt. angle horz., non-threaded, blk.	10.45H x 10.0W x 14.0L	.99	.89	.79
2095437	ValuePro	J355W	23	3.5mm mono audio jack	10.1H x 8.4W x 17.6L	1.19	.99	.79
2081238	Shogyo	SCJ330	23	3.5mm mono audio jack	10.6H x 9.0W x 21.7L	1.95	1.75	1.49
281738	Switchcraft	11R	24	1/4" mono phone audio jack	12.8L x 9.1 Dia.	1.85	1.69	1.49
296892	Switchcraft	12A	25	1/4" mono phone audio jack, metal	31.7L x 9.4 Dia.	1.79	1.59	1.45
296905	Switchcraft	13B	25	1/4" mono phone audio jack, metal	30.6L x 9.4 Dia.	2.95	2.79	2.65
281746	Switchcraft	12B	25	1/4" stereo phone audio jack	14.7L x 9.1 Dia.	1.95	1.79	1.59
2120209	ValuePro	STJ-.25	26	1/4" stereo phone audio jack, shielded, threaded	20.8L x 16.7W x 16.5H	1.69	1.49	1.35
1581564	Keystone	901R	27	RCA jack, PCB mount, right angle, black	11.8H x 10.6W x 6.8L	.49	.45	.39
220581	ValuePro	KY-006-1(W)	27	RCA jack, PCB mount, white	11.2H x 14.2W x 12.2L	.65	.59	.55
220556	ValuePro	KY-006-1(R)	27	RCA jack, PCB mount, red	11.2H x 14.2W x 12.2L	.65	.59	.55
220572	ValuePro	KY-006-1(B)	27	RCA jack, PCB mount, black	11.2H x 14.2W x 12.2L	.39	.35	.25
220564	ValuePro	KY-006-1(Y)	27	RCA jack, PCB mount, yellow	11.2H x 14.2W x 12.2L	.39	.35	.29
2076359	Various	AJ842G3	28	RCA jack, PCB mount, rt. angle, red/white/yellow (3)	40.6H x 22.9W x 21.6L	.59	.55	.49
2076332	Various	SCJ-0358-YLW	29	RCA jack, PCB mount, yellow	9.9H x 19.1W x 13.0L	.45	.35	.25
169502	Various	SCJ-0358-BLK-R	29	RCA jack, PCB mount, black	10.2H x 21.6W x 12.7L	.55	.49	.45
319249	Velleman	CA066	30	RCA jack, 2 pair stereo, panel mount, red/white	73.7H x 12.2W x 24.9L	.95	.85	.75
159485	Various	CS7021-DN-BLK-R	31	RCA jack, panel mount, black	21.3W x 9.7H	.95	.85	.75
172340	Various	CS7021-DN-RD-R	31	RCA jack, panel mount, red	21.3W x 9.7H	.85	.75	.69

† Closed circuit

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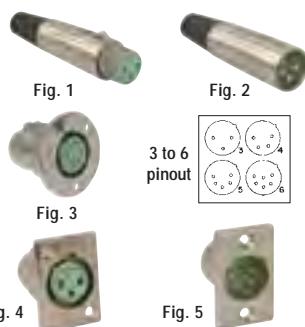
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RoHS compliant product   This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#)

## Microphone (XLR) Connectors

Part No.	Manufacturer	Product No.	Fig.	Description	Dimensions (mm)	1	10	25	★ Web Code: ABV
277026	Switchcraft	A3F	1	3-pin female, metal	82.5 x 5.3 Dia.	\$5.25	\$4.75	\$4.25	
281560	Switchcraft	A3M	2	3-pin male, metal	70.3 x 5.3 Dia.	4.55	3.95	3.65	
297422	Switchcraft	C3F	3	3-pin female, metal, panel mount	36.9 x 36.5 Dia.	7.49	6.95	6.75	
281640	Switchcraft	D3F	4	3-pin female, metal, panel mount	27.0W x 36.3H x 30.6D	5.95	5.39	4.85	
281623	Switchcraft	A6F	1	6-pin female, metal	80.2 x 4.6 Dia.	16.95	14.95	13.95	
281711	Switchcraft	D6M	5	6-pin male, metal, panel mount	27.0W x 36.3H x 30.6D	9.95	8.95	7.95	
319011	ValuePro	250-710	2	3-pin male, metal	70.6L x 7.31D	2.95	2.65	2.39	
319003	ValuePro	250-720	1	3-pin female, metal	81.5L x 7.43D	2.25	1.95	1.75	
319038	ValuePro	250-705	4	3-pin female, metal, panel mount	26.2W x 35.5H x 35.9D	3.45	2.95	2.65	



## Audio Adapters

Part No.	Manufacturer	Cross Ref. No.	Description	NEW MARKED IN PINK	1	10	100	★ Web Code: KBO
309665	ValuePro	251-175	3.5mm stereo F jack to 3.5mm mono M plug		\$.39	\$.35	\$.29	
2115637	Belkin	F8V211TT	3.5mm stereo M 1/4" stereo F jack		.69	.59	.55	
228283	ValuePro	251-120	RCA F jack to mono 1/4" M plug		.69	.59	.55	
228267	ValuePro	251-116	RCA F to F jack coupler, gold plated		.59	.55	.49	
2115629	Belkin	F8V210TT	RCA F to F jack coupler, silver plated		.55	.49	.45	



Interconnects

## AMP CPC Contacts

Type III+ Snap-In Crimp Pins w/ Retention Spring



\* Web Code: LEF

- Finish:  
 A: 30μ" gold over nickel  
 B: Tin-lead  
 C: 15μ" gold over nickel
- Crimp type except \*P/N 526424 (solder type)
- Contact body – brass or phosphor bronze

Part No.	Mfr. P/N	AWG	Finish	Type	1	10
526441	1-66361-1	18-14	A	Pin	\$.49	\$.45
859835	66361-3	18-14	C	Pin	.55	.49
526424	66180-1	18-16	A	Pin*	.85	.75
526432	66181-1	18-16	A	Socket	.95	.85
526459	66103-3	24-20	C	Pin	.49	.45
526563	1-66103-5	24-20	B	Pin	.49	.45
526361	1-66103-7	24-20	A	Pin	.59	.49
526379	66105-3	24-20	C	Socket	.69	.59
526504	1-66105-6	24-20	B	Socket	.49	.45

Blue Part No. = Limited Quantity Available

## Size 20DF Contacts

- Contact body: brass
- Finish: A: 30μ" gold over nickel; B: gold flash over nickel



Order in multiples of 10

Part No.	Mfr. P/N	AWG	Finish	Type	10	100
223221	1-66505-0	28-24	B	Socket†	\$.19	\$.15
223247	74525-6	26-22	A	Socket†	.19	.15
223298	66504-9	24-20	A	Socket	.19	.15
223255	1-66504-0	24-20	B	Socket	.19	.15

†With insulation support



## AMP

## CPC Circular Plastic Connectors

Series 1 — Standard density, signal and low-current applications

- Accepts type III+; high-current type II and subminiature coax contacts
- Voltage rating: 600V (UL)



### Receptacles

Blue Part No. = Limited Quantity Available

Part No.	Mfr. P/N	Size/Pos	Gender	1	10
495091	206429-1	11-4	Reverse	\$2.95	\$2.65
495218	206430-1	11-4	Reverse	1.95	1.75
495162	206061-1	11-4	Standard	2.25	1.95
495293	211401-1	13-7	Standard	4.95	4.49
421382	206036-1	17-16	Standard	2.59	2.35
495146	206043-1	17-14	Reverse	2.59	2.29

### Plugs

Part No.	Mfr. P/N	Size/Pos.	Gender	1	10
495322	206037-1	17-16	Standard	\$3.49	\$3.15
495031	206044-1	17-14	Reverse	2.95	2.65
495103	206708-1	13-9	Standard	2.95	2.65
421374	211399-1	13-7	Standard	2.95	2.65
495082	206060-1	11-4	Standard	2.79	2.49

## AMP Circular Cable Clamps

Provides strain relief and can be used in all series receptacles and plugs.

- Material:  
 thermoplastic black, UL94V-0 rated (plastic); zinc alloy (metal)

Part No.	Mfr. P/N	Material	Shell O.D.(max.)	1	10
494039	206062-1	Plastic	.329"	\$3.75	\$3.35
494063	206070-1	Plastic	.453"	3.75	3.35
494055	206966-1	Plastic	.453"	3.75	3.35
494101	208945-5	Metal	.562"	7.95	6.95
494119	208945-7	Metal	.750"	10.95	9.95



\* Web Code: PCB

## AMP Extraction Tool

- Works with general contacts of CPC, multimate and MATE-N-LOCK II contacts

Part No.	Mfr. Part No.	1	10
841838	305183	\$17.95	\$15.95



## D-Sub Pin Insertion/Extraction Tools

19094/527582/223335:  
 Plastic body; metal tips

223327:

Handle with .050" hex wrench and exchangeable tips

Part No.	Mfr.	Product No.	1	10
19094	ValuePro	500-200	\$3.95	\$3.49
527582	AMP	91067-1	7.49	6.75
223335	AMP	91067-2	7.49	6.75
223327	AMP	91285-1	19.95	17.95



## D-Sub Crimping Tool

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins & sockets, D-sub 26-28 AWG wire; butt-insulated connectors, 22-26 AWG wire; telephone spade lugs, 22-26 AWG wire and non-insulated connectors, 20-22 AWG & 14-18 AWG
- Coiled spring return • Size: 7.3" L x 1.5" W

Part No.	Mfr. Part No.	1	5	25
99443	HT202A	\$8.95	\$7.95	\$6.95



## AMP AMPLIMITE™ .050" Series 2 Type B Header

- Right angle plug
- Housing: PBT black
- Cap shields: zinc, nickel over copper
- Contacts: phosphor bronze, 0.76μm gold in contact area, tin in solder area

Part No.	Mfr. P/N	Postions	1	5
749417	2-5174225-5	68	\$21.95	\$19.95



\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

67

# D-Subminiature Connectors

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## D-Subminiature Connectors

### Right Angle PCB Mount ★ Web Code: FAN

Metal .318" Setback – Tin plated short style



Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
1952839	Foxconn	D-SUB-9M+†	9	M	\$.55	\$.45	\$.35
104943	ValuePro	DB9P318R	9	M	.69	.59	.49
614441	AMP	747840-4†	9	M	1.49	1.35	1.19
2076682	Various	DB9S318	9	F	.65	.55	.45
104952	ValuePro	DB9S318R	9	F	.75	.65	.55
614504	AMP	747844-4†	9	F	1.95	1.75	1.49
614125	AMP	745781-4	9	F	1.95	1.75	1.55
71124	ValuePro	DA15P318†	15	M	.69	.59	.49
71125	ValuePro	DA15P318R†	15	M	.79	.69	.59
168743	ValuePro	HDDB15S318*	15	M	.59	.55	.49
77956	ValuePro	DA15S318	15	F	.79	.69	.59
1952273	Kycon	HDDSUB-15S†*	15	F	.49	.45	.39
71466	ValuePro	HDDB15S318R*	15	F	.89	.79	.69
614539	AMP	747845-4†	15	F	1.75	1.55	1.39
15150	ValuePro	DB25P318R	25	M	.75	.65	.55
614230	AMP	745238-4	25	M	3.95	3.69	3.29
265439	Various	DSUB-25F	25	F	.75	.65	.55
15182	ValuePro	DB25S318R	25	F	.85	.75	.65
446483	Cinch	DBKL-25SAT-E25†	25	F	.75	.65	.59
614547	AMP	747846-3†	25	F	1.25	1.09	.95
614141	AMP	745783-4	25	F	3.19	2.89	2.59
71706	ValuePro	DC37P318†	37	M	1.15	.95	.89
78182	ValuePro	DC37S318+†	37	F	1.19	1.05	.95

\* High Density    † Without female jack screws (P/N 172603, pg 69)

### Metal Solder-Cup

#### ★ Web Code: EAB

203799



Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
15748	ValuePro	1001-9P-RR	9	M	\$.55	\$.45	\$.35
222990	AMP	747904-2	9	M	2.25	1.95	1.75
222957	AMP	747904-4†	9	M	2.25	1.95	1.75
15771	ValuePro	500-109	9	F	.65	.55	.45
223052	AMP	747905-2	9	F	2.25	1.95	1.75
223036	AMP	747905-4†	9	F	2.75	2.35	2.09
15035	ValuePro	1001-15P-RR	15	M	.69	.55	.45
15078	ValuePro	1002-15P-RR*	15	M	.95	.75	.59
223001	AMP	747908-2	15	M	2.89	2.55	2.25
15052	ValuePro	1001-15S-RR	15	F	.75	.59	.49
164823	ValuePro	1002-15S-RR*	15	F	.95	.75	.59
223061	AMP	747909-2	15	F	3.95	3.59	3.29
15115	ValuePro	1001-25P-RR	25	M	.95	.79	.69
2095091	Amphenol	EDD25ST	25	M	.75	.65	.55
223010	AMP	747912-2	25	M	3.25	2.95	2.65
222973	AMP	747912-4†	25	M	2.95	2.69	2.29
458126	Cinch	DBH-25P-RRT	25	M	3.95	3.49	2.95
15157	ValuePro	500-125	25	F	.95	.79	.69
223079	AMP	747913-2	25	F	3.75	3.15	2.65
223044	AMP	747913-4†	25	F	3.95	3.49	2.95
203799	ValuePro	1002-26P*	26	M	.85	.69	.55
203782	ValuePro	1002-26S-RR*	26	F	.75	.65	.55
639630	Amphenol	EDC37P	37	M	.85	.65	.55
15473	ValuePro	1002-37P-R	37	M	1.35	1.15	.95
222981	AMP	747916-4†	37	M	3.95	3.49	2.95
482724	Amphenol	EDC37S	37	F	.95	.75	.55
15500	ValuePro	GC028-RR	37	F	1.25	1.09	.95
223087	AMP	747917-2	37	F	5.49	4.95	3.49
482732	Amphenol	EDD50P	50	M	.75	.65	.55
15676	ValuePro	GC029-RR	50	M	1.95	1.69	1.49
482741	Amphenol	EDD50S	50	F	.95	.75	.55
15691	ValuePro	GC030	50	F	1.29	1.15	.95

\* High Density    † Zinc plated shell    †† With standard mounting hole

### Right Angle PCB Mount

Metal .590" Set Back – Tin plated long style

#### ★ Web Code: HAN



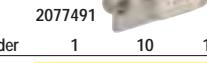
• Current rating: 1A

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
104970	ValuePro	DB9P590R	9	M	\$.95	\$.85	\$.75
104978	ValuePro	DB9S590R	9	F	.95	.85	.75
104985	Astron	DA15P590†	15	M	.65	.55	.49
104993	ValuePro	DA15S590+†	15	F	.65	.55	.49
189624	Various	DB25P590††	25	M	.75	.65	.59
105006	ValuePro	DB25P590R	25	M	1.29	1.15	.95
105013	ValuePro	DB25S590+†	25	F	1.29	1.09	.85

† Without female jack screws (P/N 172603, pg 69)    †† Without board tabs

### Metal Straight PCB Mount

#### ★ Web Code: SBK



Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
111692	ValuePro	DB9PPCBR	9	M	\$.55	\$.45	\$.35
15781	ValuePro	DB9SPCBR	9	F	.59	.49	.39
176760	ValuePro	DA15PPCB	15	M	.65	.55	.45
2077491	Various	DAHD15SPCBR*	15	F	.55	.45	.39
176752	ValuePro	DA15SPCBR	15	F	.65	.55	.45
15123	ValuePro	DB25PPCBR	25	M	.75	.65	.55
15165	ValuePro	DB25SPCB	25	F	.79	.69	.59
180013	ValuePro	DC37PPCB	37	M	.79	.69	.59
180021	ValuePro	DC37SPCB	37	F	1.25	1.09	.95

\* High Density

### Crimp-Type

#### ★ Web Code: UBR



Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
73189	ValuePro	500-010+	9	M	\$.49	\$.39	\$.35
222640	AMP	205204-1	9	M	1.15	.95	.85
73197	ValuePro	500-110	9	F	.55	.45	.35
222842	AMP	205203-3R	9	F	.85	.75	.65
222691	AMP	205203-1	9	F	1.09	.95	.75
73200	ValuePro	G37-15	15	M	.55	.45	.35
180882	ValuePro	1006-15P-RR*	15	M	.85	.75	.65
222703	AMP	205205-1R	15	M	.79	.69	.65
222658	AMP	205206-1	15	M	.95	.85	.75
73219	ValuePro	G1G125-RR	15	F	.65	.55	.45
180890	ValuePro	1006-15S*	15	F	.65	.55	.49
38789	ValuePro	500-027	25	M	.65	.55	.45
222818	AMP	207464-2R	25	M	.79	.65	.55
38771	ValuePro	500-127	25	F	.65	.55	.45
222922	AMP	207463-1R	25	F	.95	.85	.75

\* High Density

### IDC Ribbon Cable

- Contact material: phosphor bronze
- Terminates with standard D-type connectors

#### ★ Web Code: MAP



Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
109226	ValuePro	MDB9P	Metal	9	M	\$1.75	\$1.49	\$1.25
12504	ValuePro	CDB9P	Plastic	9	M	2.25	1.95	1.75
109218	ValuePro	MDB9SR	Metal	9	F	1.85	1.65	1.45
12521	ValuePro	CDB9SR	Plastic	9	F	2.49	2.25	1.95
614387	AMP	747318-4††	Plastic	9	F	4.49	3.95	3.49
1577961	3M	8309-6000R	Metal	9	F	3.95	3.69	3.29
614328	AMP	747303-4R	Metal	9	F	4.95	4.49	3.95
117382	ValuePro	MDA15P	Metal	15	M	1.75	1.49	1.29
12299	ValuePro	CDA15P	Plastic	15	M	1.49	1.25	1.09

†† With standard mounting holes

*Continued on next page*

RoHS compliant product    This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).

## D-Subminiature Connectors (Continued)

### IDC Ribbon Cable (Continued)

Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
116012	ValuePro	MDA15S <sup>A</sup>	Metal	15	F ....	\$1.95	\$1.75	\$1.49
12319	ValuePro	CDA15S	Plastic	15	F ....	1.49	1.25	1.09
115984	ValuePro	MDB25P <sup>A</sup>	Metal	25	M ....	2.39	2.09	1.79
614344	AMP	747306-2	Metal	25	M ....	4.95	4.49	3.95
12335	ValuePro	CDB25P	Plastic	25	M ....	1.89	1.75	1.49
115976	ValuePro	MDB25S <sup>A</sup>	Metal	25	F ....	2.25	1.95	1.75

### IDC Ribbon Cable (Continued)

\* Web Code: MAP

Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
12432	ValuePro	CDB25S <sup>A</sup>	Plastic	25	F ....	\$2.25	\$1.95	\$1.75
115992	ValuePro	MDC37P <sup>A</sup>	Metal	37	M ....	2.95	2.65	2.35
614336	AMP	747306-1 <sup>A</sup>	Metal	37	M ....	7.95	7.49	6.95
12466	ValuePro	CDC37P	Plastic	37	M ....	2.95	2.69	2.39
116004	ValuePro	MDC37S <sup>A</sup>	Metal	37	F ....	3.49	2.95	2.49
12483	ValuePro	CDC37S <sup>A</sup>	Plastic	37	F ....	2.95	2.69	2.29

## D-Sub Solder & Crimp Contacts

\* Web Code: JDC



### Female Solder Contact - Fig. 1

Order in multiples of 10

Part No.	Mfr.	Product No.	AWG	10	100	500
223319	AMP	66569-3 <sup>A</sup>	18 ....	.35	.29	.25

### Male Solder Contact - Fig. 2

Order in multiples of 10

Part No.	Mfr.	Product No.	AWG	10	100	500
234982	AMP	66570-3 <sup>A</sup>	28-24	.29	.25	.19

### Female Crimp Contacts - Fig. 3

Order in multiples of 10

Part No.	Mfr.	Product No.	AWG	10	100	1000
43369	ValuePro	500-155	28-24	\$1.12	\$0.09	\$0.08
185412	ValuePro	1006-PS <sup>T</sup>	28-24	....09	.07	.05
223221	AMP	1-66505-0 <sup>A</sup>	28-24	....19	.15	.12
223239	AMP	66683-4 <sup>A</sup>	28-24	....25	.19	.15
223247	AMP	745253-6 <sup>A</sup>	26-22	....19	.15	.12
860001	AMP	66504-4 <sup>A</sup>	24-20	....09	.08	.07
223298	AMP	66504-9 <sup>A</sup>	24-20	....19	.15	.12
223255	AMP	1-66504-0 <sup>A</sup>	24-20	....19	.15	.12
223271	AMP	5-66504-7	24-20	....19	.15	.12

<sup>A</sup> Use with 180890, pg 68

## AMP D-Sub Enclosure Kit

- Kit includes: (2) 4-40 jack screw (zinc alloy), lack thermoplastic connector insert, steel tin plated inner and outer shell, black PVC enclosure, 62-pin male D-sub connector



Part No.	Mfr.	Part No.	1	10	100
837986		748476-1 <sup>A</sup>	.....	\$9.95	\$8.95

## .050" (1.27mm) Pitch LFH™ Matrix 50 Shielded Receptacle

### 60 Circuit, Vertical

- Same size as 15-pin D-sub for standard panel cut-outs and hardware use
- Volt./current: 40V @ 1A
- Contact resistance: 20mΩ max.
- Insulation resistance: 100MΩ min.
- Housing: glass filled polymer, UL94V-0
- Contact: beryllium copper alloy
- Plating: 30μ" min. gold over nickel in contact area, 100μ" min. tin/lead over nickel in PC tail area, 150μ" min. bright tin over nickel all over copper flash on shields

Part No.	Mfr.	Part No.	1	10
802222		70928-0002 <sup>A</sup>	.....	\$11.95



\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

## Hardware for D-Sub Connector Hoods



### 4-40 Screw Sets

102808: (10) 4-40 screw (.385" L) and retainer set

16548: (10) 4-40 x .187" jack screw (.31" L thread), washer, lock washer and nut set

444912: (2) washers, lockwasher, hex nut and screw locks are steel with zinc plating and yellow chrome finish

1575931: (2) nut-4-40 UNC, lock washer, 0.03" dia. spacer, jack socket screw

Part No.	Mfr.	Prod. No.	Plating*	1	10	100
102808	ValuePro	14-553	A ...	\$55	\$49	\$45
16548	ValuePro	14-522 <sup>A</sup>	A .....	.55	.49	.45
444912	Cinch	D20418-39	C ...	1.69	1.49	1.35
1575931	3M	3341-1S	A ...	2.49	2.25	1.95



### 4-40 x .187" Jack Screws

\* Order in multiples of 10

Part No.	Mfr.	Length	Plating*	1	10	100
839252	AMP <sup>A</sup>	.250"	A ...	\$29	\$25	\$19
169931	ValuePro <sup>A</sup>	.275"	A .....	*	.19	.15
172603	ValuePro	.315"	A .....	*	.19	.15
2100283	ValuePro <sup>A</sup>	.315"	D .....	*	.19	.15
1582209	Keystone <sup>A</sup>	.315"	C .....	*	.19	.15
1582508	Keystone <sup>A</sup>	.315"	B .....	.29	.25	.19
102816	ValuePro	.435"	B .....	.45	.39	.35
108987	ValuePro <sup>A</sup>	.515"	A .....	.49	.45	.39

### 4-40 x .187" Standoffs

175636: ValuePro .187" B ..... \* \$19 | \$15 |

102796: ValuePro<sup>A</sup> .235" A ..... 35 .29 .25

### 4-40 Thumbscrews

125015: ValuePro<sup>A</sup> 1.65" A ... \$29 \$25 \$19

614424: AMP 1.92" A ... 1.49 1.29 1.15

\* A: Zinc, clear chromate B: Chrome C: Zinc, yellow chromate

D: Chrome with lock washer

## 25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors.

Kit includes: Backshell and hardware

Part No.	Description	1	10	100
34091	25-pin hood .....	\$95	\$85	\$75

\* D-Sub Junction Shells Online — Enter Web Code JEM

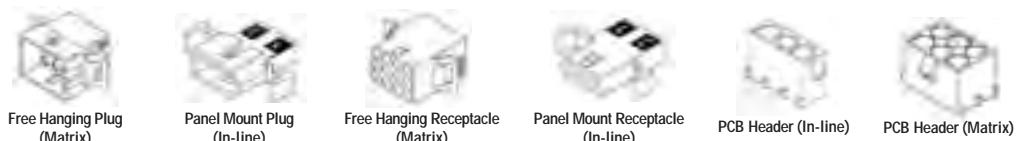
3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

# Power Connectors & Contacts

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

**molex®** JAMECO ValuePro

- 5.03mm (.198") pitch
- Passive friction lock
- Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C
- Contact retention to housing: 20 lbs. min.



## molex® .062" (1.57mm) Plugs

Part No.	Mfr. No.	Circuits	Type	Pattern	Mating Conn.	* Order in multiples of 10		
						1	10	100
224477	03-06-2011A	1	Free hanging	In-line	224397 .....	*	\$0.07	\$0.05
224485	03-06-2023A	2	Free hanging	In-line	224400 .....	*	.15	.12
229948	03-06-2024A	2	Panel mount	In-line	229956 .....	*	.15	.12
224493	03-06-2032A	3	Free hanging	In-line	224418 .....	.39	.35	.25
229964	03-06-2033A	3	Panel mount	In-line	229972 .....	*	.19	.15
224506	03-06-2042A	4	Free hanging	In-line	224426 .....	*	.19	.15
224514	03-06-2044A	4	Free hanging	Matrix	224434 .....	.39	.35	.29
224522	03-06-2061A	6	Free hanging	Matrix	224442 .....	*	.19	.15
230041	03-06-2062A	6	Panel mount	Matrix	230050 .....	*	.19	.15
224531	03-06-2092A	9	Free hanging	Matrix	224451 .....	.29	.25	.19

## molex® .062" (1.57mm) Receptacles

Part No.	Mfr. No.	Circuits	Type	Pattern	Mating Conn.	* Web Code: HBL		
						1	10	100
224397	03-06-1011A	1	Free hanging	In-line	224477 .....	*	\$0.07	\$0.05
224400	03-06-1023A	2	Free hanging	In-line	224485 .....	*	.15	.12
229956	03-06-1022A	2	Panel mount	In-line	229948 .....	*	.15	.12
224418	03-06-1032A	3	Free hanging	In-line	224493 .....	*	.15	.12
229972	03-06-1038A	3	Panel mount	In-line	229964 .....	*	.19	.15
224426	03-06-1042A	4	Free hanging	In-line	224506 .....	*	.19	.15
224434	03-06-1044A	4	Free hanging	Matrix	224514 .....	.39	.35	.25
224442	03-06-1062A	6	Free hanging	Matrix	224522 .....	.35	.29	.25
230050	03-06-1061A	6	Panel mount	Matrix	230041 .....	.35	.29	.25
224451	03-06-1092A	9	Free hanging	Matrix	224531 .....	.35	.29	.25

## molex® .084" (2.13mm) Plugs

Part No.	Cross Ref. No.	Circuits	Type	Pattern	Mating Conn.	* Order in multiples of 10		
						1	10	100
379276	50-84-1060A	6	Free hanging	Matrix	379348 .....	*	\$0.15	\$0.12
379305	50-84-1150A	15	Free hanging	Matrix	379372 .....	*	.19	.15

## molex® .084" (2.13mm) Receptacles

Part No.	Cross Ref. No.	Circuits	Type	Pattern	Mating Conn.	* Order in multiples of 10		
						1	10	100
379381	10-84-4020A	2	PCB	In-line	— .....	*	\$0.15	\$0.12
379401	10-84-4030A	3	PCB	In-line	— .....	*	.15	.12
379428	10-84-4040A	4	PCB	In-line	— .....	*	.19	.15
379444	10-84-4060A	6	PCB	Matrix	— .....	*	.19	.15
379461	10-84-4090A	9	PCB	Matrix	— .....	.35	.29	.25
379487	10-84-4120A	12	PCB	Matrix	— .....	.39	.35	.33

## molex® .084" (2.13mm) Vertical Male Headers

Part No.	Cross Ref. No.	Circuits	Type	Pattern	Mating Conn.	* Web Code: CBL		
						1	10	100
379321	50-84-2030A	3	Panel mount	In-line	— .....	*	\$0.09	\$0.07
379330	50-84-2040A	4	Panel mount	In-line	— .....	*	.09	.07
379348	50-84-2060A	6	Panel mount	Matrix	379276 .....	*	.09	.07
379364	50-84-2120A	12	Panel mount	Matrix	— .....	*	.17	.15
379372	50-84-2150A	15	Panel mount	Matrix	379305 .....	*	.19	.15

## molex® .084" (2.13mm) Vertical Female Headers

Part No.	Cross Ref. No.	Circuits	Type	Pattern	Mating Conn.	* Order in multiples of 10		
						1	10	100
379399	10-84-4022A	2	PCB	In-line	— .....	*	\$0.15	\$0.12
379410	10-84-4032A	3	PCB	In-line	— .....	*	.15	.12
379436	10-84-4042A	4	PCB	In-line	— .....	*	.19	.15
379452	10-84-4062A	6	PCB	Matrix	— .....	*	.19	.15
379479	10-84-4092A	9	PCB	Matrix	— .....	.29	.27	.25
379495	10-84-4122A	12	PCB	Matrix	— .....	.39	.35	.33
379516	10-84-4152A	15	PCB	Matrix	— .....	.49	.45	.39

## molex® .084" (2.13mm) Bulk (Continued)

Part No.	Mfr.	Cross Ref. No.	Description	Gender	AWG	Order in multiples of 10		
						10	100	500
379524	ValuePro	02-08-1002B	Crimp type	F	16-20	....	\$0.09	\$0.07
401306	ValuePro	02-08-1002A	Crimp type	F	18-22	....	.09	.07
401322	ValuePro	02-08-1004A	Crimp type	F	18-22	....	.09	.07
401357	ValuePro	02-08-2004SC	Crimp type	M	12-14	....	.09	.07
401373	ValuePro	02-08-2004LC	Crimp type	M	12-14	....	.09	.07
379541	ValuePro	02-08-2004SB	Crimp type	M	16-20	....	.09	.07
401349	ValuePro	02-08-2004SA	Crimp type	M	18-22	....	.09	.07

## molex® .093" (2.36mm) Bulk

Part No.	Mfr.	Cross Ref. No.	Description	Gender	AWG	Order in multiples of 10		
						10	100	500
224207	Molex	02-09-2118A	Crimp type	M	18-22	....	\$0.12	\$0.09
224215	Molex	02-09-1119A	Crimp type	F	18-22	....	.12	.09
224223	Molex	02-09-2103A	Crimp type	M	14-20	....	.12	.09
224231	Molex	02-09-1104A	Crimp type	F	14-20	....	.12	.09
224240	Molex	02-09-2133A	Solder tail	M	—	....	.15	.09
224258	Molex	02-09-1134A	Solder tail	F	—	....	.15	.09

## molex® .084" (2.13mm) Bulk

Part No.	Mfr.	Cross Ref. No.	Description	Gender	AWG	10	100	500
401314	ValuePro	02-08-1002C	Crimp type	F	12-14	....	\$0.09	\$0.07
401331	ValuePro	02-08-1004C	Crimp type	F	12-14	....	.09	.07

\* RoHS compliant product   + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).

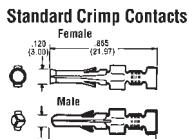
## molex® .093" Power Connector Kits

Kit contains mating sets of housings and pins.

- Voltage: 250VAC • Temp. range: -40°C to +105°C
- 142181: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts • Current: 12A
- 142201: • 2 ea. 4-pin plugs & receptacles, 10 ea. female & male contacts • Current: 9A



**\* Web Code: CAV**



**Includes:** Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

Part No.	Mfr. Part No.	Description	1	10	100
142181	1545	2-pin kit .....	\$4.49	\$3.95	\$3.49
142201	1490	4-pin kit .....	4.49	3.95	3.49

## .098" (2.49mm) Pitch AT Power Connectors

**\* Web Code: QAT**



- Voltage rating: 250V AC/DC
- Current rating: 7A AC/DC
- Temperature range: -25°C to 85°C
- Withstanding volt.: 1500V/min.
- Insulation resistance: 1000MΩ min.
- For use with motherboards and power supplies • Material: nylon
- 78300: • Size: 0.93" L x 0.37" W x 0.57" H
- Material of post: tin-plated brass
- Diameter of post: 0.09"
- 78327: • Size: 0.94" L x 0.25" W x 0.74" H

Part No.	Description	1	10	100
78300	6-pin male header .....	\$.29	\$.25	\$.22
78327	6-pin female housing  .....	.29	.25	.22

## Hand Crimp Tools

Designed to crimp terminals, strip and cut wires, and cut bolts. For Molex .062" & .093" crimp pin terminals and KK® series on page 75.



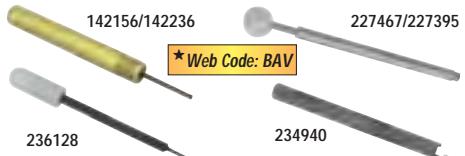
**\* Web Code: GBU**

308030: Cuts & strips 14-24 AWG wires

227491: Cuts & strips 18-30 AWG wires

Part No.	Mfr. Part No.	Length	Color	1	5
308030	W-HT-1919	8.3" L	Red .....	\$14.95	\$13.95
227491	W-HT-1921	8.3" L	Yellow .....	14.95	13.95

## Connector Extraction Tools



**\* Web Code: BAV**

© Blue Part No. = Limited Quantity Available

**\* Jumpers Available Online — Enter Web Code GAQ**

**\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

## .118" Pitch ATX Power Connectors

**\* Web Code: FEM**

### For Motherboards and Power Supplies

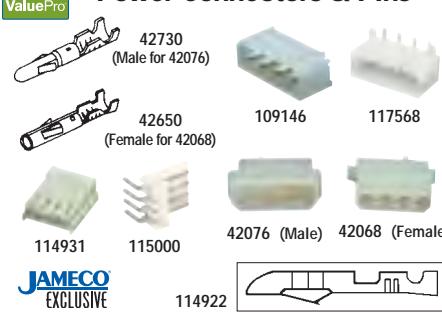
- Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- 147379: Material: nylon 66, UL-94VO
- Material of post: tin-plated brass • Diameter of post: 0.045"
- 147387: Material: nylon 66, UL-94VO
- 147395: Material: tin-plated brass



**\* Order in multiples of 10**

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
147379	20-pin male connector	1.7"	0.4"	0.6"	—	—	\$.59	\$.55	\$.49	\$.45
147387	20-pin housing connector	1.7"	0.4"	0.8"	—	147395	.59	.55	.49	.45
147395	Power terminal pin, F	0.59"	—	—	0.068"	147387	*	.15	.12	.09

## Power Connectors & Pins



### Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

### Crimp Pin Specifications:

- Material: tin plated brass
- Current rating: 1.5A
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99443, pg 161

**\* Web Code: KAP**

## .200" – For 5.25" Disk Drives & Power Supplies

### 42076 & 42068 Connector Housings:

- External key bar indicates pin 1
- Extraction tools, P/Ns 131887 & 131879 (see below)
- Keyed mating connectors

**\* Order in multiples of 10**

Part No.	Description	1	10	100
109146	4-pin male vert. PCB mtg  .....	\$.75	\$.65	\$.59
117568	4-pin male PCB mtng, horiz. edge mtg  .....	.95	.85	.75
42076	4-pin male housing  .....	*	.12	.09
42068	4-pin female housing  .....	*	.19	.15
42730	Male crimp pin for 42076  .....	*	.12	.09
42650	Female crimp pin for 42068  .....	*	.09	.07

## .100" – For 3.5" Disk Drives & Power Supplies

**\* Order in multiples of 10**

Part No.	Description	1	10	100
114931	4-pin female housing  .....	\$.29	\$.22	\$.15
114922	Female crimp pin for 114931  .....	*	.12	.09
115000	4-pin male rt. angle PCB mounting  .....	.39	.35	.29

## Extraction Tools for Crimp Terminals

- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5"
- See above for crimp pins

131887: Male tool for 42730, above

131879: Female tool for 42650, above

Part No.	Cross Ref. No.	1	5
131887	HT319C .....	\$9.95	\$8.95
131879	HT319B  .....	9.95	8.95

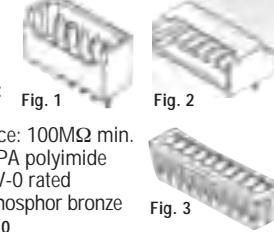
147379

147387

147395

**\* Order in multiples of 10**

## .049" (1.25mm) Pitch Headers and Housings



### Shrouded Vertical Headers (Fig. 1)

Part No.	Cross Ref. No.	Circuits	10	100	500
420339	53047-0210R	2 .....	\$.15	\$.12	\$.09
420347	53047-0310R	3 .....	.15	.12	.09
420363	53047-0510R	5 .....	.15	.12	.09
420371	53047-0610R	6 .....	.15	.12	.09
420380	53047-0710R	7 .....	.15	.12	.09

### Shrouded Right-Angle Headers (Fig. 2)

Part No.	Cross Ref. No.	Circuits	10	100	500
420427	53048-0210R	2 .....	\$.15	\$.12	\$.09
420435	53048-0310R	3 .....	.15	.12	.09
420443	53048-0410R	4 .....	.15	.12	.09
420451	53048-0510R	5 .....	.15	.12	.09
420460	53048-0610R	6 .....	.15	.12	.09
420486	53048-0810R	8 .....	.15	.12	.09
420507	53048-1010R	10 .....	.19	.15	.12

### Housings (Fig. 3)

Part No.	Cross Ref. No.	Circuits	10	100	500
420241	51021-0200R	2 .....	\$.05	\$.04	\$.03
420259	51021-0300R	3 .....	.05	.04	.03
420267	51021-0400R	4 .....	.05	.04	.03
420275	51021-0500R	5 .....	.05	.04	.03
420283	51021-0600R	6 .....	.05	.04	.03
420291	51021-0700R	7 .....	.05	.04	.03
420321	51021-1000R	10 .....	.05	.04	.03

## molex® Female Crimp Terminals

### For above housings

Part No.	Mfr. Part No.	AWG	10	100	500
668457	50079-8100R	26-28 ..	\$.09	\$.08	\$.07
668473	50058-8100R	28-32 ..	.12	.09	.07

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# Headers, Housings & IDC Connectors

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN



## .079" (2.00mm) Pitch Headers and Housings

- Voltage rating: 125V
- Contact resistance: 20mΩ max.
- Insulation resistance: 1000MΩ min.
- Housing material: PBT polyester
- Dielectric withstand voltage: 250VAC/1 min.



Fig. 1



Fig. 2



Fig. 3



Fig. 4

\* Order in multiples of 10

### Dual Row Vertical Headers (Fig. 1)

Part No.	Cross Ref. No.	Circuits	1	10	100
378521	87758-0416R	4	.....*	\$.12	\$.09
378556	87758-1016R	10	....29	.25	.22
378572	87758-1416R	14	....39	.35	.33
378581	87758-1616R	16	....35	.29	.25
378599	87758-1816R	18	....35	.29	.25
378610	87758-2216R	22	....35	.33	.29
378628	87758-2416R	24	....45	.39	.35
378652	87758-3016R	30	....55	.49	.45
378708	87758-4016R	40	....65	.59	.55
378724	87758-4416R	44	....75	.65	.55
378759	87758-5016R	50	....85	.75	.65

### Right-Angle Headers (Fig. 2)

Part No.	Cross Ref. No.	Circuits	1	10	100
378775	87760-0616R	6	.....*	\$.19	\$.17
378783	87760-0816R	8	.....*	.19	.17
378804	87760-1216R	12	....35	.33	.29
378812	87760-1416R	14	....39	.36	.33
378821	87760-1616R	16	....45	.39	.35
378839	87760-1816R	18	....45	.42	.39
378847	87760-2016R	20	....35	.29	.25

### Housings w/o Polarizing Key (Fig. 3)

Part No.	Cross Ref. No.	Circuits	1	10	100
377991	51110-0850R	8	.....*	\$.07	\$.06
378003	51110-1050R	10	.....*	.12	.09
378011	51110-1250R	12	.....*	.12	.09
378020	51110-1450R	14	.....*	.12	.09
378038	51110-1650R	16	.....*	.15	.12
378046	51110-1850R	18	.....*	.15	.12
378054	51110-2050R	20	.....*	.19	.17
378062	51110-2250R	22	.....*	.19	.17
378071	51110-2450R	24	.....*	.19	.17
378089	51110-2650R	26	.....*	.19	.17
378097	51110-2850R	28	.....*	.19	.17
378100	51110-3050R	30	.....*	.19	.17

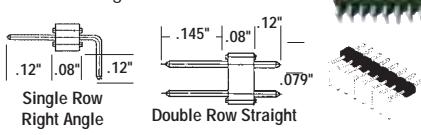
### Housings w/ Polarizing Key (Fig. 4)

Part No.	Cross Ref. No.	Circuits	1	10	100
378142	51110-0851R	8	.....*	\$.09	\$.07
378151	51110-1051R	10	.....*	.15	.12
378169	51110-1251R	12	.....*	.15	.12
378177	51110-1451R	14	.....*	.15	.12
378185	51110-1651R	16	.....*	.15	.12
378193	51110-1851R	18	.....*	.19	.17
378206	51110-2051R	20	.....*	.19	.17
378214	51110-2251R	22	.....*	.19	.17
378222	51110-2451R	24	.....*	.19	.17
378231	51110-2651R	26	.....*	.19	.17
378249	51110-2851R	28	....29	.25	.22
378257	51110-3051R	30	....29	.25	.22

## .079" (2.00mm) Pitch Male Headers

- Solder to PC boards for instant plug-in access via shorting blocks (pg 74)
- Insulator: UL94V-0 polyester
- Contact material: phosphor bronze
- Temperature range: -55°C to +120°C
- .025" square posts on a .100" x .100" matrix
- Use with crimp connector housing, pg 81
- Current rating: 1 amp
- Contact area: gold

★ Web Code: VMH



\* Order in multiples of 10

## .100" (2.54mm) IDC Connectors



Fig. 1



ValuePro

ValuePro

ValuePro

- Voltage rating: 250VAC
- Housing: UL94V-2 nylon
- Contact material: phosphor bronze
- Plating: tin

\* Order in multiples of 10

### Closed-End Style

#### Without Polarizing Tabs (Fig. 1)

Part No.	Product No.	Pos.	AWG Color	1	10	100
345631	640440-5	5	22 Red	.....*	\$.15	\$.12
345640	640440-6	6	22 Red	.....*	.15	.12
345738	640441-6	6	24 White	.....*	.15	.12
345746	640441-7	7	24 White	.....*	.15	.12
345771	1-640441-0	10	24 White	.....*	.19	.17
345800	1-640442-4	4	26 Blue	.....*	.15	.12

#### With Polarizing Tabs (Fig. 2)

Part No.	Product No.	Pos.	AWG Color	1	10	100
345973	643813-3	3	22 Red	.....*	.12	.09
345990	643813-5	5	22 Red	.....*	.15	.12
346028	643813-8	8	22 Red	.....*	.19	.17
346044	1-643813-0	10	22 Red	.....*	.19	.17
346087	643814-5	5	24 White	.....*	.12	.09
346095	643814-6	6	24 White	.....*	.12	.09
346108	643814-7	7	24 White	.....*	.15	.12
346116	643814-8	8	24 White	.....*	.15	.12

### Feed-Thru Style

#### Without Polarizing Tabs (Fig. 3)

Part No.	Product No.	Pos.	AWG Color	1	10	100
346327	640620-2	2	22 Red	.....*	\$.15	\$.12
346343	640620-4	4	22 Red	.....*	.15	.12
346351	640620-5	5	22 Red	.....*	.15	.12
346360	640620-6	6	22 Red	.....*	.19	.17
346378	640620-7	7	22 Red	.....*	.19	.17
346394	640620-9	9	22 Red	.....*	.19	.17
346407	1-640620-0	10	22 Red	.....*	.19	.17
346423	640621-3	3	24 White	.....*	.15	.12
346440	640621-5	5	24 White	.....*	.15	.12
346458	640621-6	6	24 White	.....*	.19	.17
346474	640621-8	8	24 White	.....*	.19	.17
346482	640621-9	9	24 White	.....*	.19	.17
346685	644540-2	2	22 Red	.....*	.15	.12
346693	644540-3	3	22 Red	.....*	.15	.12
346706	644540-4	4	22 Red	.....*	.15	.12
346722	644540-6	6	22 Red	.....*	.15	.12
346731	644540-7	7	22 Red	.....*	.15	.12
346749	644540-8	8	22 Red	.....*	.15	.12

#### With Polarizing Tabs (Fig. 4)

Part No.	Product No.	Pos.	AWG Color	1	10	100
346765	1-644540-0	10	22 Red	.....*	\$.15	\$.12
346773	644563-2	2	24 White	.....*	.15	.12
346781	644563-3	3	24 White	.....*	.15	.12
346790	644563-4	4	24 White	.....*	.15	.12
346811	644563-6	6	24 White	.....*	.15	.12
346837	644563-8	8	24 White	.....*	.15	.12
346853	1-644563-0	10	24 White	.....*	.15	.12

\* RoHS compliant product   + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).

## AMP MTA-100 .100" (2.54mm) IDC Connectors

Closed-End Style w/o Polarizing Tabs w/ Locking Ramp

- Contacts: phosphor bronze, tin-plated
- Voltage rating: 250VAC **\*Web Code: CCV**
- Current rating: 5A



524710

\* Order in multiples of 10

Part No.	Product No.	Pos.	AWG	Color	1	10	100
524710	640440-4	4	22	Red .....	*	\$.15	\$.12
524681	1-640440-2	12	22	Red ...	.39	.35	.29

## JAMECO ValuePro .100" Strain Relief Covers



Order in multiples of 10

Part No.	Cross Ref.	Fig.	Style	Pos.	10	100
326019	643075-2	1	Closed-end	2 .....	\$.09	\$.07
326027	643075-3	1	Closed-end	3 .....	\$.09	\$.07
326035	643075-4	1	Closed-end	4 .....	\$.09	\$.07
326043	643075-5	1	Closed-end	5 .....	\$.09	\$.07
326051	643075-6	1	Closed-end	6 .....	\$.09	\$.07
326060	643075-7	1	Closed-end	7 .....	\$.09	\$.07
326078	643075-8	1	Closed-end	8 .....	\$.09	\$.07
326086	643075-9	1	Closed-end	9 .....	\$.09	\$.07
326094	1-643075-0	1	Closed-end	10 .....	.12	.09
326107	643077-2	2	Feed-thru	2 .....	\$.09	\$.07
326115	643077-3	2	Feed-thru	3 .....	\$.09	\$.07
326123	643077-4	2	Feed-thru	4 .....	\$.09	\$.07
326131	643077-5	2	Feed-thru	5 .....	\$.09	\$.07
326140	643077-6	2	Feed-thru	6 .....	\$.09	\$.07
326158	643077-7	2	Feed-thru	7 .....	\$.09	\$.07
326166	643077-8	2	Feed-thru	8 .....	\$.09	\$.07
326174	643077-9	2	Feed-thru	9 .....	\$.09	\$.07
326182	1-643077-0	2	Feed-thru	10 .....	.12	.09

## AMP T-Handle Tool

- For .100" (2.54mm) IDC connectors

Part No.	Mfr. P/N	Description	1	5
365974	59803-1	.100" hand tool .....	\$21.95	\$19.95

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**JAMECO**  
ValuePro

## .156" (3.96mm) IDC Connectors

### AMP MTA-156 Series Value Equivalents

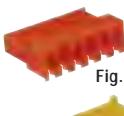


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

\* Order in multiples of 10

### Closed-End Style

#### With Locking Ramp, w/o Polarizing Tabs (Fig. 1)

Part No.	Product No.	Pos.	AWG	Color	1	10	100
397431	640426-2R	2	18	Orange ..*	\$.15	\$.12	
397440	640426-3R	3	18	Orange ..*	.15	.12	
397474	640426-6R	6	18	Orange ..*	.15	.12	
397520	640427-2R	2	20	Yellow ..*	.15	.12	
397554	640427-5R	5	20	Yellow ..*	.15	.12	
397562	640427-6R	6	20	Yellow ..*	.15	.12	

#### With Locking Ramp, Polarizing Tabs (Fig. 2)

Part No.	Product No.	Pos.	AWG	Color	1	10	100
397618	643817-2R	2	18	Orange ..*	\$.15	\$.12	
397626	643817-3R	3	18	Orange ..*	.15	.12	
397634	643817-4R	4	18	Orange ..*	.15	.12	
397642	643817-5R	5	18	Orange ..*	.15	.12	
397651	643817-6R	6	18	Orange ..*	.15	.12	
397706	643818-2R	2	20	Yellow ..*	.15	.12	
397714	643818-3R	3	20	Yellow ..*	.15	.12	
397722	643818-4R	4	20	Yellow ..*	.15	.12	
397731	643818-5R	5	20	Yellow ..*	.15	.12	
397749	643818-6R	6	20	Yellow ..*	.15	.12	

#### Strain Relief Covers for Closed-End Style

Part No.	Product No.	Pos.	1	10	100
398696	643067-2R	2 .....	\$.09	\$.07	
398709	643067-3R	3 .....	\$.09	\$.07	
398717	643067-4R	4 .....	\$.09	\$.07	
398725	643067-5R	5 .....	\$.09	\$.07	

#### Feed-Thru Style

#### With Locking Ramp, w/o Polarizing Tabs (Fig. 3)

Part No.	Product No.	Pos.	AWG	Color	1	10	100
397802	640599-3R	3	18	Orange ..*	\$.15	\$.12	
397829	640599-5R	5	18	Orange ..*	.15	.12	
397837	640599-6R	6	18	Orange ..*	.15	.12	
397888	640600-2R	2	20	Yellow ..*	.15	.12	
397909	640600-4R	4	20	Yellow ..*	.15	.12	
397917	640600-5R	5	20	Yellow ..*	.15	.12	
397925	640600-6R	6	20	Yellow ..*	.15	.12	

#### With Locking Ramp, Polarizing Tabs (Fig. 4)

Part No.	Product No.	Pos.	AWG	Color	1	10	100
397984	644465-3R	3	18	Orange ..*	\$.15	\$.12	
397992	644465-4R	4	18	Orange ..*	.15	.12	
398004	644465-5R	5	18	Orange ..*	.15	.12	
398012	644465-6R	6	18	Orange ..*	.15	.12	
398063	644466-2R	2	20	Yellow ..*	.15	.12	
398071	644466-3R	3	20	Yellow ..*	.15	.12	
398080	644466-4R	4	20	Yellow ..*	.15	.12	
398098	644466-5R	5	20	Yellow ..*	.15	.12	
398101	644466-6R	6	20	Yellow ..*	.15	.12	

#### Strain Relief Covers for Feed-Thru Style (Fig. 5)

Part No.	Product No.	Pos.	1	10	100
398602	643071-2R	2 .....	\$.09	\$.07	
398611	643071-3R	3 .....	\$.09	\$.07	
398629	643071-4R	4 .....	\$.09	\$.07	
398637	643071-5R	5 .....	\$.09	\$.07	
398645	643071-6R	6 .....	\$.09	\$.07	

## Commercial MATE-N-LOK™ Connectors & Terminals

- Fully polarized nylon housing

**AMP**

- UL94V-2 rated housing

- Durability: 50 cycles, mating and unmating



Fig. 1



Fig. 2



Fig. 3

### PCB In-Line Vert. Pin Header w/ Detent Lock (Fig. 1)

Part No.	Product No.	Pos.	1	10	100
679607	350210-1R	3 .....	\$.55	\$.49	\$.45
679674	350214-1R	16 .....	.65	.59	.55

### PCB In-Line Vert. Socket Header w/ Detent Lock (Fig. 2)

Part No.	Product No.	Pos.	1	10	100
679682	770997-1R	4 .....	\$.79	\$.69	\$.59

### PCB In-Line Vert. Pin Header w/ Positive Lock (Fig. 3)

Part No.	Product No.	Pos.	1	10	100
679594	350541-1R	3 .....	\$.89	\$.79	\$.69
679615	350543-1R	4 .....	.89	.79	.69

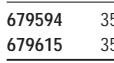


Fig. 4

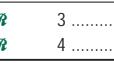


Fig. 5

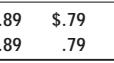


Fig. 6

\* Order in multiples of 10

### PCB Dual Row Vertical Pin Header w/ Positive Lock (Fig. 4)

Part No.	Product No.	Pos.	1	10	100
679623	350425-1R	6 (2 x 3)	\$.135	\$.119	\$.95
679640	1-380991-0R	10 (2 x 5)	....	.75	.69

### In-Line Housing Plug, Free

# Commercial Connectors, Shorting Blocks & Headers

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## AMP Commercial MATE-N-LOK™ Connectors & Terminals (Cont.)



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14

Fig. 15

### Motor Mount, Dual Row Cap with Positive Lock (Fig. 10)

\* Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	1	10	100
679527	1-480271-0	6 (2 x 3) .... *	.19	.15	
679535	1-480284-0	8 (2 x 4) .... .29	.25	.19	
679543	1-480286-0	10 (2 x 5) .... 1.29	1.15	.95	
679551	1-480288-0	12 (2 x 6) .... .35	.29	.25	
679560	1-480439-0	16 (2 x 8) .... .49	.45	.39	

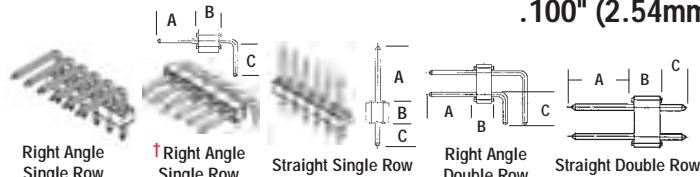
### Panel Mount Housing Plug with Positive Lock (Fig. 11)

\* Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	1	10	100
679471	1-480304-0	3 (1 x 3) .... *	.19	.15	
679498	1-480274-0	9 (3 x 3) .... .65	.59	.55	
679501	1-480275-0	12 (3 x 4) .... .39	.35	.29	
679519	1-480323-0	15 (3 x 5) .... .49	.45	.39	

### Panel Mount Housing Cap with Positive Lock (Fig. 12)

Part No.	Mfr. Part No.	Pos.	1	10	100
679447	1-480277-0	9 (3 x 3) .... .39	.35	.29	
679463	1-480324-0	15 (3 x 5) .... .49	.45	.39	



### Right Angle Single Row Male Headers

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
2076842	Various	RMH5	5	.27 x .10 x .12	Gold ...	\$ .29	\$ .25	\$ .19
2076851	Various	RMH6	6	.27 x .10 x .12	Gold ...	.29	.25	.19
153728	ValuePro	RMH8	8	.27 x .10 x .12	Gold ...	.39	.35	.29
2076869	Various	RMH26	26	.27 x .10 x .12	Gold ...	.55	.45	.35
103271	ValuePro	RMH36 (LP) <sup>†</sup>	36	.23 x .10 x .12	Gold ...	.95	.79	.65
1946041	ValuePro	RMH36AR(type A) <sup>†</sup>	36	.27 x .10 x .22	Gold ...	.85	.69	.55

† Low profile

### Straight Single Row Male Headers

\* Web Code: TAM

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
2076797	Various	SMH01	1	.23 x .10 x .12	Gold ...	* .07	.05	
222966	Various	SMH01GT-43 <sup>†</sup>	1	.43 x .10 x .12	Gold/Tin ...	* .15	.11	
108337	Various	SMH02+	2	.23 x .10 x .12	Gold ...	.25	.22	.15
421489	AMP	103185-3	3	.23 x .09 x .12	Gold/Tin ...	* .15	.12	
109576	ValuePro	SMH03 <sup>†</sup>	3	.23 x .10 x .12	Gold ...	.35	.29	.25
117560	ValuePro	SMH04 <sup>†</sup>	4	.23 x .10 x .12	Gold ...	.29	.25	.19
2076789	Various	SMH05	5	.23 x .10 x .12	Gold ...	* .15	.12	
153700	ValuePro	SMH06 <sup>†</sup>	6	.23 x .10 x .12	Gold ...	.29	.25	.19
2076800	Various	SMH07	7	.23 x .10 x .12	Gold ...	* .12	.09	
687181	Leoco	2556P07JL62 <sup>†</sup>	7	.23 x .10 x .12	Gold/Tin ...	* .19	.15	
153702	ValuePro	SMH08 <sup>†</sup>	8	.23 x .10 x .12	Gold ...	.29	.25	.19
2076818	Various	SMH09	9	.23 x .10 x .12	Gold ...	* .12	.09	
103393	ValuePro	SMH10 <sup>†</sup>	10	.23 x .10 x .12	Gold ...	.35	.29	.25

\* Dimension "A" has gold plating; dimension "C" has tin plating

### Vertical In-Line IDC (Fig. 13)

Part No. Mfr. Part No. Pos. AWG 1 10 100

679691	770156-4 <sup>†</sup>	4	20	\$ .49	\$ .45	\$ .39
679703	770156-3 <sup>†</sup>	4	18	.45	.39	.35

### IDC Dust Covers (Fig. 14)

Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	Style	10	100
679711	770232-1 <sup>†</sup>	4	Feed-to	\$ .12	\$ .09
679720	770233-1 <sup>†</sup>	4	Feed-thru	.19	.15

### Crimp Terminals (Fig. 15)

• Material: A-brass pre-tin; B-phosphor bronze/pre-tin

Order in multiples of 10

Part No.	Mfr. Part No.	Type	AWG	Material	10	100
526168	60619-1 <sup>†</sup>	Socket	20-14	A	\$ .15	\$ .12
526125	60620-1 <sup>†</sup>	Pin	20-14	A	.12	.09
847009	350922-3 <sup>†</sup>	Pin	12-10	B	.12	.09
845652	350536-3 <sup>†</sup>	Socket	20-14	B	.05	.04

[www.Jameco.com/TechCenter](http://www.Jameco.com/TechCenter)

## JAMECO ValuePro .100" & 2mm Shorting Blocks



22024 (open)



112432 (closed)



152671 (closed)

- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color code strip line plugs
- Mate with male headers, above
- Pin material: phosphor bronze

★ Web Code: MAC

Open: Open on top to allow for a test point

Closed: Closed top

119264: 2mm (for disk drives) Order in multiples of 10

Part No.	Description	10	100	500
22024	Top open, black (.100") <sup>†</sup>	\$ .12	\$ .09	\$ .07
119264	Top open, black (2mm) <sup>†</sup>	.12	.09	.07
112425	Top open, blue (.100") <sup>†</sup>	.10	.07	.05
112417	Top open, red (.100") <sup>†</sup>	.10	.07	.05
19141	Top closed, black (.100") <sup>†</sup>	.10	.07	.05
112442	Top closed, blue (.100") <sup>†</sup>	.10	.07	.05
112432	Top closed, red (.100") <sup>†</sup>	.10	.07	.05
152671	Top closed, black (.100") <sup>†</sup>	.15	.12	.09

## AMP AMPMODU™ Shunt

- 2 position low profile
- 94V-0 rated housing
- Contact: phosphor bronze
- One-piece contact construction

Black

Order in multiples of 10

Part No.	Mfr. Part No.	Plating	10	100
421454	382811-8 <sup>†</sup>	5μ gold	\$ .09	\$ .07

## JAMECO ValuePro .100" (2.54mm) Male Headers

\* Web Code: DAH

### Straight Single Row Male Headers (Continued)

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")*	Plating	1	10	100
103377	ValuePro	SMH17 <sup>†</sup>	17	.23 x .10 x .12	Gold ...	\$ .35	\$ .29	\$ .25
103369	ValuePro	SMH20 <sup>†</sup>	20	.23 x .10 x .12	Gold ...	.35	.29	.25
202825	ValuePro	SMH22	22	.23 x .10 x .12	Gold ...	.35	.29	.25
103351	ValuePro	SMH25 <sup>†</sup>	25	.23 x .10 x .12	Gold ...	.39	.35	.25
103342	ValuePro	SMH30 <sup>†</sup>	30	.23 x .10 x .12	Gold ...	.39	.35	.25
222991	Various	SMH32GT <sup>†</sup>	32	.23 x .10 x .12	Gold/Tin ...	.39	.29	.25
2076826	Various	SMH34	34	.23 x .10 x .12	Gold ...	.39	.35	.25
68339	ValuePro	SMH36	36	.23 x .10 x .12	Gold ...	.45	.35	.29
160882	ValuePro	SMH40 <sup>†</sup>	40	.23 x .10 x .12	Gold ...	.59	.49	.39
527654	AMP	4-102976-0	40	.32 x .09 x .12	Gold/Tin	2.49	2.25	1.95

\* Dimension "A" has gold plating; dimension "C" has tin plating

### Right Angle Double Row Male Headers

\* Web Code: DAP

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
203908	ValuePro	923804DR	4	.23 x .10 x .12	Gold ...	* \$ .09	\$ .07	
203917	ValuePro	923806DR <sup>†</sup>	6	.23 x .10 x .12	Gold ...	* .15	.12	
203924	ValuePro	923808DR	8	.23 x .10 x .12	Gold ...	* .19	.15	
203932	ValuePro	923810DR	10	.23 x .10 x .12	Gold ...	.29	.25	.19
203941	ValuePro	923812DR	12	.23 x .10 x .12	Gold ...	* .15	.12	.09
2099930	Various	923814DT	14	.23 x .10 x .12	Tin ...	* .12	.09	
203959	ValuePro	923814DR	14	.23 x .10 x .12	Gold ...	* .15	.12	
203967	ValuePro	923816DR	16	.23 x .10 x .12	Gold ...	.39	.29	.25
203975	ValuePro	923818DR	18	.23 x .10 x .12	Gold ...	.35	.29	.25
53576	ValuePro	923820DR <sup>†</sup>	20	.23 x .10 x .12				

## .100" (2.54mm) Male Headers (Continued)

**molex®**

**JAMECO ValuePro**

### Straight Double Row Male Headers

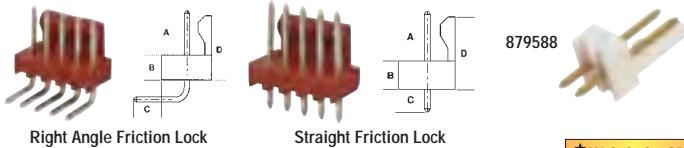
- Position: 4 is 2 rows of 2; 12 is 2 rows of 6 (example)

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")*	Plating	* Order in multiples of 10		
						1	10	100
15156	Various	DMH04GT	4	.23 x .10 x .12	Gold/Tin	\$.09	\$.08	
115027	Various	923804DS+	4	.23 x .10 x .12	Gold	* .15	.12	
115035	ValuePro	923806DS	6	.23 x .10 x .12	Gold	* .29	.25	.19
15158	Various	DMH06T-30	6	.30 x .10 x .12	Tin	* .15	.12	
15747	Various	DMH06-30	6	.30 x .10 x .12	Gold	.29	.25	.19
109516	Various	923808DS+	8	.23 x .10 x .12	Gold	* .29	.25	.19
67821	ValuePro	923810DS	10	.23 x .10 x .12	Gold	.35	.29	.25
203810	ValuePro	923812DS	12	.23 x .10 x .12	Gold	.39	.29	.25
118456	ValuePro	923814DS	14	.23 x .10 x .12	Gold	.49	.39	.35
109568	ValuePro	923816DS	16	.23 x .10 x .12	Gold	.55	.45	.39
2076877	Various	923818DS	18	.23 x .10 x .12	Gold	.55	.45	.35
53480	ValuePro	923820DS	20	.23 x .10 x .12	Gold	.65	.55	.45
203844	ValuePro	923824DS	24	.23 x .10 x .12	Gold	* .75	.59	.49
53495	Various	923826DS	26	.23 x .10 x .12	Gold	.75	.59	.49
203852	ValuePro	923828DS	28	.23 x .10 x .12	Gold	* .35	.29	.25
203861	ValuePro	923832DS	32	.23 x .10 x .12	Gold	* .75	.59	.49
53517	ValuePro	923834DS	34	.23 x .10 x .12	Gold	* .75	.59	.49
203888	ValuePro	923836DS	36	.23 x .10 x .12	Gold	.85	.69	.55
203895	ValuePro	923838DS	38	.23 x .10 x .12	Gold	* .49	.39	.25
53532	Various	923840DS	40	.23 x .10 x .12	Gold	* .75	.59	.49

\* For sizes please reference pictures on previous page

## .100" (2.54mm) Standard and Friction Lock Headers

**JAMECO ValuePro AMP molex® LEOCO**



**★ Web Code: GBN**

### Right Angle Friction Lock Headers

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xCxD")	Plating	1	10	100
						1	10	100
233437	Molex	22-05-3021	2	.26 x .13 x .14 x .32	Tin	* \$.15	\$.12	
348234	ValuePro	641216-2	2	.30 x .10 x .14 x .31	Gold	* .25	.22	.15
233445	Molex	22-05-3031	3	.26 x .13 x .14 x .32	Tin	.29	.25	.19
348242	ValuePro	641216-3	3	.30 x .10 x .14 x .31	Gold	* .19	.17	
233453	Molex	22-05-3041	4	.26 x .13 x .14 x .32	Tin	.35	.29	.25
233699	Molex	22-12-2044	4	.26 x .13 x .12 x .32	Gold	* .49	.45	.39
348251	ValuePro	641216-4	4	.30 x .10 x .14 x .31	Gold	* .19	.17	
233461	Molex	22-05-3051	5	.26 x .13 x .14 x .32	Tin	.45	.35	.29
233470	Molex	22-05-3061	6	.26 x .13 x .14 x .32	Tin	* .49	.39	.35
348277	ValuePro	641216-6	6	.30 x .10 x .14 x .31	Gold	* .45	.39	.35
348285	ValuePro	641216-7	7	.30 x .10 x .14 x .31	Gold	* .49	.45	.39
233496	Molex	22-05-3081	8	.26 x .13 x .14 x .32	Tin	.45	.39	.35
348293	ValuePro	641216-8	8	.30 x .10 x .14 x .31	Gold	* .55	.49	.45
348315	ValuePro	4-641216-0	10	.30 x .10 x .14 x .31	Gold	* .69	.65	

### Standard Straight Post

Blue Part No. = Limited Quantity Available

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
347400	ValuePro	644659-9	9	.30 x .10 x .110	Tin	* \$.15	\$.12	
232240	Molex	22-03-2121	12	.30 x .13 x .135	Tin	.29	.25	.22

<sup>t</sup> With retentive leg

**molex®**

- Contact resistance: 20mΩ max.
- Dielectric withstand voltage: 1500VAC
- Insulation resistance: 50kMΩ
- Voltage: 250V

### Housing Material:

- Contact retention to housing: 8 lbs. min.
- Contact insertion force: 1.5 lbs. max.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C

## KK® Series .100" (2.54mm) Female Housings

**★ Web Code: LBN**

### Housing with Locking Ramp

\* Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	1	10	100
234704	22-01-2027	2	* \$.15	\$.07	
234712	22-01-2037	3	.29	.25	.19
234721	22-01-2047	4	.29	.25	.19
234739	22-01-2057	5	.35	.29	.19
234747	22-01-2067	6	.39	.35	.29
234771	22-01-2107	10	.59	.55	.39

\* Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	1	10	100
234798	22-01-3027	2	* \$.15	\$.07	
234801	22-01-3037	3	.29	.25	.19
234819	22-01-3047	4	.29	.25	.19
234827	22-01-3057	5	.39	.35	.29
234835	22-01-3067	6	.45	.39	.35
234851	22-01-3087	8	.55	.49	.35
234878	22-01-3107	10	.59	.55	.49

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")*	Plating	Order in multiples of 10		
						1	10	100
53560	ValuePro	923850DS	50	.23 x .10 x .12	Gold ...	\$ .75	\$.59	\$.49
68574	ValuePro	923860DS	60	.23 x .10 x .12	Gold ...	.85	.69	.55
103406	ValuePro	70002X36SG-R	72	.23 x .10 x .12	Gold ...	.95	.79	.65
117197	ValuePro	923880DS	80	.23 x .10 x .12	Gold ...	1.09	.95	.79

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")*	Plating	Order in multiples of 10		
						1	10	100
53560	ValuePro	923850DS	50	.23 x .10 x .12	Gold ...	\$ .75	\$.59	\$.49

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")*	Plating	Order in multiples of 10		
						1	10	100
53560	ValuePro	923850DS	50	.23 x .10 x .12	Gold ...	\$ .75	\$.59	\$.49

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")*	Plating	Order in multiples of 10		
						1	10	100
53560	ValuePro	923850DS	50	.23 x .10 x .12	Gold ...	\$ .75	\$.59	\$.49

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")*	Plating	Order in multiples of 10		
						1	10	100
53560	ValuePro	923850DS	50	.23 x .10 x .12	Gold ...	\$ .75	\$.59	\$.49

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")*	Plating	Order in multiples of 10		
						1	10	100
53560	ValuePro	923850DS	50	.23 x .10 x .12	Gold ...	\$ .75	\$.59	\$.49

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")\*	Plating	Order in multiples of 10		
1	10	100						

# Housings, Headers & Crimp Terminals

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## molex® KK® Series .100" (2.54mm) Crimp Terminals

- Current: phosphor bronze – 4.0A max.; brass – 2.5A max.
- Insulation range: 0.062" (1.58mm) diameter max.
- Accommodates 22 to 30 AWG
- Material: 736456/736501/234923/234931: brass; 736595/462969/463005: phosphor bronze

\* Web Code: JCT



### Bulk Packaged

Part No.	Mfr. Part No.	Plating	Order in multiples of 10		
			10	100	1000
736501	08-50-0113R	Tin .....	\$0.05	\$0.04	\$0.03
234923	08-50-0114R	Tin .....	.06	.05	.04
234931	08-55-0102R	15μ" gold .....	.15	.12	.11
736595	08-52-0123R	Tin .....	.09	.08	.07
462969	08-65-0805R	Tin (cat ear) .....	.09	.08	.07
463005	08-65-0816R	15μ" gold .....	.19	.15	.13

**molex®**

JAMECO ValuePro

## .118" (3.0mm) Pitch Micro-Fit Housings and Headers

- Housing: polyester, UL94V-0
- Fully polarized to mating connector

\* Web Code: UBW

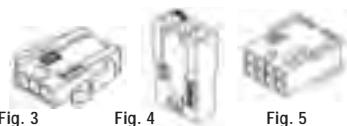


Fig. 3 Fig. 4

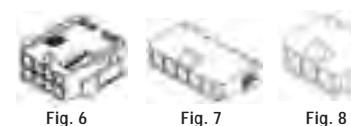


Fig. 5 Fig. 6

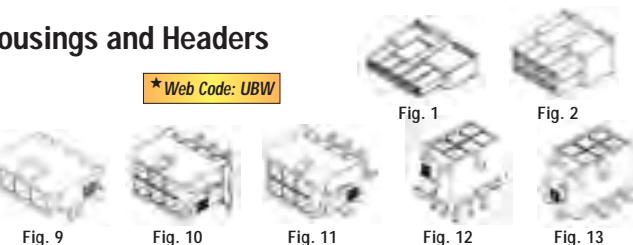


Fig. 1 Fig. 2  
Fig. 11 Fig. 12 Fig. 13

### Receptacles

Part No.	Mfr.	Cross Ref. No.	Pos.	* Order in multiples of 10		
				1	10	100
338351	ValuePro	43645-0200R	2 .....	* \$1.15	\$1.12	

### Double Row (Fig. 2)

Part No.	Mfr.	Product No.	Pos.	1	10	100
				6	15	\$1.12
337682	ValuePro	43025-0600R	8 .....	.35	.29	.25
882921	Molex	43025-0800R	10 .....	* .10	.09	
337703	ValuePro	43025-1000R	10 .....	* .12	.09	
337834	ValuePro	43025-1400R	14 .....	.35	.29	.25
337869	ValuePro	43025-2000R	20 .....	* .19	.15	
337877	ValuePro	43025-2400R	24 .....	* .19	.15	

Blue P/N = Limited Quantity Available

### Plugs

Order in multiples of 10

#### Single Row, Panel Mount w/ Ears (Fig. 3)

Part No.	Mfr.	Cross Ref. No.	Pos.	100		
				10	100	1000
338255	ValuePro	43640-0200R	2 .....	\$0.09	\$0.07	
338271	ValuePro	43640-0300R	3 .....	.12	.09	
338298	ValuePro	43640-0400R	4 .....	.12	.09	
338319	ValuePro	43640-0500R	5 .....	.12	.09	
338335	ValuePro	43640-0600R	6 .....	.12	.09	

#### Single Row, Free Hanging (Fig. 4)

Order in multiples of 10

#### Single Row, Panel Mount w/ Ears (Fig. 3)

Part No.	Mfr.	Cross Ref. No.	Pos.	100		
				10	100	1000
338263	ValuePro	43640-0201R	2 .....	\$0.15	\$0.12	
338301	ValuePro	43640-0401R	4 .....	.12	.09	
338327	ValuePro	43640-0501R	5 .....	.12	.09	
338343	ValuePro	43640-0601R	6 .....	.12	.09	

#### Double Row, Free Hanging (Fig. 5)

Order in multiples of 10

#### Double Row, Free Hanging (Fig. 5)

Part No.	Mfr.	Cross Ref. No.	Pos.	100		
				10	100	1000
337800	ValuePro	43020-0201R	2 .....	\$0.09	\$0.07	
337615	ValuePro	43020-0601R	6 .....	.09	.07	
337658	ValuePro	43020-1001R	10 .....	.12	.09	

## KK® Series .100" (2.54mm) Pitch Crimp Terminal Housings

### High Pressure

**molex®**



516242

- Voltage: 250V
- Current: 2.5A
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 500k MΩ min.
- Housing: white nylon, UL04V-0

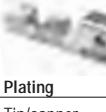
\* Order in multiples of 10

### Bulk Packaged

Order in multiples of 10

Part No.	Mfr. Part No.	Plating	Order in multiples of 10		
			10	100	1000
516200	10-11-2013R	1	.....*	\$0.09	\$0.07
516218	10-11-2023R	2	.....*	.09	.07
516234	10-11-2043R	4	.....*	.12	.09
516242	10-11-2053R	5	.....*	.09	.07

### Crimp Terminal



\* Order in multiples of 10

### Panel Mount w/ Ears

Order in multiples of 10

Part No.	Mfr.	Product No.	Pos.	100		
				1	10	100
337586	ValuePro	43020-0200R	2	.....*	\$0.09	\$0.07
337594	ValuePro	43020-0400R	4	.....*	.09	.07
337607	ValuePro	43020-0600R	6	.....*	.09	.07
337623	ValuePro	43020-0800R	8	.....*	.12	.09
337640	ValuePro	43020-1000R	10	.....*	.12	.09
337826	ValuePro	43020-1200R	12	.....*	.19	.15

### Plugs (Continued)

\* Order in multiples of 10

#### Double Row, Panel Mount w/ Ears (Fig. 6)

#### Right Angle, SMT – 15μ" gold (Fig. 9)

• Solderable retention clip

Part No.	Mfr.	Mfr. Part No.	Pos.	100		
				1	10	100
338415	Molex	43650-0210R	2	\$1.59	\$1.45	\$1.29
338440	Molex	43650-0310R	3	1.69	1.55	1.39
338474	Molex	43650-0410R	4	1.95	1.79	1.65
338503	Molex	43650-0510R	5	2.19	1.95	1.75
338538	Molex	43650-0610R	6	2.29	2.09	1.95

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 7)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – 15μ" gold (Fig. 7)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 8)

\* Order in multiples of 10

#### Right Angle, SMT – Tin (Fig. 8)

\* Order in multiples of 10

#### Right Angle, SMT – 15μ" gold (Fig. 9)

\* Order in multiples of 10

#### Right Angle, SMT – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – 30μ" Gold (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – 30μ" Gold (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

\* Order in multiples of 10

## .118" (3.00mm) Pitch Micro-Fit Housings and Headers (Continued)

### Double Row Headers (Cont.)

**molex®**

JAMECO ValuePro

Figure line art on previous page

Right Angle, SMT – Tin (Fig. 11) \* Order in multiples of 10

- Solderable fitting nail provides retention to PCB

Part No.	Mfr.	Mfr. Part No.	Pos.	1	10	100
337906	Molex	43045-0209R	2 .. \$ .69	\$ .65	\$ .59	
337981	Molex	43045-0409R	4 .... .95	.85	.75	
338061	Molex	43045-0609R	6 .... .69	.65	.59	

Right Angle, SMT – 30μ Gold (Fig. 11)

- Solderable fitting nail provides retention to PCB

Part No.	Mfr.	Mfr. Part No.	Pos.	1	10	100
337914	Molex	43045-0211R	2 \$1.95	\$1.75	\$1.59	
337990	Molex	43045-0411R	4 1.39	1.25	1.09	
338124	Molex	43045-0811	8 1.69	1.55	1.49	

Vertical, Polarizing Peg, PCB – Tin (Fig. 12)

Part No.	Mfr.	Cross Ref. No.	Pos.	1	10	100
337922	ValuePro	43045-0212R	2 .... *	\$ .12	\$ .09	
338001	ValuePro	43045-0412R	4 .... *	.15	.12	
338079	ValuePro	43045-0612R	6 .... *	.12	.09	
338132	ValuePro	43045-0812R	8 .... *	.15	.12	
338175	ValuePro	43045-1012R	10 .... *	.19	.15	
338239	ValuePro	43045-1212R	12 .... *	.19	.15	

\* Order in multiples of 10

Vertical, Polarizing Peg, PCB – 30μ Gold (Fig. 12)

Part No.	Mfr.	Cross Ref. No.	Pos.	1	10	100
337931	ValuePro	43045-0214R	2 .... *	\$ .15	\$ .12	
338010	ValuePro	43045-0414R	4 .... *	.19	.17	
338087	ValuePro	43045-0614R	6 .... .29	.25	.22	
338141	ValuePro	43045-0814R	8 .... *	.19	.17	
338183	ValuePro	43045-1014R	10 .. .49	.45	.39	
338247	ValuePro	43045-1214R	12 .. .55	.49	.45	

\* Order in multiples of 10

Vertical, Solder Tab, SMT – Tin (Fig. 13)

Part No.	Mfr.	Mfr. Part No.	Pos.	1	10	100
338028	Molex	43045-0418R	4 .. \$.95	\$.85	\$.75	
338159	Molex	43045-0818R	8 2.49	2.25	1.95	
338191	Molex	43045-1018R	10 1.39	1.25	1.09	

\* Order in multiples of 10

Vertical, Solder Tab, SMT – 30μ Gold (Fig. 13)

Part No.	Mfr.	Mfr. Part No.	Pos.	1	10	100
337957	Molex	43045-0220R	2 \$1.95	\$1.75	\$1.59	
338108	Molex	43045-0620R	6 2.69	2.49	2.25	
338204	Molex	43045-1020R	10 3.49	3.19	2.95	

\* Order in multiples of 10

## .156" (3.96mm) Headers, Housings and Crimp Terminals

- Wire-to-board applications
- End-to-end stackable styles
- Insulator: polyester, UL 94V-0
- Housing: nylon, UL 94V-0

★ Web Code: HHT

**molex® AMP**

JAMECO ValuePro

### Headers

\* Order in multiples of 10

Straight Friction Lock – Brass/Tin (Fig. 1)

Part No.	Mfr.	Product No.	Pos.	1	10	100
879861	Molex	26-60-4020R	2 .... *	\$ .15	\$ .12	
231546	AMP	640445-2R	2 .... *	.09	.07	
879887	Molex	26-60-4030R	3 .... *	.15	.12	
231554	AMP	640445-3R	3 .... *	.09	.07	
231562	AMP	640445-4R	4 .... *	.15	.12	
104792	ValuePro	LMH4R	4 .... *	.15	.12	
879941	Molex	26-60-4060R	6 ... .29	.25	.19	
104846	ValuePro	LMH10	10 .... *	.15	.12	



Fig. 1

Fig. 2

Fig. 3

Fig. 4

Right Angle Friction Lock – Copper/Tin (Fig. 2)

Part No.	Mfr.	Mfr. Part No.	Pos.	1	10	100
232400	AMP	640389-6R	6 \$.59	\$.55	\$.49	

### Crimp Terminals

- Plating: A: brass/tin;
- B: phosphor bronze/tin

Order in multiples of 10

Part No.	Mfr.	Product No.	Plating	AWG	10	100
736481	Molex	08-50-0106R	A	18-20	\$.06	\$.05
462774	Molex	08-50-0165R	A	18-20	.. .08	.07
736544	Molex	08-50-0189R	A	18-20	.. .06	.05
736552	Molex	08-52-0071R	B	18-20	.. .05	.04
736561	Molex	08-52-0072R	B	18-20	.. .08	.06
736587	Molex	08-52-0113R	A	18-20	.. .06	.05
248866	AMP	640706-1	A	18-24	.. .25	.19
248874	AMP	640706-2R	A	18-24	.. .19	.15
248882	AMP	640707-1	A	18-24	.. .15	.12
248903	AMP	770522-1	B	18-24	.. .25	.19
78319	ValuePro	JS-5001-TR	A	18-24	.. .05	.04

\*Trifurcon

\*Cat ear

\*Connector Tools — Enter Web Code VBW

\*More Housings Online — Enter Web Code CRH



### Helping You Find What You Need

Can't find the product you're looking for?  
Call us at 1-800-831-4242.

## .118" (3.00mm) Micro-Fit

### Crimp Terminals

Female (1)

Male (2)

Order in multiples of 10

Part No.	Mfr.	Product No.	Type	AWG	10	100
337720	ValuePro	43030-0007R	1A	20-24	\$.09	\$.08
883093	Molex	43030-0007R	1A	20-24	.12	.09
337738	ValuePro	43030-0009R	1B	26-30	.12	.09
337746	ValuePro	43030-0010R	1A	20-24	.09	.08
337754	ValuePro	43030-0012R	1C	26-30	.19	.15
337762	ValuePro	43031-0007R	2A	20-24	.09	.08
337789	ValuePro	43031-0010R	2A	26-30	.05	.04

Blue Part No. = Limited Quantity Available

## Tools for Micro-Fit Connectors



Fig. 1

Fig. 2

Fig. 3

## Receptacles

### Single Row (Fig. 1)

Order in multiples of 10

Part No.	Mfr.	Cross Ref. No.	Pos.	1	10	100
364584	ValuePro	39-01-4030R	3 .... *	\$.09	\$.07	
364736	ValuePro	39-01-2020R	2 .... *	\$.09	\$.08	
303562	Molex	39-01-2020R	2 ... .35	.29	.25	
364744	ValuePro	39-01-2040R	4 .... *	.07	.05	
303571	Molex	39-01-2040R	4 ... .35	.19	.15	
364752	ValuePro	39-01-2060R	6 .... *	.09	.08	
303589	Molex	39-01-2060R	6 .... *	.19	.15	
364761	ValuePro	39-01-2080R	8 .... *	.15	.12	
364779	ValuePro	39-01-2100R	10 .... *	.09	.07	
364787	ValuePro	39-01-2120R	12 .... *	.12	.09	
303618	Molex	39-01-2120R	12 .... *	.19	.17	
364795	ValuePro	39-01-2140R	14 .... .39	.35	.29	
303642	Molex	39-01-2180R	18 .... .29	.25	.19	
364824	ValuePro	39-01-2200R	20 .... *	.15	.12	
364832	ValuePro	39-01-2220R	22 .... *	.15	.12	
303669	Molex	39-01-2220R	22 ... .59	.55	.49	
364841	ValuePro	39-01-2240R	24 .... *	.15	.12	
303677	Molex	39-01-2240R	24 ... .95	.85	.75	

\* Not for use with strain relief

### Plugs

### Single Row, Panel Mount

Order in multiples of 10

Part No.	Mfr.	Product No.	Pos.	1	10	100
364613	ValuePro	39-01-4032R	3 .... *	\$.12	\$.09	
364621	ValuePro	39-01-4052R	5 .... *	.12	.09	
303829	Molex	39-01-4052R	5 .... *	.19	.15	

Continued on next page

# Mini-Fit Jr.™ Type Connectors

**molex®**

JAMECO ValuePro

## .165" (4.19mm) Mini-Fit Jr.™ Type Connectors (Continued)

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

★ Web Code: MTC

\* Order in multiples of 10

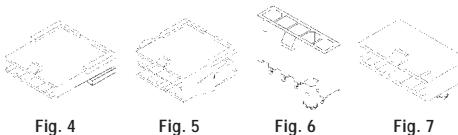


Fig. 4



Fig. 5



Fig. 6



Fig. 7

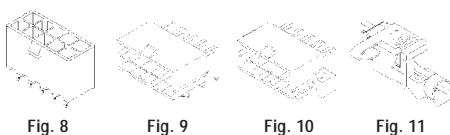


Fig. 8



Fig. 9



Fig. 10

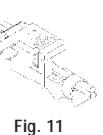


Fig. 11

### Plugs

\* Order in multiples of 10

#### Single Row, Free Hanging (Fig. 4)

Part No.	Mfr.	Cross Ref. No.	Pos.	1	10	100
364630	ValuePro	39-01-4036	3 ..*	\$0.09	\$0.07	
364656	ValuePro	39-01-4056	5 ..*	.09	.07	

#### Double Row, Panel Mount w/ Ears (Fig. 5)

Part No.	Mfr.	Product No.	Pos.	1	10	100
364859	ValuePro	39-01-2021	2 ..*	\$0.15	\$0.12	
303685	Molex	39-01-2021	2 ..	.35	.29	.25
364867	ValuePro	39-01-2041	4 ..*	.15	.12	
303693	Molex	39-01-2041	4 ..*	.19	.15	
364875	ValuePro	39-01-2061	6 ..	.29	.25	.19
303706	Molex	39-01-2061	6 ..	.39	.35	.29
364891	ValuePro	39-01-2101	10 ..*	.19	.15	
303722	Molex	39-01-2101	10 ..	.29	.25	.19
364904	ValuePro	39-01-2121	12 ..*	.15	.12	
303731	Molex	39-01-2121	12 ..*	.19	.15	
364912	ValuePro	39-01-2141	14 ..*	.19	.15	
303749	Molex	39-01-2141	14 ..	.35	.29	.25
364921	ValuePro	39-01-2161	16 ..*	.19	.15	
303757	Molex	39-01-2161	16 ..	.35	.29	.25

• Blue Part No. = Limited Quantity Available

#### Single Row Headers

\* Order in multiples of 10

#### Vertical w/ Pegs & Drain Holes – Tin (Fig. 6)

Part No.	Mfr.	Product No.	Pos.	1	10	100
364672	ValuePro	39-30-2035	3 ..*	\$0.19	\$0.15	
304573	Molex	39-30-2035	3 ..	.55	.49	.45
364681	ValuePro	39-30-2045	4 ..*	.15	.12	
364699	ValuePro	39-30-2056	5 ..*	.15	.12	
304590	Molex	39-30-2056	5 ..	.65	.59	.55

#### Right Angle w/ Pegs – Tin (Fig. 7)

Part No.	Mfr.	Product No.	Pos.	1	10	100
364701	ValuePro	39-30-3035	3 ..*	\$0.15	\$0.12	
304602	Molex	39-30-3035	3 ..	.49	.45	.39
364710	ValuePro	39-30-3045	4 ..*	.15	.12	
304611	Molex	39-30-3045	4 ..	.55	.49	.45
364728	ValuePro	39-30-3055	5 ..*	.15	.12	

#### Double Row Headers

\* Order in multiples of 10

#### Vertical w/o Pegs, w/o Drain Holes – Tin (Fig. 8)

Part No.	Mfr.	Product No.	Pos.	1	10	100
364939	ValuePro	39-28-1023	2 ..*	\$0.15	\$0.12	
303845	Molex	39-28-1023	2 ..*	.19	.15	
364947	ValuePro	39-28-1043	4 ..*	.15	.12	
364955	ValuePro	39-28-1063	6 ..*	.15	.12	
364963	ValuePro	39-28-1083	8 ..*	.15	.12	
364980	ValuePro	39-28-1123	12 ..*	.19	.15	
364998	ValuePro	39-28-1143	14 ..*	.19	.15	
303909	Molex	39-28-1143	14 ..	.99	.89	.79
365000	ValuePro	39-28-1163	16 ..*	.19	.15	
365018	ValuePro	39-28-1183	18 ..*	.19	.15	
303925	Molex	39-28-1183	18 ..	.95	.85	.75
303941	Molex	39-28-1223	22 ..	1.49	1.35	1.19
365042	ValuePro	39-28-1243	24 ..	.29	.25	.19

• Blue Part No. = Limited Quantity Available

• This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).

*Crimp Terminals on next page*

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#### Right Angle w/ Pegs – 30μ" Gold (Fig. 9) (Cont.)

Part No.	Mfr.	Product No.	Pos.	1	10	100
365392	ValuePro	39-30-1161	16 ..*	\$1.89	\$1.65	\$1.49
365405	ValuePro	39-30-1181	18 ..	1.99	1.75	1.65
304282	Molex	39-30-1181	18 ..	2.75	2.49	2.25
304291	Molex	39-30-1201	20 ..	2.95	2.75	2.49
365421	ValuePro	39-30-1221	22 ..	2.59	2.25	2.09
304303	Molex	39-30-1221	22 ..	3.59	3.25	2.95
365430	ValuePro	39-30-1241	24 ..	2.75	2.49	2.25
304311	Molex	39-30-1241	24 ..	3.95	3.59	3.25

#### Right Angle w/ Flange – Tin (Fig. 10)

Part No.	Mfr.	Product No.	Pos.	1	10	100
365448	ValuePro	39-29-1028	2 ..*	\$0.12	\$0.09	
304320	Molex	39-29-1028	2 ..	.35	.29	.25
365456	ValuePro	39-29-1048	4 ..*	.12	.09	
304338	Molex	39-29-1048	4 ..	.45	.39	.35
304346	Molex	39-29-1068	6 ..	.55	.49	.45
365472	ValuePro	39-29-1088	8 ..*	.15	.12	
304354	Molex	39-29-1088	8 ..	.65	.59	.55
365481	ValuePro	39-29-1108	10 ..*	.15	.12	
365499	ValuePro	39-29-1128	12 ..*	.15	.12	
304371	Molex	39-29-1128	12 ..	.95	.85	.75
365501	ValuePro	39-29-1148	14 ..*	.19	.15	.15
304389	Molex	39-29-1148	14 ..	1.09	.99	.89
365510	ValuePro	39-29-1168	16 ..*	.19	.15	.15
304397	Molex	39-29-1168	16 ..	1.39	1.25	1.09
365528	ValuePro	39-29-1188	18 ..*	.19	.15	.15
304400	Molex	39-29-1188	18 ..	1.49	1.35	1.19
365536	ValuePro	39-29-1208	20 ..*	.19	.15	.15
304418	Molex	39-29-1208	20 ..	1.49	1.35	1.19
365544	ValuePro	39-29-1228	22 ..*	.19	.15	.15
304426	Molex	39-29-1228	22 ..	1.89	1.65	1.49
365552	ValuePro	39-29-1248	24 ..	.29	.25	.19
304434	Molex	39-29-1248	24 ..	1.89	1.65	1.49

#### Right Angle w/ Flange – 30μ" Gold (Fig. 10)

Part No.	Mfr.	Product No.	Pos.	1	10	100
365561	ValuePro	39-39-5023	2 ..*	\$0.19	\$0.15	
304442	Molex	39-29-5023	2 ..	.65	.59	.55
365579	ValuePro	39-29-5043	4 ..*	.55	.49	.45
365587	ValuePro	39-29-5063	6 ..	.79	.69	.59
304469	Molex	39-29-5063	6 ..	1.09	.99	.89
365595	ValuePro	39-29-5083	8 ..	.99	.89	.79
304477	Molex	39-29-5083	8 ..	1.39	1.25	1.09
365608	ValuePro	39-29-5103	10 ..	1.25	1.09	.99
365616	ValuePro	39-29-5123	12 ..	1.49	1.35	1.19
304493	Molex	39-29-5123	12 ..	1.89	1.65	1.49
365632	ValuePro	39-29-5163	16 ..	1.89	1.65	1.49
365641	ValuePro	39-29-5183	18 ..	1.99	1.75	1.65
304522	Molex	39-29-5183	18 ..	2.95	2.75	2.49
365659	ValuePro	39-29-5203	20 ..	2.49	2.15	1.95
304531	Molex	39-29-5203	20 ..	3.59	3.25	2.95
365667	ValuePro	39-39-5223	22 ..	2.59	2.25	2.09
304549	Molex	39-29-5223	22 ..	4.49	3.95	3.49
365675	ValuePro	39-29-5243	24 ..	2.95	2.75	2.49
304557	Molex	39-29-5243	24 ..	4.49	3.95	3.49

#### Strain Reliefs (Fig. 11)

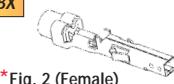
Part No.	Mfr.	Mfr. Part No.	Pos.	1	10	100
304637	Molex	15-04-0296	6 ..	.65	.59	.55
304645	Molex	15-04-0343	8 ..	.85	.75	.65

# Terminals, Headers & IDC Ribbon Connectors

## .165" (4.19mm) Mini-Fit Jr.™ **molex®** Type Terminals

JAMECO  
ValuePro

\* Web Code: CBX



\*Fig. 1 (Male)

\*Fig. 2 (Female)

- \*Type: A: Tin over nickel over brass
- B: 15μ" gold over nickel over brass
- C: 30μ" gold over nickel over brass
- D: Tin over nickel over phosphor bronze
- E: Brass or copper (post plated tin over nickel)
- F: 15μ" gold over nickel over phosphor bronze
- G: 30μ" gold over nickel over phosphor bronze
- H: Brass (post plated tin over nickel)
- I: Phosphor bronze (pre-plated gold over nickel)

22-28 AWG \* Order in multiples of 10

Part No.	Mfr.	Product No.	Type*	1	10	100
304872	Molex	39-00-0047	2A .... *	\$ .14	\$ .10	
365798	ValuePro	39-00-0088	1C .... *	.19	.15	
401841	ValuePro	39-00-0098	1B .... *	.09	.07	
401752	ValuePro	39-00-0126	2D .... *	.09	.08	
365915	ValuePro	39-00-0166	2C .... *	.19	.15	
401728	ValuePro	39-00-0172	2B .... *	.15	.12	
<b>304899</b>	Molex	39-00-0184	21 .. 39	.35	.29	
365907	ValuePro	39-00-0184	2G .... *	.12	.09	
401787	ValuePro	39-00-0197	2F .... *	.09	.07	
401699	ValuePro	39-00-0210	2A .... *	.09	.08	

• Blue Part No. = Limited Quantity Available

18-24 AWG \* Order in multiples of 10

Part No.	Mfr.	Product No.	Type*	1	10	100
304733	Molex	39-00-0039	2A .... *	\$ .07	\$ .06	
304725	Molex	39-00-0041	1A .... *	.09	.08	
401859	ValuePro	39-00-0076	1B .... *	.39	.35	.29
401824	ValuePro	39-00-0121	1A .... *	.09	.08	
365886	ValuePro	39-00-0164	2C .... *	.19	.15	
401736	ValuePro	39-00-0170	2B .... *	.39	.35	.29
365851	ValuePro	39-00-0182	2G .... *	.19	.15	
401795	ValuePro	39-00-0195	2F .... *	.15	.12	
401701	ValuePro	39-00-0208	2A .... *	.09	.07	
304821	Molex	30490-1012	11 .. 65	.59	.55	
304792	Molex	30490-2012	11 .. 25	.22	.15	
884248	Molex	44476-1112	2E .... *	.05	.04	
304776	Molex	44476-1112	2I .... *	.19	.15	
304784	Molex	44485-1212	2I .. 49	.45	.39	

• Sold in 4000 piece reel

Part No.	Mfr.	Mfr. Part No.	Type*	4000
307993	Molex	39-00-0038	2A ..	\$.03
307985	Molex	39-00-0040	1A ..	.03

16 AWG \* Order in multiples of 10

Part No.	Mfr.	Product No.	Type*	1	10	100
304709	Molex	39-00-0096	1H \$ .49	\$ .45	\$ .35	
365704	ValuePro	39-00-0096	1C .... *	.12	.09	
401867	ValuePro	39-00-0099	1B .... *	.09	.07	
401832	ValuePro	39-00-0125	1A .... *	.09	.08	
365835	ValuePro	39-00-0168	2C .. 35	.29	.25	
<b>401744</b>	ValuePro	39-00-0174	2B .... *	.15	.12	
365827	ValuePro	39-00-0186	2G .... *	.12	.09	
401808	ValuePro	39-00-0199	2F .... *	.09	.07	
401710	ValuePro	39-00-0212	2A .... *	.06	.05	
401779	ValuePro	39-00-0218	2D .... *	.05	.04	
304670	Molex	44476-3112	2H .... *	.19	.15	
304661	Molex	44478-3112	1E .... *	.19	.15	

• Blue Part No. = Limited Quantity Available

## .165" (4.19mm) Mini-Fit BMI™ Plug

- Housing: UL94V-2 Nylon 6/6
- Operating temp: -40°C to +105°C
- Mates w/ 5557/42385/42474/43760 series receptacles
- Use 5558/44475/444778 series terminals
- Dual row with panel mount ears

Part No. Mfr. Part No. Pos. 1 10 100

741386 15-06-0245A 24 ..... \$ .79 \$ .69 \$.59



JAMECO  
ValuePro

## .100" (2.54mm) Female Header Receptacles

JAMECO  
ValuePro

JAMECO  
Value

# Connectors & Headers

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## AMP .100" (2.54mm) AMPLATCH™ Ribbon Connectors

### Low-Profile Shrouded Headers with 0.150" End Dimension, Dual Row

- 0.120" solder tail
- 0.025" square posts
- Housing: black thermoplastic, UL94V-0 rated
- Contact: phosphor bronze



496085

\* Web Code: UCB

### Contact Plating:

- A: 30μ" gold in contact area, 100μ" ~ 200μ" tin/lead on solder tail, all over 50μ" nickel;
- B: 30μ" gold on mating area, 100μ" min. tin on solder end, all over 50μ" nickel;
- C: 15μ" gold in contact area, 100μ" ~ 200μ" tin/lead on solder tail, all over 50μ" nickel

### Straight (no latch)

Part No.	Mfr. P/N	Pos.	Plating	1	10	100
496051	103309-1	10	A	.65	.59	.49
753571	5103309-2A	14	B	1.35	1.19	1.05
496085	103308-5	20	C	1.09	.99	.89
496296	103308-6	26	C	1.25	1.09	.95
496114	103309-8	40	C	1.65	1.49	1.35

### Right Angle (no latch)

Part No.	Mfr. P/N	Pos.	Plating	1	10	100
737740	103310-2	14	C	.85	.75	.65
737774	103310-6	26	C	1.95	1.75	1.49

\* Latch DIP Plugs Online — Enter Web Code EAQ

## JAMECO ValuePro .100" (2.54mm) Low Profile Male Shrouded Headers

### Straight Double Row

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Contact: phosphor bronze, gold plated
- Features: UL recognized CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Use with IDC socket connectors, right



\* Web Code: JAH

Part No.	Cross Ref. No.	Pos.	1	10	100
67812	7110-10SGA	10	\$.49	\$.45	\$.39
2100304	7110-14SGA	14	\$.49	.45	.39
68180	7110-16SGA	16	\$.49	.45	.39
68292	7110-20SGA	20	.55	.49	.39
68372	7110-26SGA	26	.55	.45	.35
68583	7110-34SGA	34	.89	.69	.49
181105	7110-40SGA	40	1.29	.99	.79
2100312	7110-50SGA	50	1.49	1.15	.89

\* .200" Drive Power Connectors & Crimp Terminals Available Online — Enter Web Code ABU

## H IDC Connector Crimping Tool

- Use for IDC socket connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Size: 9.2" L x 3.0" W
- Weight: 1.1 lbs.



Part No.	Mfr. Part No.	1	10	25
73252	HT214A	\$15.95	\$14.39	\$12.95

Have A Large Volume Order That Requires  
Special Pricing? Call us at 1-800-831-4242

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

## .100" (2.54mm) Straight Male Headers

### Double Row w/ Standard Latch

\* Web Code: VAO

- 0.1" contact center
- Mount vertical
- Keying slot
- Use w/ IDC socket connectors, right below



71830

Part No.	Mfr.	Pins	1	10	100
117664	ValuePro	10-pinA	\$.65	\$.55	\$.49
1928169	On Shore	16-pin	.49	.39	.29
71830	ValuePro	20-pinA	.95	.85	.75
2076375	CW Ind.	20-pinA†	.95	.85	.65
71933	ValuePro	26-pinA	1.29	1.15	.95
1928177	On Shore	34-pin	.65	.59	.49
1928185	On Shore	34-pin†	.65	.59	.55
72216	ValuePro	50-pinA	1.49	1.35	1.19

## JAMECO EXCLUSIVE .100" & 2mm IDC Socket Connectors

### Double Row

- Current rating: 1A
- Mates with 2 rows of .025" sq. or dia. posts on patterns of .100" centers (male headers, pg 74)
- Contact material: phosphor bronze w/ 1μ" gold flash on mating area, tin plated on termination area
- Industry standard IDC socket (plastic)
- Temp. rating: -55°C to +105°C
- Use crimpler P/N 73252, below left



32564

\* Web Code: QAE

### Polarized

Part No.	Cross Ref. No.	Contacts	1	10	100
32492	8000-10A	10	\$.29	\$.25	\$.19
153948	8000-14A	14	.35	.29	.25
119467	8000-16A	16	.39	.35	.29
32522	8000-20A	20	.45	.39	.35
32564	8000-26A	26	.49	.45	.39
32644	8000-34A	34	.55	.49	.45
32679	8000-40A	40	.59	.55	.49
100386	110-44	44 (2mm)	.29	.25	.19
32708	8000-50A	50	.65	.59	.55
32759	8000-60A	60	.89	.79	.69

\* Order in multiples of 10

Part No.	Cross Ref. No.	Contacts	1	10	100
138325	8000-20NE	20	* \$.19	\$.15	
138333	8000-26NE	26	.35	.29	.25
138341	8000-34NE	34	.39	.35	.29
138350	8000-40NE	40	.45	.39	.35

\* Universal Connectors Online — Enter Web Code GAU

\* Four Wall Headers Online — Enter Web Code LDV

## PANAVISE Arbor Press, IDC Kit and Cable Cutter

### 2082601: 502 Arbor Press

- Precision ¼ ton (227kg) pressure
- 4 adjustable nylon gibs provide exceptional arm control
- Base footprint: 3.7" x 7" with 4 counter sunk holes • 8" arm
- For low volume mass termination (up to 64-pin conductor wire) of various IDC connectors on ribbon cables



2082601

### 2082610: 506 IDC Kit

- Perfect right angle cut
- Accommodates up to 68-pin, 14 AWG, 3.22" W flat ribbon cable
- Spring loaded blade arm



## 3M .100" (2.54mm) IDC Wiremount Socket Connectors

### .100" x .100" for .050" Pitch Cables



- Insulation: glass filled polyester (PBT), gray, UL94V-0
- 100μ" nickel underplating & U-slot; 30μ" gold wiping area
- Copper alloy contacts
- Current rating: 1A
- Withstanding voltage: 1000V<sub>RMS</sub>
- Insulation resistance: 1MΩ @ 500VDC
- Accepts 26-28AWG solid or stranded wires
- Open end, center bump, military

### 3000 Series With Strain Relief

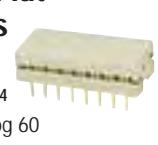
Part No.	Mfr. Part No.	Pos.	1	10	100
1576407	3421-6620A	20	\$2.95	\$2.69	\$2.39

### 8000 Series With Strain Relief

- Contact: phosphor bronze, 30μ" nickel underplating
- Without center bump • Blue Part No. = Limited Quantity

Part No.	Mfr. Part No.	Pos.	1	10	100
1578074	89110-0001A	10	\$.65	\$.59	\$.49

### .100" IDC DIP Flat Cable Plugs



- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Uses 28 AWG flat ribbon cable, pg 60
- Plastic with gold-plated contacts
- Current rating: 1A

Part No.	Cross Ref.	Width	Contacts	1	10	100
42658	8200-14A	0.3"	14	\$.45	\$.39	\$.35
42674	8200-16A	0.3"	16	.55	.49	.45
104097	8200-20A	0.3"	20	.65	.55	.49
42691	8200-24A	0.6"	24	.75	.65	.55
99670	8200-28	0.6"	28	.85	.75	.65
42712	8200-40A	0.6"	40	.95	.85	.75

## JAMECO EXCLUSIVE .100" IDC Plug Connector Double Row

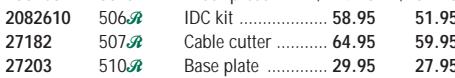
- Shrouded header without mounting ears • Plastic
- Contact: gold-plated phosphor bronze
- Use with IDC socket for connectors above

Part No.	Cross Ref.	Contacts	1	10	100
29217	8400-50	50	\$1.49	\$1.35	\$1.09

## JAMECO ValuePro IDC Centronics Connector

- Contact material: gold plated phosphor bronze; plastic casing
- Current rating: 1 amp
- Temp. rating: -55°C to +105°C
- Use 73252 IDC crimping tool, below left

Part No.	Description	1	10	100
13849	36-pin maleA	\$2.29	\$1.95	\$1.75



## .100" (2.54mm) Non-Polarized Connector Housings & Crimp Pins



103191 103254 100766 145358

- Mates with 0.025" square post on pattern of 0.100" centers (male headers, pg 74)
- Current rating: 1A • Housing material: plastic
- Pin material: brass/tin plated • 26-22 AWG
- Temperature rating: -55°C to +105°C
- Use crimper P/N 159266, pg 161

\* Web Code: YAL

### Single Row

\* Order in multiples of 10

Part No.	Cross Ref. No.	Contacts	1	10	100
100812	SCH2	2	*	\$1.15	\$1.12
157383	SCH3	3	.25	.22	.15
100803	SCH4	4	.29	.25	.19
163686	SCH5	5	.35	.29	.25
103212	SCH6	6	.39	.35	.29
103203	SCH8	8	.45	.39	.35
103191	SCH10	10	.49	.45	.39
103182	SCH20	20	.55	.49	.45
103158	SCH36	36	.59	.55	.49

### Double Row

\* Web Code: SAM

Part No.	Cross Ref. No.	Contacts	1	10	100
103254	DCH8	8	\$1.45	\$1.39	\$1.35
157421	DCH10	10	.49	.45	.39
157438	DCH14	14	.49	.45	.39
103238	DCH16	16	.49	.45	.39
103230	DCH20	20	.55	.49	.45
157462	DCH40	40	.49	.45	.39
157472	DCH50	50	.65	.59	.55

### Crimp Pins for Single/Double Row Housings

- Order in multiples of 10

\* Web Code: XAL

Part No.	Cross Ref. No.	Contacts	10	100	500
100766	FCH1	Female pin	\$1.15	\$1.13	\$0.99
145358	MCH1	Male pin	.19	.15	.12

## .100" MTE AMPMODU Pin Housings



- Single row
- Latched polarization
- Mating lock connector
- 0.100" center line
- Black thermoplastic, UL94V-0

496392

Part No.	Mfr. Part No.	Pos.	1	10	100
496392	103653-1	2	\$35	\$2.29	\$2.25
496405	103653-2	3	.39	.35	.29
496413	103653-3	4	.39	.35	.29

## PC Card-Edge Connectors

\* Web Code: XEE



### Solder Eyelet 0.140" Spacing Between Rows

- Contact centers: 0.156"
- With mounting ears

Part No.	Mfr.	Positions	1	10	100
422983	Cinch	10/20	\$2.49	\$2.25	\$2.09
39117	ValuePro	22/44	3.95	3.55	3.19

### Solder Tail 0.200" Spacing Between Rows

- Contact centers: 0.100"
- Without mounting ears
- Tin

Part No.	Mfr.	Positions	1	10	100
40694	ValuePro	31/62 (PC/AT)	\$.55	\$.49	\$.45
1945049	Various	50/100	.75	.69	.59

\* Card Edge Connectors Online — Enter Web Code YEE



## AMPMODU™ .100" (2.54mm) Receptacle Housing & Contacts

526897

### Single Row, Non-Polarized, Crimp Snap-In (MOD IV)

- No PC with UMN
- Black thermoplastic, flame retardant

Part No.	Mfr. Part No.	Pos.	Width	1	10	100
526871	87499-3	2	0.205"	\$1.95	\$1.85	\$1.75
526889	87499-5	3	0.305"	\$1.95	\$1.85	\$1.75
526897	87499-7	4	0.405"	.55	.49	.45



### Standard Pressure Receptacle Contacts (MOD IV)

- Material: phosphor bronze
- No PC with UMN
- Plating:

Part No.	Mfr. Part No.	Pos.	Width	1	10	100
527419	15u gold in contact area, 100u - 200u bright tin lead, all over 50u nickel	15u gold in contact area, 100u - 200u bright tin lead, all over 50u nickel	527419			
527486	Pre-plated 50u - 150u bright tin	527486				
527419	87523-6			\$1.35	\$1.29	\$1.25
527486	1-87523-6			.25	.22	.15



## HARRIES DIP Headers

\* Web Code: XBS

### Series 600 Headers w/ Coined Contacts

- Standard cover/body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon
- Contact plating: 100u min., tin
- Contact rating: 2A
- Operating temp.: 221°F (105°C) max.
- Fork contacts: accept up to 0.025" (.64mm) dia. leads

Part No.	Mfr. Part No.	Pos.	Width*	1	10	100
291120	08-600-10	8	0.3"	\$1.19	\$1.05	\$1.95
291312	14-600-10	14	0.3"	1.49	1.29	1.05
291574	16-600-10	16	0.3"	1.65	1.45	1.15
291996	24-600-10	24	0.6"	2.55	2.25	1.85



### \* Center to center pin width

## CA .100" DIP Header Plugs

\* Web Code: UBP

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: 0.188" • 0.1" spacing between leads

Part No.	Mfr. Part No.	Width	Pins	1	10	100
104337	08P-2	0.3"	8	\$.95	\$.85	\$.75
37130	14P-2	0.3"	14	1.39	1.25	.99
37331	16P-2	0.3"	16	1.95	1.75	1.49



## PCB Centronics Connector

\* Web Code: VAJ

- Solder-type contacts
- Space between rows: 0.164"
- Space between pins: 0.1"
- Metal body
- PC mount

Part No.	Description	1	10	100
72151	36-contact F, rt angle	\$2.95	\$2.49	\$1.85



\* PCB Connectors Online — Enter Web Code EEN

\* Card Extenders Online — Enter Web Code PAA

\* Keyboard Adapters Online — Enter Web Code RAV



## Jones Plugs and Sockets

### Series 300 Multiple-Density Solder-Eyelet Connectors



248823

- Insulation material: molded monoblock, black phenolic
- Contact material: plug – brass; socket – phosphor bronze
- Contact plating: cadmium
- Current rating: 10 amps
- Operating voltage: 250VAC max.
- Contact resistance: 16mΩ max.
- Hood material: UL 94V-0 rated thermoplastic



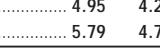
248786

### Sockets with Hood and 180° Clamp



Part No.	Mfr. Part No.	Contacts	1	10
248807	S-302H-CCT	2	\$3.35	\$2.69
248823	S-304H-CCT	4	4.95	4.25
248831	S-306H-CCT	6	5.79	4.79

### Plugs with Hood and 180° Clamp



Part No.	Mfr. Part No.	Contacts	1	10
248760	P-302H-CCT	2	\$2.95	\$2.65
248786	P-304H-CCT	4	3.95	3.49
248794	P-306H-CCT	6	4.49	3.95
445982	P-315-CCT	15	6.95	5.95

### Series 2400 Multiple-Density Solder-Eyelet Connector



444699

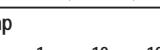
- Current rating: 15A
- Current resistance: 1mΩ max.
- Operating voltage: 250VAC
- Plug prongs are 0.250" W x 0.55" Th.
- For use in cable-to-cable and cable-to-panel applications
- Socket contacts have solder eyelets with 0.093" dia.
- Insulation material: molded monoblock, general purpose phenolic, black
- Contact plating: cadmium
- Contact material: plug-brass; socket-phosphor bronze
- Hood material: formed metal with dielectric liner

### Plug with Hood and 180° Clamp



Part No.	Mfr. Part No.	Contacts	1	10	100
428197	P-2408H-CCT	8	\$10.95	\$9.95	\$8.95

### Socket with Hood and 180° Clamp



Part No.	Mfr. Part No.	Contacts	1	10	100
444699	S-2408H-CCT	8	\$6.95	\$6.39	\$5.69

## FT Connector Assembly SFP Small Form-Factor Pluggable



### AMP

- Right angle 0.8mm pitch
- Contact: phosphor bronze
- Housing: high-temperature LCP UL94V-0 rated, black
- Plating: 0.38u min. gold in contact area, 13u min. gold in solder area, 38u min. nickel underplate

### Part No. Mfr. Part No. Positions 1 10 100

741010	1367073-1	20	\$2.49	\$2.25	\$2.15

## &lt;h3

# Sockets, Receptacles, Plugs & Connectors

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## Mini-DIN & DIN PC Mount Female Sockets



29399

140791

207722

**★ Web Code: DMS**

- Set back: 0.5"

119475: Plastic/metal body 29399: Plastic body

### Unshielded (DIN) - Right Angle

Part No.	Product No.	Description	1	5	25
29399	RD5	5-pin DIN	\$ .69	\$ .59	\$ .45

### Shielded (Mini DIN & DIN) - Right Angle

Part No.	Product No.	Description	1	5	25
140791	MDR4S	4-pin mini DIN	\$ .49	\$ .45	\$ .39
2076720	MDR5S+	5-pin mini DIN	.. .49	.45	.39
119475	MDR6S+	6-pin mini DIN	.. .89	.79	.69
207722	MDR8S	8-pin mini DIN	.. .89	.79	.69
2076746	MDR9S+	9-pin mini DIN	.. .89	.79	.69
2077811	DRA5S+	5-pin DIN	.. .65	.59	.49
29410	RD8	8-pin DIN	.. .65	.59	.49

### Unshielded (DIN) - Straight

**ADAM TECH**

2114159



**NEW**  
MARKED IN PINK

Part No.	Mfr. Part No.	Description	1	10	100
2114132	DJN-003-B	3-pin DIN	\$ .69	\$ .65	\$ .59
2114141	DJN-004-B	4-pin DIN	.75	.65	.55
2114159	DJN-005-B	5-pin DIN	.79	.75	.69
2114167	DJN-006-B	6-pin DIN	.85	.79	.75
2114175	DJN-007-B	7-pin DIN	.89	.85	.79
2114183	DJN-008-B	8-pin DIN	.95	.89	.85

## Mini-DIN & DIN Plugs & Receptacles

**★ Web Code: DAV**

JAMECO

ValuePro

EXCLUSIVE

</

## JAMECO ValuePro D-Sub 9-Pin to 25-Pin Serial Adapters

- For use in AT or other computer systems that have 9-pin D-sub serial ports

**\* Web Code: AAA**

10305



664296: Thumbscrews on both sides

- 10321: For PC/XT systems with DB25 serial ports.

**\* Web Code: AAA**

10305

**\* Web Code: AAA**



- 163740/153576: For PC/XT systems with DB25 serial ports.

**\* Web Code: AAA**

163740



153576

Part No.	Description	1	10	100
10305	DB9 F to DB25 M .....	\$3.15	\$2.65	\$1.95
664296	DB9 M to DB25 M+ .....	.95	.85	.75
10321	DB9 M to DB25 F .....	4.49	3.95	3.65
163740	DB9 M to DB25 F, thumbscrews on DB9 side only .....	1.49	1.35	1.19
153576	DB9 M to DB25 F, thumbscrews on DB25 side only .....	2.95	2.49	1.95

## JAMECO ValuePro Full Handshaking Null Modem Adapter

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.

**\* Web Code: HAD**



- Internal pin configuration:  
1-1, 2-3, 3-2, 4-5, 5-4, 6-20,  
20-6, 7-7, 8-20

Part No.	Description	1	10	100
17224	DB25 F to DB25 F .....	\$3.49	\$3.15	\$2.85

Part No. Description 1 10 100

17224 DB25 F to DB25 F ..... \$3.49 \$3.15 \$2.85

Part No. Description 1 10 100

16643 D-sub 9-pin female..... \$1.49 \$1.35 \$1.19

Part No. Description 1 10 100

16643 D-sub 9-pin female..... \$1.49 \$1.35 \$1.19

## Slim-Line D-Sub Gender Changers



### For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)

**\* Web Code: YAB**

Part No.	Description	1	10	100
18498	9-pin male to male.....	\$2.49	\$2.25	\$1.95
18489	9-pin female to female .....	2.49	2.25	1.95
56063	15-pin female to female .....	2.95	2.65	2.39
119320	15-pin female to female HD.....	2.95	2.65	2.39
119301	15-pin male to male HD .....	2.95	2.65	2.39
18447	25-pin male to male.....	2.95	2.65	2.39
18420	25-pin female to female .....	2.95	2.65	2.39
170085	25-pin male to female (pass thru)	2.95	2.65	2.39

## JAMECO ValuePro D-Sub Gender Changer

**\* Web Code: LAB**

- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender



Part No.	Description	1	10	100
16643	D-sub 9-pin female.....	\$1.49	\$1.35	\$1.19

## Panel Bracket Cable Assemblies

- Standard back panel bracket
- Ribbon cable with header connector

**\* Web Code: RAX**



149623

Part No. Description

1 10 100

355688	DB9M to 10-pin header F .....	\$3.95	\$3.49	\$2.95
1952265	DB9F to 10-pin header F .....	1.95	1.75	1.49
149614	DB9M to 10-pin header & DB25M to 10-pin header .....	3.95	3.49	2.95
149623	DB25F to 26-pin header F .....	3.95	3.49	2.95

## SCSI Adapter

125241: 50-pin ribbon header

**\* Web Code: PAD**



to HPDB50 female SCSI II

Part No. Description

1 5 25

125241	50-pin header to HPDB50 F .....	\$4.69	\$4.29	\$3.89
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## Computer Card Brackets

- For securing cards into bus slots



Fig. 1 2 3 4 5

**\* Web Code: EAM**

Part No. Description

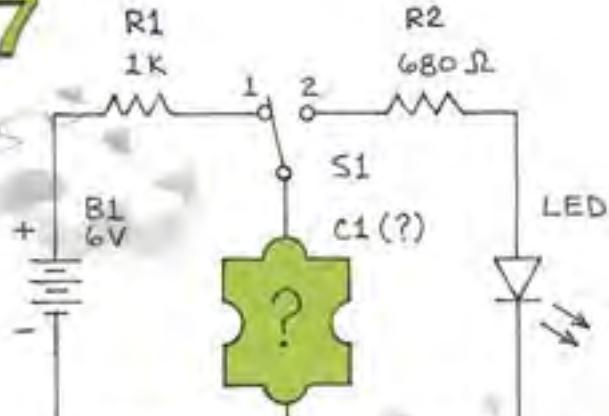
Fig. 1 10 100

11755	Blank back panel.....	1	\$ .95	\$ .85	\$ .75
101717	For DB9 connector .....	2	.35	.29	.25
101733	For DB25 connector .....	3	.29	.25	.19
101742	For DC37 connector.....	4	.49	.39	.29
101831	For DB9/DB25 conn.....	5	.75	.69	.59

# Jameco Puzzler 7

By Forrest M. Mims III

Electronics instructor Ollie Circuits planned to show his class, of freshman electrical engineering students, how to use a super capacitor as a memory back-up capacitor. First, he wanted to show how the students could make their own super capacitor and demonstrate its charge/discharge cycles with this simple circuit, to the right. Most of the components were already on his workbench, the homemade super capacitor would be made from several layers of lemon juice-soaked paper towels interleaved between several layers of a mystery material to form a multi-layer stack. The stacked layers would then be sandwiched between the two copper-clad PC boards and held together with a rubber band. Ollie rushed to a nearby pet shop. What did he buy?



Go to: [www.Jameco.com/clue7](http://www.Jameco.com/clue7) to see if you got it right!

## Clearance Center



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\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# IC Sockets & Single/Dual In-Line Strip Sockets

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## **RIES** Low Profile ZIF Sockets

### Series 526

\* Web Code: UBX



Part No.	Mfr. P/N	Pins	L" x W"	1	5	25
296789	24-526-10R	24	1.45 x .75	\$6.95	\$6.29	\$5.69
102745	28-526-10R	28	1.64 x .75	7.95	7.15	6.45
102753	40-526-10R	40	2.24 x .75	9.75	8.79	7.89

## **RIES**

### High Temp. Universal ZIF Test Sockets

#### Series 6554

\* Web Code: AAN



- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- 10: 100μ" tin over 50μ" nickel
- 11: 10μ" gold over 50μ" nickel
- Operating temperature:  
-10: 221°F (105°C) – tin plating  
-11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS
- Beryllium copper contact plating
- Stainless steel handle
- Center pins: 0.600"
- Insulation res.: 1000MΩ
- Contact current: 1A
- Dielectric withstanding voltage: 1000VAC

Part No.	Mfr. P/N	Pins	L" x W"	1	5	25
103992	24-6554-10R	24	1.8 x 0.9	\$7.75	\$6.95	\$6.29
104003	28-6554-10R	28	2.0 x 0.9	8.95	7.95	6.95
104012	32-6554-10R	32	2.1 x 0.9	9.95	8.95	7.95
104030	40-6554-10R	40	2.5 x 0.9	11.95	10.75	9.69
295162	28-6554-11R	28	1.4 x 0.9	14.95	13.95	12.95
295209	32-6554-11R	32	1.6 x 0.9	11.95	10.95	9.95
295233	40-6554-11R	40	2.0 x 0.9	15.95	14.49	12.95

Part No.	Mfr. P/N	Pins	L" x W"	1	5	25
103992	24-6554-10R	24	1.8 x 0.9	\$7.75	\$6.95	\$6.29
104003	28-6554-10R	28	2.0 x 0.9	8.95	7.95	6.95
104012	32-6554-10R	32	2.1 x 0.9	9.95	8.95	7.95
104030	40-6554-10R	40	2.5 x 0.9	11.95	10.75	9.69
295162	28-6554-11R	28	1.4 x 0.9	14.95	13.95	12.95
295209	32-6554-11R	32	1.6 x 0.9	11.95	10.95	9.95
295233	40-6554-11R	40	2.0 x 0.9	15.95	14.49	12.95

JAMECO  
ValuePro

### .100" Single-In-Line Machine Tooled Strip Sockets



78642

104054

\* Web Code: KAM

- Machine tooled
- Solder tail or wire wrap
- Standard lead length: .160"
- Single or double row

Part No. Description 1 10 100

164822	4-pin straight single row	\$.75	\$6.65	\$5.59
138684	5-pin straight single row	.75	.65	.59
2100339	7-pin straight single row	.99	.89	.69
102201	10-pin straight single row	1.19	.95	.75
2100347	12-pin straight single row	1.29	1.09	.85
78642	30-pin straight single row	1.49	1.29	.95
175920	36-pin straight single row	1.75	1.59	1.29
101283	20-pin WW2 single row	1.95	1.75	1.59
104054	30-pin WW3 single row	2.95	2.59	2.39

† Lead length: .435"(2) \* Lead length: .575" (3)

## **RIES** SOIC/SOJ to DIP Adapters

### Board material: 0.062" thick



- FR-4 w/ 1 oz. copper traces on both sides
- Brass alloy pins with 200μ" (5.08μm) min. tin plating
- Operating temperature: 221°F (105°C) max.
- Suggested PCB hole size: 0.028"Dia. (0.71mm)
- Center pins: 0.300" (7.62mm)

\* Web Code: YBS

Part No.	Mfr. P/N	Pins	L" x W"	1	10	100
291208	08-350000-10R	8	.400 x .46	\$5.95	\$5.35	\$4.79
291292	14-350000-10R	14	.700 x .45	5.95	5.39	4.79
291515	16-350000-10R	16	.800 x .45	6.39	5.75	5.15
291980	24-350000-10R	24	1.20 x .45	6.59	5.95	5.35

## **RIES** Series 800 Vertisocket

### With Bifurcated Contacts



- Body material: UL 94-HB glass filled nylon
- Phosphor bronze spring tempered bifurcated contacts
- Contact current: 1.5A
- Gold plated
- Contact plating: 100μ" (2.54μm) tin or 10μ" (.254μm) gold
- Center pins: 0.200"
- Suggested PCB hole size: 0.044"Dia. (1.12mm)

Part No.	Mfr. P/N	Pins	L" x W"	1	10	100
291485	14-823-90	14	1.4 x .39	\$2.49	\$2.29	\$1.95

## **RIES**

### Universal SOIC to .600" DIP Adapter

#### Series 647



- Brass alloy female pin body with 200μ" (5.08μm) tin/lead plating
- Beryllium copper 4-fingered collet contact with 10μ" (0.25μm) gold over nickel plating
- Phosphor bronze alloy male pin with 200μ" (5.08μm) tin/lead plating
- Contact current: 3A
- Suggested PCB hole size: 0.028"Dia.

Part No.	Mfr. P/N	Positions	1	5
295283	44-647-10	44	\$69.95	\$63.95

## Audio/Video Adapter

- Converts impedance of video/audio signals (NTSC & PAL) to 100Ω for transmission over CAT 5 UTP cable
- Video trans. distance: 1000' color/2000' black/white
- Signal pair: Video (BNC), CAT pair 1 (RJ45)

Part No.	Description	1	5
210471	BNC/RJ45 with cable	\$12.95	\$11.95

## We're Listening to What You Need

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Let us know how we can better serve your electronic needs. Send feedback to Management@Jameco.com.



## RF Adapters

\* Web Code: RFS

Part No.	Manufacturer	Product No.	Description	1	10	50
153454	ValuePro	SB-321R	SMA female to BNC male	\$2.59	\$2.29	\$2.09
159469	ValuePro	CH-7830-NR	SMA female to BNC female	3.59	3.09	2.89
153593	ValuePro	4288R	SMA male to BNC male	3.95	3.55	3.19
159477	ValuePro	CH-7820-NR	SMA male to BNC female	3.95	3.55	3.25
1951692	Amphenol Connex	242102R	SMA in-line plug to BNC jack	3.69	3.29	2.95
1951713	Amphenol Connex	242113R	SMA in-line jack to N plug	7.45	6.75	6.25
1951764	Amphenol Connex	242127R	SMA female to MCX male	11.95	10.95	9.95
1951887	Amphenol Connex	2421124R	SMA in-line plug to TNC jack	6.95	6.39	5.69
1951772	Amphenol Connex	242105R	SMA in-line jack to TNC plug	5.49	4.95	4.49
1951852	Amphenol Connex	242131R	N-female to TNC male	9.95	8.95	7.95
1951721	Amphenol Connex	242141R	SMA jack to MMCX plug	12.95	11.95	10.95
1951748	Amphenol Connex	242149R	BNC in-line jack to TNC plug	5.95	5.25	4.75
1951705	Amphenol Connex	242156R	N-plug to F jack	9.95	8.95	7.95
1951781	Amphenol Connex	242185R	BNC jack to SMB plug	9.95	8.95	7.95

Continued on next page

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.



RF Adapters (Continued)				★ Web Code: RFS		
Part No.	Manufacturer	Product No.	Description	1	10	50
207168	ValuePro	BJ-7072A	RCA female to BNC female .....	\$2.39	\$2.15	\$1.89
114789	ValuePro	BR312A	RCA female to BNC male .....	.1.59	1.25	1.15
207176	ValuePro	BJ-7055A	RCA male to BNC male .....	2.95	2.55	2.25
114753	ValuePro	RB312	RCA male to BNC female .....	.1.59	1.45	1.29
114770	ValuePro	200-108	BNC female to F connector male .....	1.79	1.59	1.39
174255	ValuePro	TBC-176A	BNC male to F connector female .....	2.35	1.85	1.69
309657	ValuePro	200-045	RCA female to F male adapter .....	1.49	1.35	1.19



50Ω TNC Connectors				★ Web Code: TNC		
Part No.	Manufacturer	Mfr. Part No.	Description	1	10	50
658611	Amphenol Connex	122140A	Right angle crimp/solder plug (RG-58/58A/58C/141/303) .....	\$2.95	\$2.69	\$2.45
296163	Amphenol Connex	122372A	Straight crimp plug (RG-55/142/223/400) .....	1.39	1.25	1.09
296155	Amphenol Connex	122108A	Plug crimp-crimp (RG-58/141) .....	1.25	1.09	.95
2098275	Amphenol Connex	122108RP	Plug crimp-crimp reverse polarity (RG-58/141) .....	1.99	1.89	1.75



50Ω MMCX Connectors				★ Web Code: MMCX		
Part No.	Manufacturer	Cross Ref. No.	Description	1	10	50
311686	ValuePro	908-43200	Right angle plug, crimp (RG-178/U) .....	\$3.39	\$3.09	\$2.79
311693	ValuePro	908-43300	Right angle plug, crimp (RG-174/188/316) .....	2.25	1.95	1.75



UHF Connectors & Adapters				★ Web Code: UCA		
Part No.	Manufacturer	Mfr. Part No.	Description	1	10	50
223837	Amphenol RF	83-1T	In-series T-adapter, jack-plug-jack .....	\$8.95	\$7.95	\$6.95
668377	Amphenol Connex	182106A	PL-259 Straight adapter, nickel finish, phenolic insulator .....	3.25	2.95	2.75
668385	Amphenol Connex	182107A	UG-175-U Reducing adapter, nickel finish, for 668377 .....	.55	.49	.39



50Ω Type N Connectors				★ Web Code: TNC			
Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
697039	Amphenol RF	82-66A	1	Jack-to-jack adapter, water tight .....	\$22.95	\$21.95	\$20.95
311600	ValuePro	82-97	2	50Ω receptacle jack, panel mount .....	3.65	2.95	2.55
311619	ValuePro	82-202-1006A	3	N-clamp plugs, for B9913/TWB301 cables .....	3.95	3.59	3.29
296454	Amphenol Connex	172100A*	4	Crimp plug captive contact (RG-58/58A/58C/141/303/LMR195/B7806A) .....	3.95	3.55	3.19
296489	Amphenol Connex	172103A	5	Crimp jack captive contact (RG-58/58A/58C/141/303/LMR195/B7806A) .....	3.49	3.19	2.95
659278	Amphenol Connex	172119A	6	Panel receptacle jack, solder terminal (all 50Ω coax cables) .....	5.95	5.49	4.95
659286	Amphenol Connex	172122A	7	Plug-to-plug adapter (all 50Ω coax cables) .....	6.85	6.55	6.19
1956581	Amphenol Connex	172123A	8	Jack-to-jack adapter .....	3.49	3.19	2.95
659294	Amphenol Connex	172123A*	9	Jack-to-jack adapter .....	4.95	4.45	3.95
659307	Amphenol Connex	172124A*	10	Bulkhead jack-to-jack adapter .....	7.95	7.29	6.59
659315	Amphenol Connex	172126A	11	Angled plug-to-jack adapter .....	9.95	8.95	7.95
296518	Amphenol Connex	172129A	12	Bulkhead crimp jack captive contact (RG-174/188A/316/B7805A) .....	5.49	4.95	4.49
296569	Amphenol Connex	172138A	12	Bulkhead solder jack, .085 semi-rigid (RG-405/U) .....	4.49	3.95	3.69
296585	Amphenol Connex	172165A	12	Bulkhead crimp jack captive contact (RG-316/U double braided) .....	3.95	3.69	3.39
659235	Amphenol Connex	172173A	13	Crimp panel jack captive contact (RG-174/188A/316/B7805A) .....	4.49	3.95	3.59
659171	Amphenol Connex	172180A	14	Right angle crimp plug (RG-174/188A/316/B7805A) .....	5.49	4.95	4.49

\* Use crimp tool 667921 (below)



75Ω "F" Connectors, Adapters & Terminators				★ Web Code: FCA			
Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
291531	ValuePro	200-028	15	Perma-seal, RG-6 coax .....	\$.79	\$.69	\$.65
291725	ValuePro	200-051	16	F-jack to jack (gold) .....	1.39	1.25	1.15
295371	ValuePro	200-053	17	F-panel mount jack to jack (nickel) .....	.29	.25	.19
295380	ValuePro	200-107	18	F-right angle jack to plug (nickel) .....	2.35	1.95	1.65
1952943	Foxconn	200-190	19	F-right angle PC mount jack (90° barrel) .....	.75	.69	.65
289887	ValuePro	200-035	20	F-crimp on for RG-6, nickel plated .....	.25	.22	.15
2098267	Amphenol Connex	222113A	21	F-crimp plug, 75Ω, for RG-179U .....	1.09	.95	.79
2099737	ValuePro	25-7010	21	F-crimp on plug for RG-6, nickel plated, 2 pcs. ....	.79	.69	.59



Part No.	Manufacturer	Product No.	Die Cavities (in.)	Cable Groups	1	5
667850	Amphenol Connex	47-10070	.255/.213/.068	RG-55/58/59/62/141/142/223/303/400 (BNC/TNC) .....	\$74.95	\$69.95
667905	Amphenol Connex	47-10150	.178/.128/.068	RG-174/188/316/179/187/180/195/178/196 (BNC/TNC) .....	74.95	69.95
667921	Amphenol Connex	47-10180	.255/.213/.100/.068/.052	5 cavity RG-58/59 N/BNC/TNC/SMA connectors .....	74.95	69.95
667850	Various	DL-806A	.255/.213/.068	For RG-58/59, BNC/TNC connectors with 3/8" ferrule .....	17.95	15.95
261745						

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

# BNC Connectors, Adapters & Terminators

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## Plugs

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
355099	ValuePro	31-2A	1	50Ω plug, clamp, for RG-58/141/142/400 (UG-88/U) .....	\$2.29	\$2.15	\$1.95
223431	Amphenol RF	31-202	1	50Ω plug, solder cup, for RG-141/58/58C/B7806A .....	3.95	3.55	3.19
355135	ValuePro	31-212	1	50Ω/75Ω plug, clamp, for RG-59/62/140/302 .....	2.29	2.15	1.95
311378	ValuePro	31-315	2	50Ω plug, 3 pcs, crimp, for RG-174; 188/U .....	4.49	3.95	3.59
355216	ValuePro	31-315-RFXA	1	50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U .....	1.95	1.75	1.55
188349	Amphenol RF	31-315-RFX	1	50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U .....	2.29	1.95	1.75
188306	Amphenol RF	31-320-RFXA	1	50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A .....	1.49	1.25	1.15
355240	ValuePro	31-320-RFX	3	50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A .....	1.79	1.59	1.39
311394	ValuePro	31-321	4	50Ω plug, 3 pcs, crimp, for RG-59/U .....	2.95	2.69	2.39
311408	ValuePro	31-321-RFX	4	50Ω plug, 3 pcs, crimp, for RG-59 .....	1.29	1.15	.95
135618	ValuePro	200-141	3	75Ω plug, 3 pcs, crimp, for RG-6 .....	1.39	1.19	1.09
71781	ValuePro	200-142	5	75Ω plug, twist-on, for RG-59 .....	1.25	1.15	.95
71271	ValuePro	200-143	3	75Ω plug, 3 pcs, crimp, for RG-59 .....	1.15	.95	.89
119394	ValuePro	200-144	6	75Ω plug, clamp-on, for RG-59 .....	.95	.85	.75
71482	ValuePro	200-145	3	50Ω plug, 3 pcs, crimp, for RG-58 .....	1.65	1.49	1.45
108994	ValuePro	200-146	5	50Ω plug, twist-on, for RG-58 .....	.69	.63	.55
355362	ValuePro	6775	7	50Ω plug, clamp, for RG-8/9/87A/213/214/225 .....	2.95	2.65	2.39
295953	Amphenol Connex	112116A*	8	50Ω crimp plug, captive contact, for RG-58/58A/58C/141/303 .....	1.49	1.35	1.19
296008	Amphenol Connex	112132A	8	50Ω crimp plug, captive contact, for RG-174/188A/316/B7805A .....	2.49	2.25	1.75
2098259	Amphenol Connex	112521A	3	50Ω plug, 3-PC, crimp, for Belden 1865A/8218/B1417B/B1164B/RG-B809 .....	1.69	1.39	1.29
311319	ValuePro	68175-5RFX	4	50Ω/75Ω plug, 3 pcs, crimp, for RG-59 .....	1.29	1.15	.89
311327	ValuePro	69475A	7	50Ω/75Ω plug, clamp, for RG-174/179/187/188/316 .....	1.95	1.75	1.55
207183	ValuePro	BJ-70941	9	50Ω/75Ω male clamp-on, for RG-58/59 .....	2.29	2.15	1.95
112110	ValuePro	G7409A	3	50Ω male with pin and ferrule, for RG-174 .....	3.59	3.25	2.95
311511	ValuePro	31-7000	10	75Ω plug, 3 pcs, crimp, for RG-6/212; Belden 9290/89248 .....	2.49	2.25	1.95
311520	ValuePro	31-70008-1000	10	75Ω plug, 3 pcs, crimp, for RG-59/62; Belden 8241/8263/8279/9209 .....	3.95	3.49	2.95
311538	ValuePro	31-71000-RFX	11	75Ω plug, 3 pcs, crimp, for RG-6/212; Belden 9290/89248 .....	1.89	1.75	1.35
311546	ValuePro	31-71008-RFX	11	75Ω plug, 3 pcs, crimp, for RG-59/62; Belden 8241/8263/8279/9209 .....	1.89	1.49	1.39
311554	ValuePro	31-71013-RFX	12	75Ω plug, 3 pcs, crimp, for RG-179/179B/187A; Belden 9221 .....	1.69	1.55	1.29
311572	ValuePro	31-71032A	3	75Ω plug, 3 pcs, crimp, for RG-59/140; Belden 8241/8279 .....	2.95	2.49	1.95
295970	Amphenol Connex	112119A*	8	75Ω crimp plug, captive contact, for RG-59/62/140/210 .....	1.49	1.35	1.19
296016	Amphenol Connex	112133A†	8	75Ω crimp plug, captive contact, for RG-179/187/B9221 .....	1.95	1.75	1.59
2098241	Amphenol Connex	112491-10A	3	75Ω crimp plug, for 100MHz RGB cable .....	2.39	1.95	1.75

\* Blue Part No. = Limited Quantity Available

## Terminators

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
71458	ValuePro	B-611T	13	BNC male terminator (50Ω) .....	\$1.95	\$1.39	\$1.19
71790	ValuePro	200-177	13	BNC male terminator (75Ω, 5%) .....	1.65	1.29	1.09
658540	Amphenol Connex	202100A	14	Male cap with chain .....	2.15	2.05	1.95
658523	Amphenol Connex	202103A	15	50Ω terminator plug .....	2.25	1.89	1.69
658531	Amphenol Connex	202105A	15	75Ω terminator plug .....	1.75	1.69	1.49

## Jacks

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
355120	ValuePro	31-203A	16	50Ω jack, panel mount, solder cup .....	\$2.95	\$2.65	\$2.25
355224	ValuePro	31-318-RFXA	17	50Ω bulkhead jack, crimp, for RG-174/U; 188A/U; 316/U .....	2.49	2.25	1.95
355178	ValuePro	31-221	18	50Ω jack, panel mount, solder cup (UG-1094/U) .....	1.95	1.75	1.59
223511	Amphenol RF	31-221A	19	50Ω jack, panel mount, solder cup .....	2.25	1.95	1.75
658401	Amphenol Connex	112235A†	20	75Ω bulkhead jack, crimp, for RG-179/U; 187A/U .....	2.75	2.49	2.25
658427	Amphenol Connex	112424A	21	50Ω bulkhead jack, solder terminal .....	1.85	1.65	1.49
296067	Amphenol Connex	112431A	22	50Ω bulkhead jack, isolated, solder terminal .....	3.29	3.19	2.95
658380	Amphenol Connex	112505A	20	50Ω bulkhead jack, crimp, for RG-55/U; 142A/U; 223/U; 400/U .....	2.69	2.39	2.19
658443	Amphenol Connex	112538A	23	50Ω jack, PCB mount, for all 50Ω coax cables .....	1.39	1.25	1.09
493917	AMP	227161-3	24	50Ω jack, right angle, PCB .....	2.49	2.25	1.95
421331	AMP	227726-3	25	50Ω jack, isolated, solder .....	2.49	2.25	1.95
111561	ValuePro	200-148	26	Jack, isolated, panel mount .....	2.29	1.95	1.79
160929	ValuePro	B211F-58A	27	Jack, crimp type, for RG-58 .....	1.49	1.25	1.15
161922	ValuePro	B211F-174A	27	Jack, crimp type, for RG-174 .....	1.95	1.65	1.45
2077618	Various	BNC-CR	28	Jack, chassis PCB receptacle .....	.75	.65	.59
146511	ValuePro	CH-7044SA	29	Jack, right angle, plastic insulation, PC mount, w/ washer & nut .....	2.69	2.39	2.05
161656	ValuePro	CH-7087D	30	Jack, right angle, metal, PC mount .....	1.95	1.75	1.49
71590	ValuePro	G1B235A	31	Jack, panel mount (UG-1094A) .....	1.95	1.79	1.65
1952821	Foxconn	KDA1001-H0	32	Jack, right angle, plastic insulation, PC mount .....	.95	.89	.75
174290	ValuePro	TBC-090A	16	Jack, chassis mount .....	1.85	1.59	1.19
174297	ValuePro	TBC-101	33	Jack, twist on, bulkhead .....	1.29	1.09	.95

\* Use tool 667850, pg 85   † Use tool 667905, pg 85

A RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).



## 50Ω/75Ω BNC Connectors and Adapters (Continued)

### Adapters/Couplers

\* Web Code: BCA

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
311344	ValuePro	31-10-RFX 	1	50Ω jack, bulkhead .....	\$2.45	\$2.25	\$1.95
188429	Amphenol RF	31-208-RFX 	2	Jack-plug-jack .....	4.25	3.75	3.39
363961	ValuePro	31-218	3	50Ω straight adapter, plug-plug (UG-491A/U) .....	3.95	3.55	3.19
188411	Amphenol RF	31-219-RFX 	4	50Ω straight adapter, jack-jack .....	3.95	3.49	3.15
355152	ValuePro	31-219-RFX 	4	50Ω straight adapter, jack-jack (UG-914/U) .....	3.25	2.39	2.09
311351	ValuePro	31-220N-RFX	5	50Ω bulkhead adapter, jack-jack .....	2.39	2.19	1.95
72629	ValuePro	200-150	6	Female to female/female T-adapter .....	1.95	1.75	1.55
118594	ValuePro	200-155	7	Male to female/female T-adapter .....	1.95	1.75	1.55
71909	ValuePro	200-160	8	Female/female coupler (UG-914) .....	1.29	.95	.85
148224	ValuePro	200-165	9	Coupler, jack-jack, panel mount .....	1.95	1.89	1.69
100597	ValuePro	40958-Y	10	Male to female/female T-adapter (180°) .....	6.95	6.25	5.65
658451	Amphenol Connex	112437 	11	50Ω jack-to-jack bulkhead adapter (all 50Ω coax cables) .....	2.95	2.85	2.75
658507	Amphenol Connex	112445 	4	50Ω straight adapter, jack-jack .....	2.69	2.49	2.25
2115485	Emerson	27-8140	3	50Ω T-adapter, jack-plug-jack .....	1.65	1.49	1.25
296083	Amphenol Connex	112446 	4	75Ω straight adapter, jack-jack .....	2.25	1.89	1.69
658515	Amphenol Connex	112461 	12	50Ω T-adapter, jack-plug-jack .....	2.39	2.19	1.95
117461	ValuePro	B-068	13	Male to female/female F-adapter (90°) .....	3.95	3.55	3.19
127343	ValuePro	B-311	3	Male/male coupler (UG-491B/U) .....	2.39	2.05	1.69
148232	ValuePro	B-332-IF	9	Coupler, jack-jack, isolated .....	1.95	1.75	1.49
127352	ValuePro	B-412 	14	Male to female right angle (DG-306B/O) .....	3.79	2.85	2.15
207095	ValuePro	BJ-7079 	15	Female to male/male T-adapter .....	3.95	3.49	2.95
207116	ValuePro	BJ-7082	16	Male to female/female T-adapter .....	3.95	3.49	2.95

Blue Part No. = Limited Quantity Available



## SMA/SMB Connectors

\* Web Code: SET

Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
157972	ValuePro	19-03F-4TGG	17	Straight crimp type male plug (RG-58)	Gold ....	\$3.95	\$3.59	\$3.29
145382	ValuePro	19-46G 	18	Straight female PCB mount, 4 legs	Gold ....	3.95	3.59	3.29
145374	ValuePro	19-49G 	19	90° female PCB mount, 4 legs	Gold ....	3.95	3.59	2.95
355283	ValuePro	901-143-6-RFX 	20	Jack, right angle, PC mount	Gold ....	4.95	4.45	3.95
188525	Amphenol RF	901-143-6-RFX 	20	Jack, right angle, PC mount	Gold ....	4.95	4.49	3.95
188509	Amphenol RF	901-144-8-RFX 	18	Jack, right angle, PC mount	Gold ....	3.49	3.15	2.85
355292	ValuePro	901-9876-RFX 	21	Straight plug, crimp (RG-58/U; RG-58C/U; 141)	Nickel ....	2.55	2.19	1.79
188488	Amphenol RF	901-9877-RFX 	22	Straight plug, crimp (RG-174/U; RG-188AU; RG-316/U)	Gold ....	2.95	2.65	2.39
355304	ValuePro	901-9877-RFX 	22	Straight plug, crimp (RG-174/U; RG-188AU; RG-316/U)	Gold ....	2.49	2.25	1.95
153366	ValuePro	4804 	22	Straight crimp type male plug (RG-174)	Gold ....	2.95	2.65	2.39
296227	Amphenol Connex	132101 	23	Straight cable plug w/ contact (RG-405U)	Gold ....	2.79	2.49	2.25
296251	Amphenol Connex	132105 	24	Bulkhead feed-through jack (RG-405U)	Gold ....	3.49	3.19	2.95
296315	Amphenol Connex	132113 	23	Straight crimp plug (RG-58/58A/58C/141/303)	Gold ....	2.69	2.39	2.19
296323	Amphenol Connex	132114 	23	Straight crimp plug (RG-174/188/316/B7805A)	Gold ....	2.95	2.69	2.39
658849	Amphenol Connex	132118 	25	Bulkhead crimp jack (RG-58/58A/58C/141/303)	Gold ....	3.49	3.19	2.95
296331	Amphenol Connex	132119 	25	Bulkhead crimp jack (RG-174/188A/316/B7805A)	Gold ....	3.95	3.69	3.39
296366	Amphenol Connex	132123 	26	Right angle crimp plug (RG-174/188A/316/B7815A)	Gold ....	4.49	3.95	3.69
296374	Amphenol Connex	132134 	18	Straight jack, PCB	Gold ....	2.95	2.69	2.39
658996	Amphenol Connex	132136 	19	Right angle jack, PCB	Gold ....	3.95	3.69	3.39
658961	Amphenol Connex	132198 	27	Straight crimp jack (RG-316U double braided)	Gold ....	3.49	2.95	2.65
159531	ValuePro	CH-7814-G 	28	Female panel mount, 4 mounting holes (G-58/174)	Gold ....	3.75	3.15	2.95
160022	ValuePro	CH-7815-G 	29	Female panel mount, 2 mounting holes (RG-58/174)	Gold ....	4.79	3.75	3.55
160013	ValuePro	CH-7818-N 	30	Panel mount feed thru, female-female	Nickel ....	4.95	4.25	3.75
153286	ValuePro	SMA-7813 	31	Bulkhead solder female w/ washer, rear mount (RG-58/174)	Gold ....	2.95	2.65	2.39

\* Use crimp tool 667905, pg 85      † Use crimp tool 667921, pg 85      1 Solder cup

\* Web Code: SCS

### SMB Connectors

Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
444824	Cinch	SMB50-1301	32	50Ω jack, straight, PCB mount	Gold ....	\$3.39	\$3.09	\$2.89
659358	Amphenol Connex	142186 	33	Straight crimp plug (RG-174/188A/316/B7805A)	Gold ....	4.95	4.49	3.95
167312	ValuePro	24-12-2TGG-R 	34	Right angle jack, PCB mount	Gold ....	3.49	3.19	2.95
172364	ValuePro	24-07L-1-TGG 	35	50Ω bulkhead crimp jack	Gold ....	3.69	3.29	2.95
172372	ValuePro	24-05L-1-TGG-R 	36	50Ω cable crimp plug	Gold ....	2.95	2.65	2.39

SMA Adapters, Couplers & Terminator on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



## SMA Adapters, Couplers and Terminator

Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
659032	Amphenol Connex	132168A	1	50Ω plug-to-plug adapter	Gold .....	\$5.95	\$5.35	\$4.79
659041	Amphenol Connex	132169A	2	50Ω jack-to-jack adapter	Gold .....	5.49	4.95	4.45
659059	Amphenol Connex	132170A	3	50Ω jack-to-jack adapter, bulkhead feed-through	Gold .....	6.49	6.25	5.95
659067	Amphenol Connex	132171A	4	50Ω plug-to-jack adapter	Gold .....	4.49	3.95	3.49
659075	Amphenol Connex	132172A	5	50Ω right angle plug-to-jack adapter	Gold .....	5.95	5.49	4.95
659083	Amphenol Connex	202112A	6	Plug cap	Nickel .....	1.19	1.09	.95
161294	ValuePro	S-311-GA	7	Straight coupler male-male	Gold .....	2.95	2.65	2.39
161307	ValuePro	S-412-GA	8	Right angle coupler male-female	Gold .....	4.95	4.45	3.95
153294	ValuePro	SMA-7817A	9	Straight coupler female - jack-to-jack	Gold .....	3.49	3.15	2.79

JAMECO  
ValuePro

## SMA/SMB 50Ω Coax Cables



Fig. 1: SMA right angle male to SMA female   \* Web Code: PAY

Fig. 2: SMA male to SMA male

Fig. 3: SMA male to SMA right angle male

Fig. 4: SMA right angle male to SMA right angle male

Fig. 5: SMB plug female to SMB plug female

Part No.	Cable	Fig.	Lghth (ft.)	1	10	50
2099391	RG-58A	1	0.5 .....	\$2.95	\$2.75	\$2.49
159371	RG-58A	2	2 .....	4.95	4.49	3.95
159397	RG-58A	2	6 .....	5.95	5.35	4.75
169801	RG-174A	2	0.5 .....	4.75	4.25	3.75
163855	RG-174A	2	1 .....	4.95	4.49	3.95
153382	RG-174A	2	2 .....	4.95	4.49	3.95
153391	RG-174A	2	4 .....	5.25	4.75	4.25
159451	RG-174A	2	6 .....	7.95	6.95	6.25
175127	RG-174A	3	0.5 .....	4.95	4.49	3.95
175135	RG-174A	3	1 .....	4.95	4.49	3.95
175143	RG-174A	4	0.5 .....	4.95	4.49	3.95
175152	RG-174A	4	1 .....	5.95	5.35	4.75
175178	RG-174A	5	1 .....	4.95	4.49	3.95

AVOCO

## Fiber Optic Transceivers

Part No.	Mfr. Part No.	Description	1	5
1553336	HFBR-53A5VEM	850nm, SC duplex 3.3V, E shield .....	\$94.95	\$84.95
1553352	HFBR-5710LP	For gigabit ethernet .....	94.95	84.95
1584722	HFBR-5701LP	For gigabit ethernet & fiber channel .....	94.95	84.95

## Miniature Link Package Transmitters

Part No.	Mfr. Part No.	Description	1	5
1584562	HFBR-1404Z	SMA, Tx high power .....	\$14.95	\$13.49
1552616	HFBR-1412	ST, Tx standard power .....	11.95	10.95
1552624	HFBR-1412T	ST, Tx standard power, threaded port .....	11.95	10.95
1552632	HFBR-1412TM	ST, Tx standard power, threaded/metal port .....	14.95	13.49
1584571	HFBR-1412TZ	ST, Tx standard power, threaded port .....	14.95	13.49
1552641	HFBR-1414	ST, Tx high power .....	16.95	13.95
1584597	HFBR-1414TZ	ST, Tx high power, threaded port .....	12.95	11.95

## Miniature Link Package Receivers

Part No.	Mfr. Part No.	Description	1	5
1584642	HFBR-2402Z	SMA, Rx, 5MBd, TTL output .....	\$14.95	\$12.95
1552894	HFBR-2412	ST, Rx, 5MBd, TTL output .....	11.95	10.95

## Discrete Optical Components

Part No.	Mfr. Part No.	Description	1	5
1552587	HFBR-1312T	32/160 MBd, 5000m, ST .....	\$33.95	\$31.95
1552595	HFBR-1312TZ	32/160 MBd, 5000m, ST .....	44.95	39.95
1552851	HFBR-2316T	32/160 MBd, 5000/2000m, ST .....	35.95	32.95
1552860	HFBR-2316TZ	32/160 MBd, 5000/2000m, ST .....	44.95	39.95

Blue Part No. = Limited Quantity Available

## Fiber Optics



\* Web Code: NBR

## BNC Male Coax Cables

Part No.	Cross Ref. No.	Length (ft.)	1	10	50
181308	CRG58-1RR	1 .....	\$3.95	\$3.55	\$3.19
102315	CRG58-1A	1.5 .....	3.95	3.55	3.19
256743	CBB-224-24	2 .....	4.95	4.49	3.95
11404	CRG58-3	3 .....	4.95	4.49	3.95
102331	CRG58-6	6 .....	3.95	3.55	3.19
180822	CRG58-10	10 .....	4.95	4.49	3.95
102350	CRG58-12A	12 .....	4.95	4.49	3.95
169818	CRG58-15	15 .....	5.95	5.35	4.75
102357	CRG58-25	25 .....	6.95	6.25	5.49
102365	CRG58-50	50 .....	9.95	8.95	7.95
102381	CRG58-100	100 .....	12.95	11.49	9.95

## "F" Connector Patch Cables

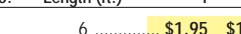
### RG58/U 75Ω

- For use with cable TV and video



### RG-6 75Ω

- For use with cable TV and video



### RG174/U 50Ω Network & Oscilloscope Cables

#### RG174/U 75Ω CATV & Video Patch Cords

#### RG59/U 75Ω

Part No.	Cross Ref. No.	Length (ft.)	1	10
287101	205-415BK	6 .....	\$1.95	\$1.75
297668	205-440BK-GW1B	75 .....	4.95	4.49



## Versatile Link Package Transmitters

Part No.	Mfr. Part No.	Description	1	5
1552712	HFBR-1521	5MBd, 20 POF, -40°C to 85°C .....	\$6.95	\$6.39
1552739	HFBR-1523	40kBd, 110 POF, -40°C to 85°C .....	9.95	8.95
1552763	HFBR-1527	32/125MBd, 40/30 POF, 1000/100 HCS, 0°C to 70°C .....	9.95	8.95
1552771	HFBR-1528	10MBd, 100 POF, 900 HCS, 40°C to 85°C .....	9.95	8.95
1552798	HFBR-1532	1MBd, 45 POF, 0°C to 70°C .....	7.95	6.95

## Versatile Link Package Receiver

Part No.	Mfr. Part No.	Description	1	5
1553109	HFBR-2532	1MBd, 45 POF, 0°C to 70°C .....	\$6.95	\$6.39

## 2-Channel Enclosed Encoder

Part No.	Mfr. Part No.	Description	1	5
1584538	HEDS-9100SH00A	2-ch, incremental encoder, 400CPR .....	\$16.95	\$15.49

\* RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## 10' Fiber Optic Cable

\* Web Code: QAA

1000μm core jacketed plastic fiber optic cable (10')	
Part No. Mfr. Part No. 1 10	

171272 IF-C-E1000 ..... \$5.95 \$5.35

## Fiber Optic Lab Kit

Teaches the fundamentals of fiber	
9 different activities	• Ideal for the lab environment
Part No. Mfr. Part No. 1 5	

169914 IF-LMH ..... \$59.95 \$49.95

## 3M Spring Connectors



285683

285691

285704

285683: #22 to #12AWG, orange with blue skirt

285691: #18 to #8 to 5#12 AWG, red w/ yellow skirt

285704: #14 to #6 to 3#8 AWG, blue w/ gray skirt

\* Order in multiples of 10

Part No. Mfr. Part No. 1 10 100

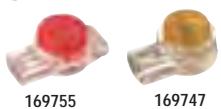
285683 3M O/B+ ..... \* \$15 \$12

285691 3M R/Y+ ..... \* .15 .12

285704 3M B/G+ ..... .39 .37 .32

## EGE Telecom Splice Connectors

Provides clean, solid and rapid connection of wires to keep lines free of noise



169755

169747

169755: Y-type

Part No. Color AWG Conductors 1 10 100

169747 Yellow 22-26 2 ..... \$25 \$22 \$15

169755 Red 19-26 3Y ..... .29 .25 .19

## Wire Connectors



182450

182511

140717

• Material: UL approved nylon 66, 94V2  
• Strip wire before application • Twist on type

182450: Nylon 66, 94-2 UL/CSA approved

140717: PE - metal inside Order in multiples of 10

Part No. Description 10 100 1000

140717 Wire IDC 22-18 AWG ..... \$09 \$07 \$05

182511 Wire nut 16 AWG ..... .09 .07 .05

182450 Crimp 16-14 AWG\* ..... .19 .15 .12

\* Requires crimping tool (P/N 72996, pg 91)

\* Wire Caps Available Online — Enter Web Code QBZ

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## CINCH Double Row Barrier Blocks

- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel with nickel over copper flash plating
- Solder terminal material: brass w/ electro-tin plating

\* Web Code: YBM

### 140 Series 15A

- 3750-watts/terminal max.
- 16 AWG wire max.
- Size: 0.88" W x 0.41" H
- Screw: 5-40 x 3/16"
- Density: 0.375"



230990

Part No. Mfr. P/N Pos. Length 1 10 100

230973 2-140R 2 1.41" .. \$1.09 \$.85 \$.75

230981 3-140R 3 1.78" .. 1.49 1.35 1.19

230990 4-140R 4 2.16" .. 1.79 1.49 1.29

231001 5-140R 5 2.53" .. 1.89 1.59 1.39

231010 6-140R 6 2.91" .. 2.19 1.69 1.49

231028 7-140R 7 3.28" .. 1.49 1.35 1.19

231036 8-140R 8 3.66" .. 2.89 2.49 2.09

231052 10-140R 10 4.41" .. 3.49 2.89 2.39

231061 12-140R 12 5.16" .. 4.49 3.95 3.49

1775983 14-140 14 5.91" .. 4.59 3.39 3.09

### 141 Series 20A

- 5000-watts/terminal max.
- 14 AWG wire max.
- Size: 1.13" W x 0.5" H
- Screw: 6-32 x 1/4" • Density: 0.438"



2100021

Part No. Mfr. P/N Pos. Length 1 10 100

2100021 3-141R 3 1.78" .. \$1.39 \$1.19 \$.99

231378 4-141R 4 2.50" .. 1.69 1.49 1.35

231394 6-141R 6 3.38" .. 2.35 1.89 1.59

231415 8-141R 8 4.25" .. 2.95 2.59 2.29

231431 10-141R 10 5.13" .. 3.39 2.89 2.39

231440 12-141R 12 6.00" .. 3.59 3.29 2.95

### 142 Series 30A

- 7500-watts/terminal max.
- 10 AWG wire max.
- Size: 1.312" W x 0.625" H
- Screw: 8-32 x 5/16" • Density: 0.563"



Part No. Mfr. P/N Pos. Length 1 10 100

440891 8-142 8 5.47" .. \$4.95 \$4.49 \$3.95

Part No. Mfr. P/N Pos. Length 1 10 100

659382 140J-1 (140 series) ..... \$.25 \$.22 \$.19

448500 141J (141 series) ..... .35 .29 .25

## Terminal Block Jumpers

For connecting between adjacent terminals or alternate terminals.



659382

• 2-position • Brass w/ nickel plating

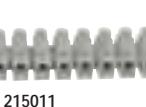
Part No. Mfr. Part No. 1 10 100

659382 140J-1 (140 series) ..... \$.25 \$.22 \$.19

448500 141J (141 series) ..... .35 .29 .25

## European Terminal Blocks

- Number of poles: 12
- Terminal insert: brass metal alloy, nickel plated
- Material: polyamide 66 (nylon 66), UL94V-2, natural
- Screws: zinc plated, yellow chromed



215011

Part No. Cross Ref. Amps AWG 1 10 100

2120161 ES0800/12DSR\* 10A 16-20 \$1.29 \$1.19 \$1.05

2120170 ES01000/12DSR\* 20A 12-20 .. 1.39 1.29 1.15

215011 PA8HDSR† 20A 12-22 .. 1.59 1.39 1.19

215029 PA10HDSR† 30A 10-22 .. 1.95 1.79 1.59

215037 PA12HDSR† 35A 10-22 .. 2.49 2.25 2.09

\* 300V † 450V

\* Web Code: CBJ

## Metric Double Row Terminal Blocks



207572

\* Web Code: SBC



### 10A @ 600V

- Screw size: M3.0 • Size: 19.5mm W x 11.9mm H

Part No. Cross Ref. Pos. Lgh (mm) 1 10 100

208857 GGE-10-4P 4 55 ..... \$95 \$75 \$.69

208865 GGE-10-6P‡ 6 74 ..... 1.29 1.15 .99

208873 GGE-10-8P‡ 8 102.5 ..... 1.59 1.45 1.29

208900 GGE-10-10P‡ 10 112 ..... 2.09 1.89 1.75

208882 GGE-10-12P‡ 12 131 ..... 2.29 2.09 1.89

### 20A @ 600V

- Screw size: M3.5 • Size: 22.0mm W x 13.2mm H

Part No. Cross Ref. Pos. Lgh (mm) 1 10 100

207538 GGE-20-4P 4 63.5 ..... \$89 \$79 \$.65

207547 GGE-20-6P‡ 6 85.3 ..... 1.59 1.39 1.25

207554 GGE-20-8P‡ 8 107.1 ..... 1.79 1.59 1.45

207563 GGE-20-10P‡ 10 128.9 ..... 2.19 1.95 1.85

207572 GGE-20-12P‡ 12 150.7 ..... 2.95 2.59 2.29

## KULKA® Double Row Terminal Block

- Base: general purpose phenolic; 150°C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated • .437" (11 mm) centers
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Open block design
- Size: 1.12" W x 0.5" H

Part No. Mfr. Part No. Pos. Length 1 10

188672 601GP8R 8 4.25" ..... \$3.95 \$3.49

## molex® BEAU Terminal Blocks



659411

• 0.375" double row

• Wire AWG range: 12-24AWG

• Terminal: brass, nickel plated

• Insulator: thermoplastic, UL94V-0

• Screws: #6-32 steel, zinc chromate plate

Part No. Mfr. Part No. Beau No. Pos. 1 10 100

659391 38770-0102R 77002 2 \$1.29 \$1.15 \$.99

659411 38770-0104R 77004 4 ... 1.95 1.79 1.59

659454 38770-0108R 77008 8 ... 2.49 2.25 1.95

659489 38770-0112R 77012 12 .. 3.95 3.49 2.95

## DIN Rail-Mounted Terminal Block & DIN Rail



248736

• Molded thermoplastic

• 12-22 AWG

• Spacing: 5.06mm (.199")

• UL rated voltage and current: 600V @ 20A

248736: 35mm W x 7.5mm D

Part No. Mfr. Part No. Type 1 10 100

237083 41296.2 SR2.5 ..... \$89 \$79 \$.69

248736 2094.0(IM) TS35 x 7.5 ..... 6.95 6.29 5.49

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

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89

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## Terminal Blocks

• For detailed specifications, please see our website at [www.Jameco.com](http://www.Jameco.com)



**NEW**  
MARKED IN PINK

\*Web Code: XBD

Part No.	Mfr.	Mfr. Part No.	Fig.	Term.	Terminal Spacing	Description	1	10	100
2094506	OST	OSTTE020161R	1	2	0.138"/3.5mm	Top screw .....	.29	.25	.19
2094522	OST	OSTTF020161R	2	2	0.138"/3.5mm	Side screw .....	.35	.29	.25
<b>2120680</b>	OST	OSTEH022160R	3	2	0.138"/3.5mm	Top screw .....	.49	.45	.39
2094514	OST	OSTTE030161R	1	3	0.138"/3.5mm	Top screw .....	.39	.35	.29
2094531	OST	OSTTF030161R	2	3	0.138"/3.5mm	Side screw .....	.49	.45	.39
<b>2120698</b>	OST	OSTEH032160R	3	3	0.138"/3.5mm	Top screw .....	.75	.69	.65
2094565	OST	OSTTJ0231530R	4	2	0.150"/3.81mm	R/A screw .....	.65	.59	.55
2094602	OST	OSTTS02315A	5	2	0.150"/3.81mm	Top screw .....	.65	.59	.55
2094629	OST	OSTTS02315B	6	2	0.150"/3.81mm	Top screw .....	.65	.59	.55
2094645	OST	OSTTQ0023250R	7	2	0.150"/3.81mm	Vertical header .....	.25	.22	.15
2094661	OST	OSTTQ0023251R	8	2	0.150"/3.81mm	R/A header .....	.25	.22	.15
2094573	OST	OSTTJ0331530R	4	3	0.150"/3.81mm	R/A screw .....	.95	.85	.75
2094611	OST	OSTTS03315A	5	3	0.150"/3.81mm	Top screw .....	.95	.85	.75
2094637	OST	OSTTS03315B	6	3	0.150"/3.81mm	Top screw .....	.95	.85	.75
2094653	OST	OSTTQ0033250R	7	3	0.150"/3.81mm	Vertical header .....	.35	.29	.25
2094670	OST	OSTTQ0033251R	8	3	0.150"/3.81mm	R/A header .....	.35	.29	.25
<b>2120621</b>	OST	OSTTB020161R	2	2	0.197"/5mm	Side screw .....	.35	.29	.25
2094485	OST	OSTTA020161R	9	2	0.197"/5mm	Top screw .....	.29	.25	.19
2094549	OST	OSTTG0201600R	10	2	0.197"/5mm	45° angle screw .....	.39	.35	.29
160785	Dinkle	EK500V-02P	11	2	0.197"/5mm	Top screw .....	.59	.55	.45
164794	OST	OSTTH020160R	3	2	0.197"/5mm	Top screw .....	.65	.59	.49
99427	Dinkle	128V2P-R	12	2	0.197"/5mm	Top screw .....	.79	.59	.49
189676	OST	OSTTC020162R	13	2	0.197"/5mm	Top screw .....	.79	.59	.49
161067	Dinkle	EK500A-02P	14	2	0.197"/5mm	45° angle screw .....	.85	.75	.55
<b>2120735</b>	OST	OSTHT020080R	15	2	0.197"/5mm	45° angle screw .....	.69	.65	.59
<b>2120639</b>	OST	OSTTB030161R	2	3	0.197"/5mm	Side screw .....	.49	.45	.39
2094493	OST	OSTTA030161R	9	3	0.197"/5mm	Top screw .....	.39	.35	.29
2094557	OST	OSTTG0301600R	10	3	0.197"/5mm	45° angle screw .....	.59	.55	.49
2081203	Dinkle	ED500V-3P	16	3	0.197"/5mm	Top screw .....	.69	.59	.45
189668	OST	OSTTC030162R	13	3	0.197"/5mm	Top screw .....	.89	.79	.69
99398	Dinkle	DT128V3P	12	3	0.197"/5mm	Top screw .....	.95	.89	.79
160793	Dinkle	EK500V-03P	11	3	0.197"/5mm	Top screw .....	.95	.89	.79
164806	OST	OSTTH030160	3	3	0.197"/5mm	Top screw .....	.95	.89	.79
161059	Dinkle	EK500A-03P	14	3	0.197"/5mm	45° angle screw .....	1.15	.95	.85
<b>2120743</b>	OST	OSTHT030080R	15	3	0.197"/5mm	45° angle screw .....	.95	.85	.75
2094477	OST	OSTOP240200R	23	24	0.197"/5mm	1.3 x 1.0mm .....	1.19	1.09	.95
164815	OST	OSTOP240000R	23	24	0.197"/5mm	1.3 x 1.3mm .....	1.59	1.39	1.19
<b>2120567</b>	OST	OSTYC022150R	11	2	0.200"/5.08mm	Top screw .....	.45	.39	.35
2094688	OST	OSTQQ025450R	17	2	0.200"/5.08mm	Vertical header .....	.25	.22	.15
2094709	OST	OSTQQ025451R	18	2	0.200"/5.08mm	Vertical header .....	.25	.22	.15
<b>2120647</b>	OST	OSTTC022162R	1	2	0.200"/5.08mm	Top screw .....	.29	.25	.19
2094581	OST	OSTTJ025153R	19	2	0.200"/5.08mm	Top screw .....	.65	.59	.55
152347	OST	OSTTA024163R	20	2	0.200"/5.08mm	Top screw .....	.65	.55	.45
2094696	OST	OSTQQ035450R	17	3	0.200"/5.08mm	Vertical header .....	.29	.25	.19
2094717	OST	OSTQQ035451R	18	3	0.200"/5.08mm	Vertical header .....	.29	.25	.19
<b>2120575</b>	OST	OSTYC032150R	11	3	0.200"/5.08mm	Top screw .....	.55	.49	.45
<b>2120655</b>	OST	OSTTC032162R	1	3	0.200"/5.08mm	Top screw .....	.39	.35	.29
152355	OST	OSTTA034163R	20	3	0.200"/5.08mm	Top screw .....	.49	.45	.39
2094590	OST	OSTTJ035153R	19	3	0.200"/5.08mm	Top screw .....	.89	.79	.69
<b>249084</b>	OST	EDZA750/30	21	3	0.200"/5.08mm	Top screw .....	2.19	1.95	1.75
276672	Buchanan	6PCV-05-006	22	6	0.375"/9.53mm	Top screw .....	1.49	1.29	1.15

• Blue Part No. = Limited Quantity Available



Product Search:

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## 3M Electrical Connector Kit

• 79 pieces

Part No. 1 10  
651954 \$9.95 \$8.95



170 Terminals and Connectors!

- Clear, hinged plastic box
- Use crimping tool

P/N 72996, pg 91

Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male spade	22-16	1/4"	10	Ring term.	16-14	#10
10	Male spade	16-14	1/4"	5	Ring term.	12-10	#10
10	Fem. spade	22-16	1/4"	5	Ring term.	12-10	#14
10	Fem. spade	16-14	1/4"	10	Spade term.	16-22	#6
10	Ring term.	22-16	#6	10	Spade term.	16-22	#8
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10
10	Ring term.	16-14	#10	10	Butt conn.	16-22	—
15	Ring term.	16-14	#6	10	Butt conn.	16-14	—
10	Ring term.	16-14	#8	5	Butt conn.	12-10	—

Part No. Product No. 1 10 25  
10990 G1C175-R \$14.95 \$13.49 \$11.95

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

**AMP** **molex®**

## Terminals, Splices and Quick Connect/Disconnect

\* Web Code: TSQ



### Ring Tongue Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	* Order in multiples of 10		
								1	10	100
302594	AMP	323912R	1	Nylon	#2	26-22	Yellow ..*	\$ .19	\$ .15	
302658	AMP	31880R	1	Nylon	#4	22-16	Red ..25	.22	.15	
302666	AMP	36152R	2	Plastic	#6	22-16	Red ..25	.22	.15	
103684	Various	2048R	2	Plastic	#6	22-16	Red ..*	.12	.09	
302674	AMP	31890R	2	Plastic	#8	22-16	Red ..*	.19	.15	
844220	AMP	34104R	3	Uninsul.	#4	22-16	— ..*	.15	.12	
844289	AMP	34107R	3	Uninsul.	#6	22-16	— ..*	.15	.12	
844377	AMP	34111R	3	Uninsul.	#8	22-16	— ..*	.15	.12	
844406	AMP	34112R	3	Uninsul.	#10	22-16	— ..*	.15	.12	
302720	AMP	320619R	1	Nylon	#6	16-14	Blue ..*	.15	.12	
302746	AMP	36160R	1	Nylon	#10	16-14	Blue ..*	.15	.12	
302754	AMP	321045R	1	Nylon	#1/4	16-14	Blue ..25	.22	.17	
302797	AMP	35108R	1	Nylon	#8	12-10	Yellow ..25	.22	.17	
302800	AMP	35109R	1	Nylon	#10	12-10	Yellow ..25	.22	.17	
847560	AMP	36158R	1	Nylon	#6	16-14	Blue ..25	.22	.17	
302738	AMP	320565R	2	Nylon	#8	16-14	Blue ..25	.22	.17	

### Spade Tongue Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	* Order in multiples of 10		
								1	10	100
302851	AMP	328394R	4	Nylon	#2	22-16	Red ..25	\$ .22	\$ .17	
302869	AMP	327717R	4	Nylon	#4	22-16	Red ..25	.22	.17	
302877	AMP	34541R	4	Nylon	#6	22-16	Red ..25	.22	.17	
103588	Various	SVS1-3.7R	4	Vinyl	#6	22-16	Red ..*	.12	.09	
302885	AMP	32053R	4	Nylon	#8	22-16	Red ..35	.29	.25	
842929	AMP	323127R	5	Uninsul.	#6	22-16	— ..25	.22	.17	
502879	Molex	19144-0001	6	PVC	#5-6	18-22	Red ..25	.22	.17	
302906	AMP	35559R	4	Nylon	#6	16-14	Blue ..25	.22	.17	
302914	AMP	32059R	4	Nylon	#8	16-14	Blue ..25	.22	.17	
103596	Various	SVM-2R	4	Vinyl	#8	16-14	Blue ..*	.15	.12	
302949	AMP	326859R	4	Nylon	#6	12-10	Yellow ..39	.36	.33	
302957	AMP	32588R	4	Nylon	#8	12-10	Yellow ..39	.35	.29	
511265	AMP	19144-0043	4	PVC	#10	12-10	Yellow ..25	.22	.17	
502801	AMP	19141-0085	4	Uninsul.	#10	12-10	— ..*	.12	.09	

### Flanged Spade Tongue Terminals

Part No.	Mfr.	Mfr. Part No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
302973	AMP	324608R	7	PVC	#2	22-16	Red ..29	\$ .25	\$ .19	
303010	AMP	320862R	7	Nylon	#8	16-14	Blue ..25	.22	.17	

### Short Spring Spade Tongue Terminals

Part No.	Mfr.	Mfr. Part No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
303087	AMP	52930R	8	Nylon	#8	22-16	Red ..*	\$ .17	\$ .15	
303132	AMP	52941R	8	Nylon	#6	12-10	Yellow ..*	.17	.15	
303141	AMP	52942R	8	Nylon	#8	12-10	Yellow ..29	.25	.22	
303159	AMP	52943R	8	Nylon	#10	12-10	Yellow ..29	.25	.19	

### Spade Solderless Terminal Noninsulated

Part No.	Mfr.	Mfr. Part No.	Fig.	AWG	Material	Width (in.)	Order in multiples of 10	10	100	1000
502705	Molex	19141-0022	20	18-22	Copper	0.326		\$ .15	\$ .12	\$ .09

### H Solderless Terminal Crimping Tool

- Crimps solderless terminals:  
18-22 AWG red, 14-16 AWG blue  
and 10-12 AWG yellow



Part No.	Mfr. Part No.	Size	1	10	25
72996	HT303R	9.0" L x 2.0" W	\$22.49	\$18.95	\$14.49

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



3 LEVELS OF SAVINGS

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HOUSE BRANDS

FACTORY OVERRUN

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### Butt & Knife Disconnect Splices

Part No.	Mfr.	Mfr. Part No.	Fig.	Insul.	Type	AWG	Color	* Order in multiples of 10		
								1	10	100
303167	AMP	323994R	9	Nylon	Butt	24-20	Natural ..	\$ .49	\$ .45	\$ .39
303175	AMP	320559R	9	Nylon	Butt	22-16	Red ..55	.49	.45	
494469	Molex	19215-0009	10	Uninsul.	Butt	22-18	— ..*	.15	.12	
491305	Molex	19164-0013	11	NIAC	Butt	22-18	Red ..45	.39	.35	
503062	Molex	19154-0004	9	PVC	Butt	18-22	Red ..*	.15	.12	
303183	AMP	320562R	9	Nylon	Butt	16-14	Blue ..55	.49	.45	
511530	Molex	19154-0030R	9	PVC	Butt	12-10	Natural ..*	.17	.15	
303221	AMP	35762R	12	Nylon	Knife	12-10	Yellow ..99	.89	.79	

### Quick Connect/Disconnect Female Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Size (ins.)	AWG	Color	* Order in multiples of 10		
								1	10	100
303280	AMP	640903-1R	13	Nylon	.250 x .032	22-18	Red ..25	\$ .22	\$ .15	.15
489627	Molex	19003-0001*	14	Nylon	.250 x .032	22-18	Red ..*	.15	.12	
489475	Molex	19002-0001	15	Nylon	.250 x .032	22-18	Red ..35	.29	.25	
489758	Molex	19005-0001	14	Nylon	.250 x .032	22-18	Red ..29	.22	.15	
303255	AMP	640917-1R	13	Nylon	.187 x .020	22-18	Red ..25	.22	.15	
489643	Molex	19003-0017*	14	Nylon	.187 x .032	22-18	Red ..25	.22	.15	
461042	Molex	19019-0009R	13	Nylon	.187 x .032	22-18	Red ..29	.25	.19	
489635	Molex	19003-0011*	14	Nylon	.187 x .020	22-18	Red ..25	.22	.15	
524197	AMP	2-520182-2R	16	Nylon	.110 x .020	22-18	Red ..25	.22	.15	
303247	AMP	640923-1R	13	Nylon	.110 x .032	22-18	Red ..25	.22	.15	
109112	Various	GFF1250R	17	Vinyl	.250 x .032	22-16	Red ..25	.22	.15	
103668	Various	FDV1-250R	13	Vinyl	.250 x .032	22-16	Red ..*	.15	.12	
106922	Various	FDV1-187R	13	Vinyl	.187 x .032	22-16	Red ..*	.12	.09	
303327	AMP	640905-1R	13	Nylon	.250 x .032	16-14	Blue ..25	.22	.15	
489766	Molex	19005-0005	14	Nylon	.250 x .032	16-14	Blue ..25	.22	.16	
489678	Molex	19003-0040*	14	Nylon	.250 x .032	16-14	Blue ..*	.15	.12	
489871	Molex	19007-0021*	18	Nylon	.250 x .032	16-14	Blue ..35	.29	.25	
303301	AMP	640919-1R	13	Nylon	.187 x .020	16-14	Blue ..*	.17	.15	
489694	Molex	19003-0050*	14	Nylon	.187 x .020	16-14	Blue ..29	.22	.15	
1963811	Molex	19003-0055R	17	Nylon	.187 x .020	16-14	Blue ..29	.25	.19	
303298	AMP	640929-1R	13	Nylon	.110 x .020	16-14	Blue ..25	.22	.19	
303343	AMP	640907-1R	13	Nylon	.250 x .032	12-10	Yellow ..35	.29	.25	
489774	Molex	19005-0010	14	Nylon	.250 x .032	10-12	Yellow ..35	.29	.25	

\*Translucent

### Quick Connect/Disconnect Male Terminals Insulated

Part No.	Mfr.	Mfr. Part No.	
----------	------	---------------	--

# Binary, Basic & Snap Switches

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ValuePro

- Contact resistance: 100mΩ max.
- Contacts: gold plated BE-CU alloy
- Front snap-tab mounting w/ end plates
- Continuous load: 1 amp max.
- 28VDC @ 0.15A

## Binary Coded Decimal (BCD) Switches



Part No.	Manufacturer	Cross Ref. No.	Description	Dimensions (L" x W" x D")	Character Height	Pricing		
				(L" x W" x D")	1	10	100	
26789	ValuePro	GPF311221R	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	\$4.49	\$3.95	\$3.59
26761	ValuePro	PF31E10	End plates for 26789 (2)	1.2 x 0.2 x 1.1	—	.95	.85	.75
26818	ValuePro	GTF311211R	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.49	3.95	3.59
26771	ValuePro	TF31E10R	End plate for 26818 (2)	1.2 x 0.2 x 1.3	—	.95	.85	.75

JAMECO ValuePro

- Operating temperature: -10°C to +65°C
- 28VDC @ 10A
- Break before make
- Switches snap together
- Positive logic ("0" all open output)
- Size L = 0.59", W = 0.30", S = 1"
- Character height: 0.12"

## Mini Pushbutton BCD Switch



Part No.	Cross Ref.	Description	1	10	100
136558	MX061R	10-position ...	\$2.95	\$2.59	\$2.29

★ Web Code: UEM



OMRON Honeywell

## Miniature Basic Switches



Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

- 3 terminals: common; normally open; normally closed
- Size: 1.10" L x 0.40" W x 0.63" H



Mountain Switch

OMRON

## Subminiature Basic Switches

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35", B = 0.29" • Dimensions: 0.78" L x 0.25" W x 0.40" H

★ Web Code: MBE

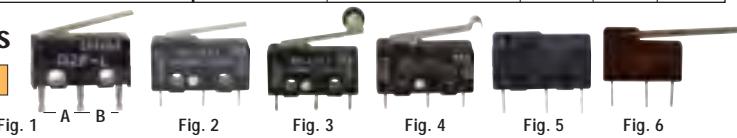


Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Part No.	Manufacturer	Mfr. Part No.	Fig.	Actuator Type	Contact Form	Contact Rating	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
188867	Omron	D2F-LR	1	Hinge lever (0.5" L)	SPDT	3A @ 125VAC, 2A @ 30VDC	1M/30k	Solder	\$1.19	\$1.05	\$ .95
187709	Omron	SS-5GLR	2	Hinge lever (0.6" L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.59	1.35	1.15
187733	Omron	SS-5GL2R	3	Hinge roller (0.6" L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.49	1.29	1.15
159599	Highly Electric	SS0505A	3	Hinge roller (0.7" L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.39	1.25	1.09
187717	Omron	SS-5GL13R	4	Simulated roller lever	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.59	1.35	1.15
2097678	Mountain Switch	61-05-205RR-Q-EVR	3	Roller lever (0.57" L)	SPDT-NC	5A @ 125VAC/250VAC	10M/100k	.110" quick connect	1.25	1.09	.99
2097651	Mountain Switch	61-05-033ST-Q-EVR	2	Straight lever (0.653" L)	SPDT-NC	5A @ 125VAC/250VAC	10M/100k	.110" quick connect	1.09	.95	.85
2097627	Mountain Switch	61-05-104XX-Q-EVR	5	Button (no lever)	SPDT-NC	5A @ 125VAC/250VAC	10M/100k	.110" quick connect	.99	.89	.79
2100048	Honeywell	311SM8094-H4	6	Straight lever (1.31"*)	SPDT	5A @ 250VAC, 5A @ 30VDC	1M/30k	.110" quick connect	2.25	1.95	1.75
2100030	Honeywell	311SM8095-H5	6	Straight lever (1.31"*)	SPDT	5A @ 250VAC, 5A @ 30VDC	1M/30k	.110" quick connect	1.95	1.75	1.59
2097731	Mountain Switch	61-10-060RR-Q-EVR	3	Roller lever (0.57" L)	SPDT-NC	10.1A @ 125VAC/250VAC	10M/100k	.110" quick connect	1.49	1.35	1.19
2097715	Mountain Switch	61-10-055ST-EVR	2	Straight lever (0.653" L)	SPDT-NC	10.1A @ 125VAC/250VAC	10M/100k	Solder	1.39	1.25	1.09
2097694	Mountain Switch	61-10-249XQ-Q-EVR	5	Button (no lever)	SPDT-NC	10.1A @ 125VAC/250VAC	10M/100k	.110" quick connect	1.39	1.25	1.09

\* Straight lever with flag actuator

Mountain Switch

## Super Subminiature Snap Switches



Fig. 1

Fig. 2

Fig. 3

Part No.	Manufacturer	Mfr. Part No.	Fig.	Actuator Type	Contact Form	Contact Rating	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
2097598	Mountain Switch	13-03-070ST-EVR	1	Straight lever (0.433" L)	SPDT-NC	3A @ 125VAC, 0.2A @ 60VDC	1M/15k	PCB	\$ .95	\$ .85	\$ .75
2097580	Mountain Switch	13-03-050ST-EVR	2	Straight lever (0.551" L)	SPDT-NC	3A @ 125VAC; 0.2A @ 60VDC	1M/15k	PCB	.95	.85	.75
2097601	Mountain Switch	13-03-045SR-EVR	3	Simulated roller (0.614" L)	SPDT-NC	3A @ 125VAC; 0.2A @ 60VDC	1M/15k	PCB	.95	.85	.75

## Magnetic Reed Switches

★ Web Code: UBB

• NO (normally open)	• Contact form: SPST
171872: 500mA @ 100VDC	1951342
2099340: 500mA @ 180VDC/130VAC	2099331
2099331: 500mA @ 200VDC	1A @ 220VDC

Part No.	Product No.	Size (L" x D")	Type	1	10	100
171872	MKA14103R	0.53 x 0.1	Axial .....	\$ .85	\$ .65	\$ .49
2099340	R1-27AAAAR	1.81 x 0.07	Axial .....	.99	.89	.79
2099331	CM15-2025R	1.36 x 0.15	SMT .....	.99	.89	.79
1951342	MKC-27103	2.24 x 0.1	Axial .....	1.49	1.35	1.19

## Temperature Switch

- SPST-NC (Normally-Closed)
- Operational life: 100,000 cycles
- Temp: 75°C (167°F) • 1.64" L leads
- Contact resist.: 50MΩ or less
- PCB mount • UL/CSA approved

Part No.	Product No.	Contact Current	Contact Voltage	1	10	100
159636	7AM-202	5A	120V .....	\$.29	\$.25	\$.19

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RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.



\* Web Code: UBU

## Pushbutton Switches



Part No.	Manufacturer	Product No.	Fig.	Pins	Mounting Hole Dia.	Contact Form ( ) Momentary	Contact Rating	Dimensions (L" x W" x D")	Lead Spacing		Terminal Type	Button Color	Pricing		
									A"	B"			1	10	100
315521	ValuePro	R13-23B-Y	1	1	.480"	SPST off-on	3A @ 125VAC	1.38 (D) x 1.53 (T)	.18	—	Solder	Yellow	<b>\$.95</b>	<b>\$.85</b>	<b>\$.69</b>
164523	Mountain Switch	1DS466R	1	2	.406"	SPST off-(on)	3A @ 125VAC	.50 x .50 x .60	.16	—	Solder	Red	<b>2.95</b>	<b>2.59</b>	<b>2.09</b>
315484	ValuePro	R13-23B-R	1	2	.480"	SPST off-on	3A @ 125VAC	1.13 (D) x 1.53 (T)	.20	—	Solder	Red	<b>.95</b>	<b>.85</b>	<b>.75</b>
315492	ValuePro	R13-23B-B	1	2	.480"	SPST off-on	3A @ 125VAC	1.13 (D) x 1.53 (T)	.20	—	Solder	Black	<b>.95</b>	<b>.85</b>	<b>.75</b>
315432	ValuePro	R13-23A-R	1	2	.480"	SPST off-(on)	3A @ 125VAC	1.13 (D) x 1.53 (T)	.20	—	Solder	Red	<b>.95</b>	<b>.85</b>	<b>.75</b>
315651	ValuePro	R13-502A-05-BB	1	2	.500"	SPST off-(on)	3A @ 125VAC	.82 (D) x 1.02 (T)	.23	—	Solder	Black	<b>1.75</b>	<b>1.49</b>	<b>1.25</b>
315442	ValuePro	R13-23A-B	1	2*	.480"	SPST off-(on)	3A @ 125VAC	1.13 (D) x 1.53 (T)	.20	—	Solder	Black	<b>.95</b>	<b>.85</b>	<b>.75</b>
315678	ValuePro	R13-502A-05-BG	2	2	.500"	SPST off-(on)	3A @ 125VAC	.82 (D) x 1.02 (T)	.20	—	Solder	Green	<b>1.75</b>	<b>1.49</b>	<b>1.25</b>
315660	ValuePro	R13-502A-05-BR	3	2	.500"	SPST off-(on)	3A @ 125VAC	.82 (D) x 1.02 (T)	.22	—	3Solder	Red	<b>1.75</b>	<b>1.49</b>	<b>1.25</b>
315791	ValuePro	R13-508A-05-BB	4	2	.630"	SPST off-(on)	3A @ 125VAC	.94 (D) x 1.16 (T)	.24	—	Solder	Black	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>
315820	ValuePro	R13-508A-05-BRR	4	4	.630"	SPST off-(on)	3A @ 125VAC	.93 (D) x 1.14 (T)	.21	.25	Solder w/ LED	Red	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>
315897	ValuePro	R13-511A-05-BB	5	2	.500"	SPST off-(on)	3A @ 125VAC	.93 (D) x 1.14 (T)	.23	—	Solder	Black	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>
315900	ValuePro	R13-511A-05-BR	5	2	.500"	SPST off-(on)	3A @ 125VAC	.93 (D) x 1.14 (T)	.24	—	Solder	Red	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>
315599	ValuePro	R13-40A-R	6	2	.480"	SPST off-(on)	3A @ 125VAC	.98 (D) x 1.56 (T)	.20	—	Solder	Red	<b>1.19</b>	<b>1.05</b>	<b>.95</b>
315580	ValuePro	R13-40B-B	6	2	.480"	SPST off-(on)	3A @ 125VAC	.87 (D) x 1.4 (T)	.20	—	Solder	Black	<b>1.39</b>	<b>1.25</b>	<b>1.15</b>
26623	ValuePro	MS102	7	2	.250"	SPST off-(on)	3A @ 125VAC	.65 (D) x 1.10 (T)	—	.14	Solder lugs	Red	<b>.59</b>	<b>.49</b>	<b>.45</b>
164566	Mountain Switch	MS402R	8	2	.172"	SPST off-(on)	.5A @ 125VAC	.60 (D) x .80 (T)	.08	—	Solder	Red	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>
315643	ValuePro	R13-81-R	8	2	.203"	SPST off-(on)	.5A @ 125VAC	.44 (D) x .78 (T)	.08	—	PC terminal	Red	<b>.95</b>	<b>.85</b>	<b>.75</b>
71643	ValuePro	SWB210	9	2	.219"	SPST off-(on)	1A @ 120VAC	.36 x .20 x .33	.20	.20	PC right angle	Black	<b>2.79</b>	<b>2.45</b>	<b>2.29</b>
174414	ValuePro	R13-510A	10	2	.500"	SPST off-(on)	3A @ 125VAC	.82 (D) x 1.0 (T)	—	.167	Solder lugs	Red	<b>.95</b>	<b>.85</b>	<b>.75</b>
22218	Judco	J1882	11	2*	.375"	SPST off-(on)	2A @ 14VDC	.65 x .52 x .40	.25	—	5" Pigtail	Red	<b>1.09</b>	<b>.95</b>	<b>.85</b>
171758	Apem	IPR3SAD2	12	2	.500"	SPST off-(on)	.2A @ 250VAC	.76 (D) x 1.0 (T)	.19	—	Solder	Black	<b>14.95</b>	<b>13.49</b>	<b>11.95</b>
171766	Apem	IPC3SAD6	13	2	.500"	SPST off-(on)	.2A @ 250VAC	.82 x .69 x .46	.19	—	Solder	Red	<b>14.95</b>	<b>13.49</b>	<b>11.95</b>
171774	Apem	AV191003C900	14	2	.750"	SPST off-(on)	.2A @ 48VDC	.87 (D) x 1.2 (T)	.37	—	Screw	Silver	<b>13.95</b>	<b>12.95</b>	<b>11.49</b>
164494	Mountain Switch	DS450R	15	2	.406"	SPST off-on	3A @ 125VAC	.59 (D) x 1.2 (T)	.175	—	Solder	Red	<b>3.95</b>	<b>3.49</b>	<b>3.19</b>
164486	Mountain Switch	DS463R	15	2	.406"	SPST off-(on)	3A @ 125VAC	.59 (D) x 1.2 (T)	.175	—	Solder	Red	<b>2.95</b>	<b>2.59</b>	<b>2.09</b>
164582	Mountain Switch	DS016B	16	2	.469"	SPST off-(on)	1A @ 125VAC	.46 (D) x .88 (T)	.22	—	Solder	Black	<b>2.19</b>	<b>2.09</b>	<b>1.99</b>
164639	Mountain Switch	MS3120R	17	2	.295"	SPST off-(on)	.5A @ 125VAC	.31 (D) x 1.1 (T)	.175	—	Solder	Red	<b>1.75</b>	<b>1.49</b>	<b>1.25</b>
106112	Mountain Switch	DS412R	18	2	.734"	SPST off-(on)	3A @ 110VAC	.66 (D) x .63 (T)	.275	—	Solder lugs	Red	<b>1.75</b>	<b>1.49</b>	<b>1.25</b>
164671	Mountain Switch	NS801M0	19	2	.492"	SPST off-(on)	1A @ 125VAC	1.0 (D) x 1.1 (T)	.213	—	Solder terminal	Black	<b>3.95</b>	<b>3.49</b>	<b>3.19</b>
26649	ValuePro	MS103	7	2	.250"	SPST on-(off)	3A @ 125VAC	.65 (D) x 1.10 (T)	—	.17	Solder lugs	Black	<b>.59</b>	<b>.49</b>	<b>.45</b>
22200	Judco	J1881	11	2*	.375"	SPST on-(off), Alt <sup>1</sup>	2A @ 14VDC	.65 x .52 x .40	.25	—	5" Pigtail	White	<b>1.29</b>	<b>1.15</b>	<b>.105</b>
172700	Arctic	MPS1SPSTBLWH	20	2	—	SPST (on/off)	.05A @ 24VDC	.38 x .20 x .10	.10	—	Solder terminal	White	<b>.35</b>	<b>.29</b>	<b>.25</b>
315380	ValuePro	PA102A1-B	21	2	.250"	SPST on-(off)	6A @ 125VAC	1.2 (D) x 1.7 (T)	.185	—	Solder	Black	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>
315388	ValuePro	PA101A1-R/BL	21	2	.250"	SPST on-off	6A @ 125VAC	1.2 (D) x 1.7 (T)	.185	—	Solder	Red	<b>1.75</b>	<b>1.59</b>	<b>1.39</b>
355451	ValuePro	J1881	22	2*	.375"	SPST on-(off), Alt <sup>1</sup>	2A @ 14VAC	.65 x .52 x .40	.25	—	5" Pigtail	White	<b>.75</b>	<b>.69</b>	<b>.65</b>
447072	Apem	TP32Y0030050\$	21	3	.250"	SPST on-on	.4A @ 20VAC	0.7 (D) x 0.8 (T)	.11	—	Solder	Black	<b>.59</b>	<b>.55</b>	<b>.49</b>
200774	C&K Switch	TPI2SH8AQE	23	3	.219"	SPDT off-(on)	1A @ 120VAC	.32 x .20 x .33	.20	.10	PC right angle	Black	<b>2.95</b>	<b>2.59</b>	<b>2.09</b>
72645	AlcoSwitch	TPC11FGR2	9	3	.203"	SPDT off-(on)	1A @ 125VAC	.32 x .26 x .37	.20	.20	PC right angle	Red	<b>1.49</b>	<b>1.29</b>	<b>1.09</b>
1839705	Honeywell <sup>†</sup>	AML22CBC2AA	24	5	.750"	SPDT (on)-off	3A @ 125VAC	.80 x .80 x 1.8	.228	.177	Solder	White	<b>24.95</b>	<b>21.95</b>	<b>19.95</b>
202999	Various	BB16	23	3	.250"	SPDT on-on	.1A @ 28VAC	.39 x .35 x .35	.18	.10	Solder right angle	White	<b>.79</b>	<b>.69</b>	<b>.59</b>
596799	C&K Switch	U811SHZGE	25	3	.250"	SPDT on-(on)	1A @ 120VAC	.50 x .27 x .41	.185	—	Solder	White	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>
121305	ValuePro	GPB006-WH	25	3	.250"	SPDT on-(on)	1A @ 120VAC	.52 x .27 x .38	—	.185	Solder lugs	White	<b>3.49</b>	<b>3.15</b>	<b>2.79</b>
28063	ValuePro	PB126	25	3	.250"	SPDT on-(on)	.5A @ 120VAC	.52 x .28 x .38	—	.185	Solder lugs	Red	<b>3.49</b>	<b>3.15</b>	<b>2.79</b>
154878	Eaton Corp.	PS11-123	26	3	.250"	SPDT on-(on)	.5A @ 125VAC	.50 x .27 x .37	—	.14	Solder right angle	Red	<b>1.49</b>	<b>1.29</b>	<b>1.09</b>

\* Lead wires

<sup>1</sup> Alt = alternate action

\$ Subminiature

† With red neon lamp (5V)

†† Cap is not included

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Cord, Slide & Toggle Switches

**Switchcraft®**

**Cord-Switch®**

★ Web Code: CSH



- Maximum cable diameter: .375"
- Plastic insulation
- Copper alloy plated housing and switch bushing

Part No.	Mfr. Part No.	Contact Form	0 momentary	Button Color	1	10	50
297502	ED903A	SPDT off-(on)		Red	\$12.95	\$11.49	\$10.49

## Switch Grab Bags

- Assorted – toggle, pushbutton, rocker and slide switches

Part No.	Product No.	No. of Pcs.	Wt. (lbs.)	1	10	18235
18235	GB165	50	0.4	\$8.95	\$7.95	
135378	GB165LB	150	1.0	\$19.95	\$17.95	



**Inline Cord Switch**



- Contact form: SPST on-off
- Terminal: solder
- Contact rating: 6A @ 20VDC

- Black plastic body

Part No.	Mfr. Part No.	1	10	100
621270	35-1851-BU		\$3.49	\$3.19

**The Best Warranty in the Industry**

All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.

## Slide Switches

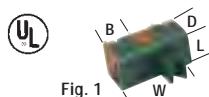


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

★ Web Code: LAP

- Two mounting flanges
- Top actuation
- 6/6 nylon plastic housing
- Nylon actuator
- Phenolic insulated

Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form	Contact Rating	Dimensions (L" x W" x D")	Lead Spacing		Housing Material	Lead Length	Actuator Height	Pricing		
								A"	B"				1	10	100
549010	AlcoSwitch	1-1437575-4	1	3	SPDT on-on	0.1A @ 30VAC	.35" L x .13" W x .13" D	.10	.10	Plastic	.12"	.08"	\$2.75	\$2.39	\$2.09
202770	Various	74650-009	2	6	SPDT on-on	0.1A @ 30VDC	.35" L x .70" W x .30" D	.17	.20	Plastic	.16"	.32"	.29	.25	.19
588220	C&K Switches	OS102011MA1QN1	3	3	SPDT on-on	0.2A @ 30VDC	.34" L x .17" W x .15" D	—	.08	Metal	.11"	.16"	.39	.35	.29
621325	GC Electronics	35-202-BU	4	3	SPDT on-on	0.3A @ 30VAC	.44" L x .22" W x .18" D	.14	—	Metal	.14"	.16"	1.79	1.59	1.39
109171	ValuePro	G4050X-R	1	3	SPDT on-on	0.5A @ 50VDC	.22" L x .45" W x .23" D	—	.12	Plastic	.17"	.15"	.35	.29	.25
204142	C&K Switches	4102021MLOY	5	3	SPDT on-on	2.0A @ 28VDC	.77" L x .40" W x .37" D	—	.19	Plastic	.19"	.17"	.29	.25	.19
161817	ValuePro	MS-306-R	4	6	DPDT on-on	0.3A @ 6VDC	.35" L x .14" W x .14" D	.10	.10	Plastic	.14"	.08"	.59	.49	.45
2076210	CWI	GF126-1093	4	6	DPDT on-on	0.5A @ 125VDC	1.0" L x .41" W x .30" D	.19	.29	Metal	.25"	.20"	.69	.59	.49

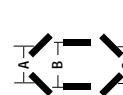
● Blue Part No. = Limited Quantity Available

JAMECO ValuePro

- Medium duty
- Mounting hole dia.: 1/2"



3-pin



2-pin or



4-pin

## Standard Toggle Switches

★ Web Code: NAJ

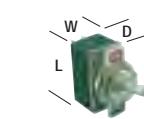


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spacing			Terminal Type	Lever Type	Pricing		
								A"	B"	C"			1	10	100
76241	ValuePro	SWM128	1	2	SPST on-off	4 @ 125 & 2 @ 250	1.00" x .56" x .52	.23	—	—	Solder lugs	Round	\$1.79	\$1.59	\$1.35
76232	ValuePro	SWM125	2	2	SPST on-off	6 @ 125 & 3 @ 250	1.00" x .53" x .51	.23	—	—	6" lead wire	Round	2.19	1.89	1.69
317825	ValuePro	R13-25A2-01	3	2	SPST on-off	10 @ 125 & 6 @ 250	1.14" x .59" x .62	.38	.38	—	.250" quick connect	Metal	2.49	2.19	1.89
318027	ValuePro	R13-28A-06	3	2	SPST on-off	15 @ 125 & 10 @ 250	1.33" x .75" x .75	.45	.61	.45	M3 screw	Round	1.79	1.59	1.45
318002	ValuePro	R13-28A-01A	3	2	SPST on-off	15 @ 125 & 10 @ 250	1.33" x .75" x .75	.45	.61	.45	.250" quick connect	Round	2.49	2.19	1.89
621499	GC Electronics	35-3005	4	2	SPST on-off	20 @ 125	.92" x .64" x .40	—	.47	—	.250" quick connect	Bat brass	2.95	2.59	2.29
158060	ValuePro	JKN32	1	4	SPDT on-off	4 @ 125 & 2 @ 250	1.00" x .56" x .52	.23	—	.23	Solder lugs	Round	1.19	1.05	.89
318086	ValuePro	R13-28C-01	3	3	SPDT on-on	15 @ 125 & 10 @ 250	1.33" x .75" x .75	.45	.61	.45	.250" quick connect	Round	1.69	1.49	1.25
318094	ValuePro	R13-28C-05	3	3	SPDT on-on	15 @ 125 & 10 @ 250	1.33" x .75" x .75	.45	.61	.45	Solder	Round	1.69	1.49	1.25
318107	ValuePro	R13-28C-06	3	3	SPDT on-on	15 @ 125 & 10 @ 250	1.33" x .75" x .75	.45	.61	.45	M3 screw	Round	1.69	1.49	1.25
317892	ValuePro	R13-25C-05	5	3	SPDT on-on	10 @ 125 & 6 @ 250	1.14" x .59" x .62	.38	.38	—	Solder	Plastic	1.69	1.49	1.25
317913	ValuePro	R13-25C-05	5	3	SPDT on-on	10 @ 125 & 6 @ 250	1.14" x .59" x .62	.38	.38	—	Solder	Metal	1.69	1.49	1.25
317884	ValuePro	R13-25C-01	5	3	SPDT on-on	10 @ 125 & 6 @ 250	1.14" x .59" x .62	.38	.38	—	.250" quick connect	Plastic	1.69	1.49	1.25
317905	ValuePro	R13-25C-02	5	3	SPDT on-on	10 @ 125 & 6 @ 250	1.14" x .59" x .62	.38	.38	—	.250" quick connect	Metal	1.69	1.49	1.25
317931	ValuePro	R13-25D1-05A	2	3	SPDT on-off-on	10 @ 125 & 6 @ 250	1.14" x .60" x .62	.34	.34	—	Solder lugs	Paddle	1.89	1.69	1.49
318123	ValuePro	R13-28D-01	3	3	SPDT on-off-on	15 @ 125 & 10 @ 250	1.33" x .75" x .75	.45	.61	.45	.250" quick connect	Round	2.19	1.89	1.69
318141	ValuePro	R13-28D-06A	3	3	SPDT on-off-on	15 @ 125 & 10 @ 250	1.33" x .75" x .75	.45	.61	.45	M3 screw	Round	3.79	3.19	2.95
158078	ValuePro	JKN3CC	1	6	DPDT on-on	10 @ 125 & 6 @ 250	1.19" x .76" x .73	.44	.59	.44	Screw lugs	Round	1.29	1.15	1.05
76260	ValuePro	SWM126	1	6	DPDT on-on	5 @ 125 & 3 @ 250	1.10" x .77" x .60	.30	.60	.30	Solder lugs	Round	1.75	1.59	1.45
318060	ValuePro	R13-28B-06	3	6	DPDT on-on	15 @ 125 & 10 @ 250	1.33" x .75" x .75	.45	.61	.45	M3 screw	Round	1.95	1.75	1.59
318043	ValuePro	R13-28B-01	3	6	DPDT on-on	15 @ 125 & 10 @ 250	1.33" x .75" x .75	.45	.61	.45	.250" quick connect	Round	3.95	3.39	2.49
318052	ValuePro	R13-28B-05A	3	6	DPDT on-on	15 @ 125 & 10 @ 250	1.33" x .75" x .75	.45	.61	.45	Solder	Round	3.95	3.39	2.49
317850	ValuePro	R13-25B1-05	5	6	DPDT on-on	10 @ 125 & 6 @ 250	1.14" x .79" x .62	.40	.40	.40	Solder lugs	Paddle	1.95	1.75	1.59
567761	Various	SWM127	3	6	DPDT on-off-on	10 @ 125 & 5 @ 250	1.18" x .77" x .75	.40	.60	.40	M3 screw	Round	3.95	3.39	2.49
317972	ValuePro	R13-25E1-05	5	6	DPDT on-off-on	10 @ 125 & 6 @ 250	1.14" x .59" x .62	.38	.38	—	Solder	Plastic	1.95	1.75	1.59

● RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.



JAMECO ValuePro

JAMECO ValuePro

- Mounting hole diameter: 1/4"
- 
- 

Includes: Mounting hardware



Fig. 1



Fig. 2

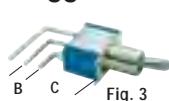


Fig. 3



Fig. 4



Fig. 5



Fig. 6

\* Web Code: PAJ

## Miniature Toggle Switches

Part No.	*Mfr.	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spacing			Terminal Type	Lever Type	Pricing		
								A"	B"	C"			1	10	100
317228	JVP	1MS9T1B1M1QE	1	2	SPST on-off	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.190	—	Solder lugs	Round	\$1.95	\$1.75	\$1.59
76523	JVP	JMT113	1	2	SPST on-off	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.39	1.25	1.09
317287	JVP	1MS9T6B11M1QE	2	3	SPST on-off	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.49	1.35	1.19
777768	C&K	T101MHZOE	1	3	SPDT on-on	3 @ 120	.32 x .20 x .34	—	0.100	—	Solder lugs	Round	5.95	5.49	4.95
26332	JVP	MPC123R	1	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .37	—	0.185	—	PC straight	Round	1.89	1.75	1.49
21936	JVP	JMT123	1	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.55	1.25	1.09
75854	JVP	SWM132	1	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.55	1.25	1.09
317236	JVP	1MS1T1B1M1QE	2	3	SPDT on-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.39	1.25	1.09
317295	JVP	1MS1T6B11M1QE	2	3	SPDT on-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.49	1.35	1.09
317279	JVP	1MS2T1B1M1QE	2	3	SPDT on-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.75	1.59	1.39
317332	JVP	1MS2T6B11M1QE	2	3	SPDT on-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.75	1.59	1.39
22833	JVP	MS102F1-R	2	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .28 x .36	—	0.185	—	Solder lugs	Flat	1.49	1.35	1.09
71597	JVP	SWM148	3	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	0.20	PC right angle	Round	.99	.89	.79
75871	JVP	SWM145	4	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	0.20	PC right angle	Round	1.49	1.35	1.09
567744	C&K	7105	2	3	SPDT (on)-off-(on)	5 @ 125	.50 x .27 x .35	—	0.185	—	PC straight	Round	1.25	1.09	.79
75889	JVP	SWM129	1	3	SPDT (on)-off-(on)	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.49	1.25	1.09
21910	JVP	JMT121	1	3	SPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.35	1.25	1.09
26315	JVP	MPC121	1	3	SPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .32 x .37	—	0.185	—	PC straight	Round	1.29	1.15	1.05
317244	JVP	1MS3T1B1M1QE	2	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.75	1.59	1.39
317308	JVP	1MS3T6B11M1QE	2	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.75	1.59	1.39
317252	JVP	1MS4T1B1M1QE	2	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.75	1.59	1.39
317316	JVP	1MS4T6B11M1QE	2	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.49	1.25	1.09
317261	JVP	1MS5T1B1M1QE	2	3	SPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.75	1.59	1.39
317324	JVP	1MS5T6B11M1QE	2	3	SPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.75	1.59	1.39
2077044	JVP	MTS-103AA	3	3	SPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .32 x .39	—	0.149	0.51	PC right angle	Round	.99	.89	.79
317404	JVP	1MD9T1B1M1QE	5	6	DPST on-off	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	2.29	1.95	1.75
317463	JVP	1MD9T6B11M1QE	5	6	DPST on-off	5 @ 120 & 2 @ 250	.50 x .45 x .50	0.19	0.185	—	Solder lugs	Flat	1.59	1.39	1.19
75900	JVP	SWM133	6	6	DPDT on-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.79	1.59	1.35
21979	JVP	JMT223	6	6	DPDT on-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.49	1.25	1.09
26367	JVP	GTS112-P	6	6	DPDT on-on	6 @ 125 & 3 @ 250	.52 x .50 x .41	0.20	0.157	—	PCB	Round	1.49	1.25	1.09
317412	JVP	1MD1T1B1M1QE	5	6	DPDT on-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	2.29	1.95	1.75
317472	JVP	1MD1T6B11M1QE	5	6	DPDT on-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Flat	2.29	1.95	1.75
317455	JVP	1MD2T1B1M1QE	5	6	DPDT on-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	11.49	1.29	1.09
317519	JVP	1MD2T6B11M1QE	5	6	DPDT on-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .36	0.19	0.185	—	Solder lugs	Flat	2.29	1.95	1.75
22859	JVP	GTS172BLK	5	6	DPDT on-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Flat	1.55	1.25	1.09
202964	♦	WI24	3	6	DPDT on-off-(on)	6 @ 125 & 3 @ 250	.50 x .50 x .46	0.15	0.150	0.20	PC right angle	Round	.99	.89	.79
75951	JVP	SWM130	6	6	DPDT (on)-off-(on)	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.49	1.25	1.09
26358	JVP	MPC221	6	6	DPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	PC straight	Round	1.49	1.25	1.09
21952	JVP	GTS114	6	6	DPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.55	1.25	1.09
317439	JVP	1MD4T1B1M1QE	5	6	DPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	2.29	1.95	1.75
317498	JVP	1MD4T6B11M1QE	5	6	DPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Flat	1.95	1.75	1.59
317447	JVP	1MD5T1B1M1QE	5	6	DPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	2.29	1.95	1.75
317501	JVP	1MD5T6B11M1QE	5	6	DPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Flat	2.29	1.95	1.75
317421	JVP	1MD3T1B1M1QE	5	6	DPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	2.29	1.95	1.75
317490	JVP	1MD3T6B11M1QE	5	6	DPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Flat	2.29	1.95	1.75
22841	JVP	GTS164BLK	5	6	DPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Flat	1.49	1.25	1.09
620576	GCE	35-009	6	6	DPDT on-on-on	5 @ 125	.50 x .45 x .40	.23	.15	—	Solder	Bat brass	3.95	3.59	3.19
547436	ALC	MTA306D	6	9	3PDT on-on	6 @ 125 & 3 @ 250	.70 x .51 x .45	0.19	0.190	—	Solder lugs	Round	10.95	9.95	8.95

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\* ALC = AlcoSwitch | C&K = C&K Switches | GCE = GC Electronics | JVP = Jameco ValuePro | ♦ Manufacturer Varies

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# Subminiature Toggle, Rocker & Specialty Switches

3 LEVELS OF SAVINGS  
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JAMECO ValuePro

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction

**Includes:** Mounting hardware

## Subminiature Toggle Switches

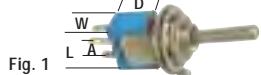


Fig. 1

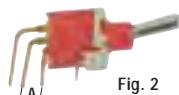


Fig. 2



Fig. 3



Fig. 4

★ Web Code: NAN

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction

**Includes:** Mounting hardware

Part No.	*Manufacturer	Product No.	Fig.	Pins	Contact Form	Contact Rating	Dimensions		Lead Spacing	Terminal Type	Type	Pricing		
					( ) Momentary		(L" x W" x D")	A"	B"			1	10	100
72161	ValuePro	SW1501R	1	2	SPST on-off	1.5A @ 250VAC	.33 x .21 x .33	.10	—	Solder lugs	Round	\$1.29	\$1.15	\$1.05
1585493	C&K	ET012D1AVBE	2	3	SPDT on-on	0.2A @ 20VDC/VAC	.32 x .20 x .18	.10	—	PC right angle	Round	.95	.89	.65
106067	ValuePro	SWP124	3	3	SPDT on-on	0.3A @ 5VDC	.25 x .33 x .40	.20	.10	PC right angle	Round	1.89	1.75	1.49
567752	Fujisoku	AT1D-6M3	3	3	SPDT on-on	0.5A @ 48VDC/VAC	.37 x .22 x .33	.10	—	PC right angle	Round	1.09	.79	.59
75969	ValuePro	SWM136	1	3	SPDT on-on	3A @ 125VAC	.33 x .21 x .33	.10	—	Solder lugs	Round	1.69	1.49	1.29
72557	ValuePro	GTS304	1	3	SPDT on-off-on	1.5A @ 250VAC	.32 x .20 x .28	.10	—	Solder lugs	Round	1.35	1.25	1.09
2076228	C&K (sealed)	ET05J6ABE	3	3	SPDT (on)-off-(on)	4A @ 20VDC/VAC	.32 x .32 x .20	.20	.08	PC right angle	Round	.75	.59	.49
75977	ValuePro	SWM137	4	6	DPDT on-on	1.5A @ 250VAC	.33 x .37 x .33	.17	.10	Solder lugs	Round	1.49	1.35	1.09
138907	ValuePro	SW1503	4	6	DPDT on-off-on	3A @ 120VAC	.36 x .37 x .33	.17	.10	Solder lugs	Round	1.55	1.25	1.09

JAMECO ValuePro

## Panel Mount Rocker Switches

SB cULus

★ Web Code: VBU



### Standard Appliance Rocker Switches

Part No.	*Mfr.	Product No.	Pins	Contact Form	Contact Rating	Dimensions	Lead Space		Rocker Color	Terminal Type	Mounting Type	Pricing		
				( ) Momentary	(A @ VAC)	(L" x W" x D")	A"	B"				1	10	100
316451	JVP	R13-243A-02	2	SPST on-off	8 @ 125	.83 x .37 x .85	0.35	—	Black	.187" quick connect	Panel mount	\$ .89	\$ .79	\$ .69
577221	CHY	RRA22H3BBNN	2	SPST on-off	10 @ 125	.69 x .51 x .64	0.35	—	Black	.187" quick connect	Panel mount	.95	.85	.75
2120196	JVP	HF-606	2	SPST on-off	10 @ 125	.83 x .59 x .55	0.27	—	Black	.187" quick connect	Panel mount	.79	.69	.59
1945276	PRO	BR-12A-55S	2	SPST on-off	10 @ 125	.83 x .59 x .59	0.31	—	Lt. gray	5.5" wire leads	Panel mount	.39	.29	.25
1945284	PRO	R13-66	2	SPST on-off	10 @ 125	.83 x .59 x .55	0.31	—	Dk. gray	5.5" wire leads	Panel mount	.39	.29	.25
316128	JVP	R13-73B-R-02	3	SPST on-off	10 @ 125	.83 x .59 x .87	0.35	0.35	Red illum.	.187" quick connect	Panel mount	1.49	1.35	1.19
316136	JVP	R13-73B-Y-02	3	SPST on-off	10 @ 125	.83 x .59 x .87	0.35	0.35	Yellow illum.	.187" quick connect	Panel mount	.95	.79	.69
196154	JVP	R30NSA-B/B	2	SPST on-off	15 @ 125	1.07 x .42 x .77	0.45	—	Black	.250" quick connect	Panel mount	.69	.65	.55
316014	JVP	R13-66A-B-02R	2	SPST on-off	16 @ 125	.83 x .59 x .63	0.31	—	Black	.187" quick connect	Panel mount	.95	.85	.75
316022	JVP	R13-66A-R-02R	2	SPST on-off	16 @ 125	.83 x .59 x .63	0.31	—	Red	.187" quick connect	Panel mount	.95	.85	.65
316048	JVP	R13-66B-G-02	3	SPST on-off	16 @ 125	.83 x .59 x .47	0.31	0.31	Green illum.	.187" quick connect	Panel mount	1.19	1.05	.89
1945241	ITW	163-099-029	3	SPDT	12 @ 250	1.2 x .55 x .59	0.26	0.26	Black	.250" quick connect	Panel mount	.35	.25	.15
316072	JVP	R13-66D-02	3	SPDT on-off-on	16 @ 125	.83 x .59 x .47	0.31	0.31	Black	.187" quick connect	Panel mount	.95	.85	.75
617473	GCE	35-695	3	SPDT (on)-off-(on)	16 @ 125	.93 x .43 x .62	0.34	0.56	Black	.250" quick connect	Panel mount	4.95	4.49	3.95
316111	JVP	R13-73A2-B-02R	4	DPST on-off	10 @ 125	.83 x .59 x .68	0.20	0.34	Black	.187" quick connect	Panel mount	1.49	1.35	1.19
316153	JVP	R13-73C-R-02R	4	DPST on-off	10 @ 125	.83 x .59 x .87	0.20	0.34	Black	.187" quick connect	Panel mount	1.29	1.15	.95

### Miniature Rocker Switch

617369	JVP	35-676	6	DPDT on-off-on	8 @ 125	—	0.18	0.22	Red	Solder lug	Panel mount	\$4.95	\$4.49	\$3.95
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## Specialty Switches



### Pull Chain Switch

• Current rating: 6A @ 20VAC/VDC; 3A @ 120VAC

Part No.	*Mfr.	Mfr. Part No.	Contact Form	Actuator	Terminal Type	1	10	100
617764	GCE	35-864	SPST on-off	3 1/2" pull chain	6" wires	\$2.69	\$2.49	\$2.29

### Magnetic Proximity

• Current rating: 0.5A @ 20VAC/VDC; 0.08A @ 120VAC, P/N 588123/588182/588131: 30VAC @ .3A

617529	GCE	35-752	SPDT NO/NC	Use magnet	Leaded SD	\$4.95	\$4.49	\$3.95
617545	GCE	35-756	SPDT NO/NC w/o magnet	Need magnet	Screw term., 1/4" gap, surface mount	6.95	6.29	5.69
588123	C&K	MPS20WG	SPST NO	Use magnet	Screw term., 1" gap, surface mount	10.95	10.49	9.95
588182	C&K	MPS9WG	SPST NO	Use magnet	Lead wires, 22AWG, 12'L	8.95	7.95	7.49
588131	C&K	MPS45WG	SPST NO	Use magnet	Lead wires, 22AWG, 12'L	6.29	5.79	5.35

### Knife Switch

• Current rating: 0.5A @ 6VDC • Mounting hole: 3.4mm

617490	GCE	35-730	DPDT on-off-on	Plastic handle	Screw terminal, 0.6" gap/1.25" gap	\$5.95	\$5.35	\$4.79
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## Switch Assortment Kit

SAVE \$63

• 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit

- 10 ea. miniature toggle switches (76523, 21936, 21910, 26332, 26315, 21979, 21952, 26367, 26358), pg 95
- 10 ea. slide switches (109171), pg 94
- 10 ea. pushbutton switches (26623, 26649), pg 93
- 10 ea. DIP switches (38818, 38843), pg 97
- 10 ea. tactile switches (153252), pg 98

Part No.	Description	Wt. (lbs.)	1	5
85059	150 pcs. switch kit	5.0	\$99.95	\$89.95

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\* CHY = Cherry | C&K = C&K Switches | GCE = GC Electronics | JVP = Jameco ValuePro | ITW = Illinois Tool | PRO = Pronic Electronic | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).

## ECE® Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Terminals: PC pin leads
- Life: 10,000 cycles min.
- Op. force: 500g-cm max.
- Lead spacing: A = 0.1"; B = 0.3"
- Material: UL94V-0 grade
- Max. switching load rating: 25mA @ 24VDC
- Size: .39"W x .39"D x .20"H
- Top adjustment



139636

\* Web Code: UAX

Part No.	Mfr. Part No.	Type	Pos.	1	10
139636	ERD110RSZ	BCD	10	\$2.89	\$2.59
139652	ERD116RSZ	HEX	16	2.95	2.65

## 94H Series Rotary DIP Switches

- Make & break rating: 30mA @ 30VDC for 10,000 cycles
- Contact res.: 50mΩ max.
- Type: BCD 10-position
- Carrying current rating: 100mA @ 50VDC
- Insulation resistance: 5,000MΩ min.
- Contact material: 30μ gold over 50μ nickel



697071 788555

Part No.	Mfr. Part No.	Actuator	1	10
697071	94HAB10RAT	Flush right angle	\$1.95	\$1.75
788555	94HBB10T	0.270", straight	2.49	2.25

## JAMECO ValuePro™ Rotary Switches

- Contact rating: 30VDC @ 0.3A; except P/N 2099631: 125VAC @ 0.3A
- Insulation resistance: 10MΩ min.
- Mounting hole diameter: 3/8"; except P/N 2099631: 0.34"
- Contact resistance: 30mΩ • Lug size: 0.07"
- Material: solid brass bushings, slotted aluminum shafts (except for P/N 2099631: D-type and P/N 622352); round, plated frame, plastic contact wafer (except for P/N 622352/2099631 - phenolic casing)
- Make before break; except P/N 2099631: break before make • Panel mount
- Solder eyelet lugs • Layers: 1
- Shaft size: 0.46" L x 0.25" Dia.; except P/N 622352: 1.5" L x 0.25" Dia. and P/N 2099631: 0.34" L x 0.25" Dia.

\* Web Code: DAM



Includes: Washer and nut

Part No.	Product No.	Poles	Pos.	1	10	100
101532	G3SR026	1	12	\$0.95	\$0.85	\$0.75
622352	35-376†	1	12	2.95	2.65	2.39
2099631	SR2511-0205	2	5	.95	.85	.75
101574	G3SR022	2	6	.95	.85	.75
101566	G3SR023	3	4	.95	.85	.75
101558	G3SR024	4	3	.95	.85	.75

† Solder eyelet style

## C&K A Series Rotary Switches

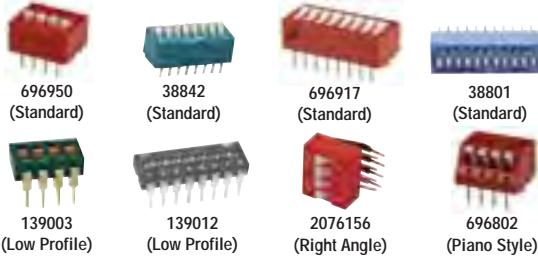
- 1.5" H flattened actuator
- 3/8-32 threaded mounting style
- Solder lug terminals
- Dielectric strength: 1000Vrms
- 15,000 make & break cycles
- Contacts and terminals: brass, silver plated
- Contact resistance: 20mΩ typical @ 2-4VDC
- Contact rating: 2.5A @ 125VAC; 250mA @ 250VDC
- Housing/actuator: glass filled 6/6 nylon (UL94V-0)



Part No.	Mfr. Part No.	Type	Pos.	1	10
576501	A11215RNZO	SP, 300 index	12	\$6.95	\$6.25
576421	A20615RNZO	DP, 300 index	6	6.95	6.25

\* ALC = Alcoswitch | AMP = AMP/Tyco | BNS = Bourns | C&K = C&K Switches | CTS = CTS | FJT = Fujitsu | GRY = Grayhill | JVP = Jameco ValuePro | OMN = Omron | ♦ Manufacturer Varies

## Standard, Low Profile, Piano & Right Angle DIP Switches



Compatible Socket Chart,  
see page 18 for Sockets

Switch	Socket	Switch	Socket
2-position	112193	7-position	112214
3-position	112193	8-position	112222
4-position	112206	9-position	112231
5-position	112214	10-position	38608
6-position	112214	12-position	112282

\* Web Code: UCY

- Switch contacts: SPST
- Piano switches have raised lever

- Low profile switches have either raised or slide levers

• Piano switches have raised lever

Part No.	Product No.	*Mfr.	Type	Pos.	Pricing		
					1	10	100
109057	206-2	♦	1,5	2	\$0.69	\$0.59	\$0.49
1951385	206-2LP	♦	2,6	2	.69	.59	.45
2076156	SDAX-2RX-X	BNS	3,5	2	.59	.45	.39
109059	206-2-VP-R	JVP	3,5	2	.79	.69	.59
206359	206-3	♦	1,5	3	.65	.55	.45
202472	ADF03	ALC	2,6	3	.59	.49	.45
696802	DP-04B	JVP	1,4	4	.95	.85	.75
38818	206-4	♦	1,5	4	.59	.55	.49
38820	DT-04VP	JVP	1,5	4	.75	.65	.59
696950	78B04ST	GRY	1,5	4	1.15	1.05	.85
2082231	3-4356405	AMP	1,7	4	.79	.69	.59
696888	76SB04ST	GRY	1,7	4	.95	.89	.79
206499	DPS804	FJT	2,4	4	.69	.59	.49
139003	206-4LP	JVP	2,5	4	.75	.65	.55
778251	209-4LPST	CTS	2,6	4	.49	.45	.39
2076164	SDAX-4RX-X	BNS	3,5	4	.59	.45	.39
2076181	SDAX-4RX-T	BNS	3,5	4	.69	.59	.49
2082249	JS8805	♦	1,6	5	.59	.49	.39
2082505	206-517	JVP	1,7	5	.59	.49	.45
2082513	206-518	JVP	1,8	5	.59	.49	.45
2076674	DPL-06KT	JVP	1,4	6	.69	.59	.49
38826	206-6	JVP	1,5	6	.89	.79	.69
2076201	A6D-6100LP	OMN	2,6	6	.69	.59	.45
38834	206-7	♦	1,5	7	.95	.89	.79

\*1. Standard; 2. Low Profile; 3. Right Angle; 4. Piano Style; 5. Slide Raised; 6. Slide Flush; 7. Rocker Raised; 8. Rocker Flush

## JAMECO ValuePro™ Tri-State DIP Switch

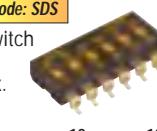
- Pre-tinned leads
- Two isolated buses
- Labeled tri-state positions (+, 0, -)
- Switch contacts: bused, tri-state
- Compatible socket, use P/N 37373, pg 18

Part No.	Cross Ref. No.	Positions	Contact Rating	1	10	100	500
138992	ETA108E	8	24VDC @ 25mA	\$1.95	\$1.75	\$1.49	\$1.25

## SMT Low Profile DIP Switches

\* Web Code: SDS

- Insulation resistance: 1000MΩ (min.) across open switch & between adjacent closed switch
- Contact resistance: 100mΩ initial
- Dielectric strength: 300VAC for 1 min.
- Gold plated beryllium copper contacts, gold flash coated terminals
- Bottom seal/top tape seal
- Non-switching rating: 100mA or 50VDC max.
- Length: 0.246"



Part No.	Manufacturer	Product No.	Positions	Type	1	10	100
2076199	Grayhill	90HBI04SR	4	SPST	\$.35	\$.25	\$.19
546759	Various	3-435668	5	SPST	.39	.29	.25
1945022	Various	SMT-6PDS	6	SPST	.49	.35	.29

## SPST Round Keylock Switches

\* Web Code: RAN

- Used in computer and other security systems
- Mounting hole = 0.75" (except P/N 106650 = 0.5")
- Key removable from 2 positions
- Two keys
- 105832: All keys are different; 196649: All keys are alike
- Includes: Mounting nut



Part No.	Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	1	10	100
106650	KS4B	2, 0.21"	0.55"	Barrel	125VAC/3A	\$4.55	\$4.09	\$3.55
105832	KS3B	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.95	4.49	3.95
196649	3313E-M	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.95	4.49	3.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

# Keypad & Tactile Switches

3 LEVELS OF SAVINGS  
**NAME BRANDS** **HOUSE BRANDS** **FACTORY OVERRUN**

## 12-Button Keypads

Contact resistance: 200Ω max.

### Numeric

- 8-pin & 10-pin .100" header 2082206
- 10 pin w/ multicolor wires
- Contact rating: 12VDC @ 20mA
- Life test: 1,000,000 cycles per key
- Size: 3.0" L x 2.2" W x 0.6" H (8-pin) white
- Size: 2.5" L x 2.1" W x 0.4" H (10-pin) black



Part No.	Description	1	10	100
190562	8-pin header keypad	\$6.95	\$6.25	\$4.95
2081828	10-pin wire keypad	6.95	6.25	4.95
2082206	10-pin header keypad	6.95	6.25	4.95

### Alpha/Numeric

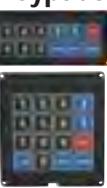
- 8-pin solder pad .100" header
- Contact rating: 24VDC @ 20mA
- Life test: 2,000,000 cycles per key
- Nickel metal form factor and keys
- Size: 4.36" L x 1.56" W x 0.62" H
- Recommended conn.: P/N 103191 header



Part No.	Description	1	10	100
2113455	2x6 keypad	\$21.95	\$19.95	\$17.95

## 16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Compatible with MOS, TTL and DTL (10Ω max.) 196171
- Contact rating: 24VDC @ 10mA resistive
- Fully sealed snap-dome contact
- Life test: 3,000,000 cycles per key
- Size (housing): 4.7" W x 1.7" H x 0.4" T
- Recommended connector: P/N 103191 header & 100766 pin, pg 81 152063



Part No.	Description	1	10	100
196171	2x8 matrix keypad	\$14.95	\$13.49	\$12.49
152063	4x4 matrix keypad	14.95	13.49	12.49

\* Keypads Online — Enter Web Code XBA

## 16-Button Numeric Keypad

- 8-pin solder pad
- Life test: 1,000,000 life cycles per key
- 8-pin male header connector included
- Size: 3.0" L x 2.8" W x 0.6" H

Part No.	Description	Contact Rating	Contact Resis.	1	10	100
169245	4x4 keypad	24VDC @ 20mA	200Ω max.	\$9.95	\$8.95	\$7.95

**Aromat** **KEST** **HAMLIN**

- Logic control levels
- Long life with reliable operation
- Excellent for PCB applications
- Compatible with IC sockets
- Compact design/construction
- Moisture resistant



106463



1860088



2081377

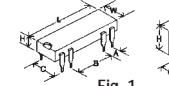


Fig. 1

Fig. 2

Fig. 3

## Relays

### DIP Relays

★ Web Code: QAN

#### Small Quantities Priced Near Cost

Products That Didn't Make The Catalog

Discontinued Consumer Products

And a few surprises...

[www.Jameco.com/TechCenter](http://www.Jameco.com/TechCenter)

Order in multiples of 10



155389



155409

Order in multiples of 10

Part No.	Manufacturer	Product No.	Fig.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Dimensions (L" x W" x H")	Leads (A" x B" x C")	Pricing		
													1	10	100
106463	Excel	201A05	1A	SPST-NO	5VDC	500	100VDC	0.5A	8	37162	.78 x .25 x .20	.10 x .40 x .30	\$2.49	\$2.19	\$1.95
138431	Excel	2D105	1B	SPST-NO	5VDC	500	100VDC	0.5A	8	37162	.77 x .30 x .22	.10 x .40 x .30	2.49	2.19	1.95
1860088	Hamlin Breed	HE3621A0510	—	SPST-NO	5VDC	1000	200VDC	0.5A	4†	—	.75 x .20 x .30	.20 x .60	1.19	.95	.89
173914	Aromat	DS2YE-S-DC5V	2C	DPDT	5VDC	125	125VAC/100VDC	0.5A/1.25A	8	37401	.79 x .38 x .44	.18 x .28 x .29	2.19	1.95	1.75
139977	ValuePro	RSB5S	2C	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37373	.79 x .39 x .37	.20 x .40 x .30	2.49	2.19	1.95
2081414	KEST	KS2E-M-DC5	2C	DPDT	5VDC	128	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.19	1.95
2081377	KEST	KS2E-M-DC12	2C	DPDT	12VDC	708	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.19	1.95
99311	Aromat (NAIS)	DS2Y-S-DC12V	2C	DPDT	12VDC	720	110VAC/30VDC	0.3A/1A	8	37373	.79 x .40 x .43	.20 x .40 x .30	2.49	2.19	1.95
2081406	KEST	KS2E-M-DC24	2C	DPDT	24VDC	1440	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.19	1.95
136549	Aromat	DS4E-M-DC5V	3D	4PDT	5VDC	62.5	125VAC/30VDC	0.6A/2A	14	112301	1.40 x .40 x .36	.20 x .30 x .30	4.95	4.49	3.95

† SIP

\* ESW = E-Switch Inc. | ITT = ITT Cannon | JVP = Jameco ValuePro | OMN = Omron | PAN = Panasonic | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#)

## Small PC Mount Relays

\* Web Code: SAV

Designed for the appliance and temperature control markets, these relays are also well suited for automotive load management.

- Mechanical life: 10 million operations
- Electrical life: 100,000 operations
- Dielectric strength: 1500V<sub>RMS</sub> (between contact and coil)

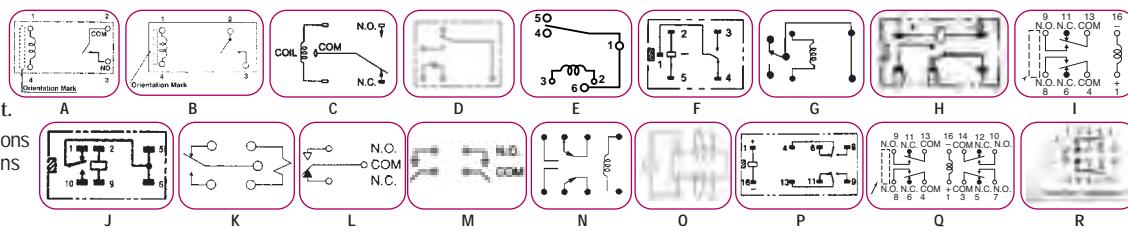


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14

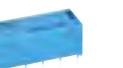


Fig. 15

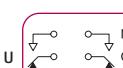


Fig. 16



Fig. 17



Fig. 18

Part No.	Manufacturer	Mfr. Part No.	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Current	Contact Voltage	Pins	Dimensions (L" x W" x H")			Pricing			
											1	10	50				
2077394	Fujitsu	JV-3S-KT	—	1A	SPST-NO	3VDC	45	5A	250VAC/30VDC	4	.69 x .39 x .49	<b>\$2.29</b>	<b>\$2.09</b>	<b>\$1.89</b>			
2077271	Fujitsu	FTR-F2AL006T	—	1B	SPST-NO	6VDC	145	5A	250VAC/30VDC	4	.95 x .43 x .98	<b>1.49</b>	<b>1.29</b>	<b>1.09</b>			
2077378	Fujitsu	FBR161NED006-WB	—	2C	SPST	6VDC	100	10A	120VAC/30VDC	5	.85 x .63 x .63	<b>1.49</b>	<b>1.29</b>	<b>1.09</b>			
<b>2120217</b>	Bestar	BS-114	—	3D	SPST	12VDC	320	10A	120VAC/30VDC	5	.85 x .63 x .63	<b>2.95</b>	<b>2.75</b>	<b>2.49</b>			
145753	Rayex*	L90A-12W <del>R</del>	T90S1D12-12	4E	SPST	12VDC	155	30A/20A	240VAC/28VDC	5	1.2 x 1.0 x .77	<b>2.95</b>	<b>2.75</b>	<b>2.49</b>			
134949	Rayex	L90-5W	T90S5D12-5	4E	SPDT	5VDC	27	20A	240VAC/28VDC	6	1.3 x 1.1 x .80	<b>2.29</b>	<b>2.09</b>	<b>1.89</b>			
187151	Omron	G5LE-1DC5 <del>R</del>	—	2F	SPDT	5VDC	63	10A/8A	120VAC/30VDC	5	.90 x .65 x .75	<b>1.49</b>	<b>1.29</b>	<b>1.09</b>			
843155	Panasonic	JS1-5V	T7C55D-05	5C	SPDT	5VDC	69.4	10A/5A	250VAC/100VDC	5	.87 x .63 x .63	<b>1.19</b>	<b>1.09</b>	<b>.95</b>			
174450	Rayex	LU-5 <del>R</del>	T81H5D215	6G	SPDT	5VDC	125	1A/2A	120VAC/24VDC	6	.60 x .40 x .45	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>			
187418	Omron	G6E-134P-ST-US-DC5	—	7H	SPDT	5VDC	125	.4A/2A	125VAC/30VDC	5	.63 x .39 x .33	<b>2.95</b>	<b>2.75</b>	<b>2.49</b>			
760616	Panasonic	DS1E-S-DC5V <del>R</del>	—	8I	SPDT	5VDC	125	2.0A	125VAC/30VDC	5	.59 x .39 x .39	<b>3.95</b>	<b>3.49</b>	<b>2.95</b>			
187240	Omron	G5V-1-DC5 <del>R</del>	T5C-105L3H	7J	SPDT	5VDC	166.7	.5A/1A	125VAC/24VDC	6	.50 x .30 x .40	<b>2.29</b>	<b>2.09</b>	<b>1.89</b>			
454563	Hasco	KLTIC12DC9	—	6K	SPDT	9VDC	225	12A	120VAC/28VDC	5	.73 x .59 x .61	<b>1.75</b>	<b>1.49</b>	<b>1.25</b>			
664309	Nais (Aromat)	JW1FSN-DC12V	RTB14012F	9L	SPDT	12VDC	270	10A	250VAC/30VDC	5	1.13 x .51 x .79	<b>2.49</b>	<b>2.25</b>	<b>1.95</b>			
144186	Velleman	JZC-22F	VR15M121C	6K	SPDT	12VDC	337	15A	120VAC/28VDC	5	.80 x .64 x .80	<b>2.95</b>	<b>2.75</b>	<b>2.49</b>			
174432	Rayex	LEG-12F <del>R</del>	T7CS5D12	6K	SPDT	12VDC	400	15A	120VAC/24VDC	5	.76 x .62 x .60	<b>1.89</b>	<b>1.59</b>	<b>1.49</b>			
184461	Omron	G5V-1-DC12 <del>R</del>	—	7J	SPDT	12VDC	960	.5A/1A	125VAC/24VDC	6	.50 x .30 x .40	<b>2.29</b>	<b>2.09</b>	<b>1.89</b>			
172937	Nais (Aromat)	JS1-12V	T72M5D121-12	5C	SPDT	12VDC	400	10A/5A	125VAC/24VDC	5	.85 x .62 x .63	<b>1.19</b>	<b>1.09</b>	<b>.95</b>			
2078186	Fujitsu	FBR161NED012	T7CS5D-12	6C	SPDT	12VDC	400	10A	125VAC/30VAC	5	.80 x .60 x .60	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>			
843201	Nais (Aromat)	JW1FSN-DC24V <del>R</del>	RTB14024F	9C	SPDT	24VDC	1100	10A/10A	250VAC/30VDC	5	1.11 x .49 x .78	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>			
187400	Omron	G6E-134P-ST-US-DC48	—	7H	SPDT	48VDC	5760	.4A/2A	125VAC/30VDC	5	.63 x .39 x .33	<b>3.95</b>	<b>3.59</b>	<b>3.29</b>			
998190	Panasonic	JW2ASN-DC5V <del>R</del>	RTE44005F	9M	DPST	5VDC	47	.5A/5A	250VAC/30VDC	6	1.13 x .50 x .79	<b>1.49</b>	<b>1.29</b>	<b>1.09</b>			
215909	Potter & Brumfield	RKA-7DZ-12	—	7N	DPST-NO	12VDC	270	.5A/5A	250VAC/24VDC	6	1.16 x .57 x 1.05	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>			
15051	Panasonic	AGQ200A4HZ	SMD-PKG	10N	DPDT	4.5VDC	145	.3A/1A	125VAC/30VDC	8	.417 x .283 x .213	<b>1.49</b>	<b>1.35</b>	<b>1.19</b>			
2077255	NEC	EE2-4.5NUX-L†	SMD-PKG	10N	DPDT	4.5VDC	145	.5/2A	125VAC/30VDC	8	.59 x .30 x .35	<b>1.49</b>	<b>1.29</b>	<b>1.09</b>			
2095390	Axicom	V23079A1011B301	—	11O	DPDT	4.5VDC	145	2A	250VAC/220VDC	10	.57 x .28 x .39	<b>1.95</b>	<b>1.75</b>	<b>1.49</b>			
2077415	Fujitsu	BA-5W-K	—	12N	DPDT	5VDC	100	.5A/1A	125VAC/30VDC	8	.59 x .29 x .38	<b>2.19</b>	<b>1.89</b>	<b>1.49</b>			
187282	Omron	G6A-234PSTUSDC5 <del>R</del>	C93416	12P	DPDT	5VDC	125	.3A/1A	125VAC/30VDC	8	.80 x .33 x .40	<b>3.95</b>	<b>3.59</b>	<b>3.29</b>			
842953	Panasonic	DS2E-S-DC5V <del>R</del>	—	13O	DPDT	5VDC	125	2A	125VAC/30VDC	8	.79 x .39 x .39	<b>3.95</b>	<b>3.59</b>	<b>3.29</b>			
843649	Panasonic	TXA2SA-5V <del>R</del>	—	10N	DPDT	5VDC	178	2A	30VDC	8	.59 x .29 x .22	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>			
2081650	NEC	EC2-5NJ	—	11N	DPDT	5VDC	178	2A	220VAC/220VDC	8	.59 x .30 x .37	<b>2.49</b>	<b>2.25</b>	<b>1.95</b>			
15034	Panasonic	TN2-5VDC	—	14R	DPDT	5VDC	178	.5A/1A	125VAC/30VDC	10	.55 x .22 x .39	<b>2.49</b>	<b>2.25</b>	<b>1.95</b>			
2077263	Siemens	V23079-F1101-B301†	SMD-PKG	10N	DPDT	5VDC	357	5A	250VAC/220VDC	10	.57 x .28 x .41	<b>1.95</b>	<b>1.69</b>	<b>1.49</b>			
2077386	Fujitsu	AL-D9W-K	—	12S	DPDT	9VDC	45	.5A/1A	125VAC/30VDC	10	.55 x .35 x .20	<b>1.69</b>	<b>1.49</b>	<b>1.29</b>			
174378	Rayex	LM2-12D <del>R</del>	RKA5DZ12	1N	DPDT	12VDC	270	5A	250VAC/30VDC	8	1.2 x .48 x 1.0	<b>2.49</b>	<b>2.25</b>	<b>1.95</b>			
187258	Omron	G5V-2-DC12 <del>R</del>	—	11U	DPDT	12VDC	288	.5A/2A	125VAC/30VDC	8	.81 x .40 x .45	<b>2.85</b>	<b>2.49</b>	<b>2.19</b>			
842793	Panasonic	DS2E-M-DC12V <del>R</del> ⊕	—	13Q	DPDT	12VDC	360	2A	125VAC/30VDC	8	.79 x .39 x .39	<b>2.95</b>	<b>2.75</b>	<b>2.49</b>			
842873	Panasonic	DS2E-ML2-DC12V <del>R</del>	—	8U	DPDT	12VDC	400	2A	250VAC/220VDC	10	.79 x .39 x .39	<b>3.95</b>	<b>3.75</b>	<b>3.35</b>			
2078215	Omron	G2VN-234P-US	—	12P	DPDT	24VDC	1600	.5A/1.5A	120VAC/30VDC	8	.77 x .39 x .401	<b>2.19</b>	<b>1.89</b>	<b>1.49</b>			
200740	Omron	G5V-2-HI	—	11T	DPDT	24VDC	2800	.5A/1A	125VAC/24VDC	8	.81 x .40 x .45	<b>2.29</b>	<b>2.09</b>	<b>1.89</b>			
2078274	Fujitsu	FBR46D024	—	12P	DPDT	24VDC	2880	.5A/1A	120VAC/30VDC	8	.63 x .39 x .33	<b>1.49</b>	<b>1.29</b>	<b>1.09</b>			
842937	Panasonic	DS2E-S-DC24V <del>R</del>	—	8I	DPDT	24VDC	2880	2A	250VAC/220VDC	8	.79 x .39 x .37	<b>3.95</b>	<b>3.59</b>	<b>3.29</b>			
2077360	Fujitsu	RA4-12W-K	—	15V	4PDT	12VDC	720	.5A/1A	120VAC/24VDC	14	1.39 x .39 x .39	<b>3.95</b>	<b>3.49</b>	<b>2.95</b>			

\* Manufacturer may vary    † SMD package    ◉ Blue Part No. = Limited Quantity Available

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)



For complete specifications  
visit [www.Jameco.com](http://www.Jameco.com)

## General Purpose Power Relays

Part No.	Mfr.	Product No.	Contact Form	Rating	Contact Rating	Coil Resis.	Contact Type	1	10	50
454571	Omron	G7L-1A-TUB-CB-DC24	SPST-NO	24VDC @ 79mA	25A, 220VAC	303Ω	.250° quick connect	\$7.95	\$6.95	\$5.95
611928	P&B	T9AP1D52-48-03	SPST-NO	48VDC @ 21mA	30A, 240VAC	2304Ω	Quick connect: .187° for coil/.250° for contacts	3.95	3.69	3.39
137358	ValuePro	953-1C12DM-R	SPDT	12VDC @ 77mA	20A, 240VAC/28VDC	155Ω	Quick connect: .110° for coil/.250° for contacts	2.49	2.19	1.95
552462	P&B	PRD-7AG0-120	DPST-NO	120VAC @ 85mA	30A, 240VAC	290Ω	Screw: #8-32 for main; #6-32 for contacts	29.95	27.49	25.95
183791	Master	GH-2C-12D	DPDT	12VDC @ 170mA	30A, 240VAC	70Ω	Screw down terminals	12.95	11.49	10.95
551881	P&B	PRD-11AG0-120	DPDT	240VAC @ 43mA	30A, 240VAC	1200Ω	Screw: #8-32 for main; #6-32 for contacts	44.95	39.95	34.95



## General Purpose Blade and Octal Relays

\* Web Code: ACF

- UL/CSA approved
- Industry standard termination for quick installation
- Wide range of coil voltages for industrial and commercial applications



Part No.	*Mfr.	Product No.	Fig.	Contact Form	Coil Voltage	Contact Rating	Coil Resis. (Ω)	Coil Current (mA)	Mating Socket*		Pricing		
									Standard	DIN Rail	1	10	50
2096122	Magnecraft	781XAXM4L-12D	1	SPDT <sup>†</sup>	12VDC	20A @ 1200VAC/28VDC	188	100	—	—	\$5.95	\$5.49	\$4.95
282440	P&B	KRPA-5DG-24	2	SPDT	24VDC	10A @ 240VAC	472	51	282132	282159	17.95	16.95	15.95
2119996	Omron	G2R-1-E-ASIT	3	SPDT	24VDC	16A @ 250VAC; 16A @ 30VDC	1100	21.8	—	—	4.95	4.49	3.95
2096131	Magnecraft	781XAXM4L-24A	1	SPDT <sup>†</sup>	24VAC	20A @ 120VAC/28VDC	180	100	—	—	5.95	5.49	4.95
498671	P&B	KUEP-11D15-12	4	DPDT	12VDC	3A @ 150VDC; 10A @ 240VAC	80	150	282124	282175	6.95	6.29	5.75
2093079	Omron	LY2F-DC12	1	DPDT	12VDC	10A @ 24VDC; 10A @ 110VAC	160	75	PT08	175531	5.95	5.39	4.79
139766	Rayex	MK2P-I	5	DPDT	12VDC	10A @ 28VDC; 10A @ 240VAC	120	10	141145	141145	6.95	6.29	5.75
282378	P&B	KRPA-11DG-12	2	DPDT <sup>G</sup>	12VDC	10A @ 240VAC	120	100	282132	282159	11.95	10.95	9.95
172719	ValuePro	LB2-12DS-R	1	DPDT	12VDC	12A @ 30VDC; 12A @ 240VAC	160	75	175531	282191	5.95	5.49	4.95
2095875	Magnecraft	782BXBM4L-12D	3	DPDT <sup>†</sup>	12VDC	12A @ 28VDC; 15A @ 120VAC	160	100	—	—	7.95	7.25	6.49
282255	P&B	K10P-11D15-12	6	DPDT	12VDC	15A @ 30VDC; 15A @ 120VAC	160	75	282191	282191	7.95	7.29	6.49
282386	P&B	KRPA-11DG-24	2	DPDT <sup>G</sup>	24VDC	10A @ 240VAC	472	51	282132	282159	11.95	10.95	9.95
2095867	Magnecraft	782BXBM4L-24D	3	DPDT <sup>†</sup>	24VDC	12A @ 28VDC; 15A @ 120VAC	650	100	—	—	7.95	7.25	6.49
175565	ValuePro	LB2-24DS-R	1	DPDT	24VDC	12A @ 30VDC; 12A @ 240VAC	650	37	175531	282191	5.95	5.49	4.95
282263	P&B	K10P-11D15-24	6	DPDT	24VDC	15A @ 30VDC; 15A @ 120VAC	650	37	282191	282191	7.95	7.29	6.49
301073	P&B	KRPA-11DG-110	2	DPDT <sup>G</sup>	110VDC	10A @ 240VAC	10,000	11.5	282132	282159	10.95	9.95	9.49
175573	ValuePro	LB2-110AS	1	DPDT <sup>G</sup>	110VAC	12A @ 30VDC; 12A @ 240VAC	3,900	28	175531	282191	6.95	6.29	5.49
139740	Beta	BTA6-2C-J-CW-120VAC	5	DPDT	120VAC	10A @ 28VDC; 10A @ 240VAC	1,700	122	141145	141145	6.95	6.29	5.49
2095859	Magnecraft	782BXBM4L120A	3	DPDT <sup>†</sup>	120VAC	12A @ 28VDC; 15A @ 120VAC	4,430	100	—	—	8.95	7.95	6.95
282247	P&B	K10P-11A15-120	6	DPDT	120VAC	15A @ 30VDC; 15A @ 120VAC	3,900	11	282191	282191	7.95	7.29	6.49
282503	P&B	KUP-14D15-24	7	3PDT	24VDC	10A @ 28VDC or 240VAC	472	51	282124	282175	9.95	8.95	8.49
301217	P&B	KRPA-14DN-24	2	3PDT	24VDC	10A @ 28VDC; 6A @ 250VAC	472	51	282141	282167	12.95	11.95	10.95
301170	P&B	KRPA-14AY-120	2	3PDT <sup>Y</sup>	120VAC	5A @ 120VAC; 3A @ 240VAC	2,250	8.75	282141	282167	15.95	14.95	13.95
282301	P&B	KHAU-17D11-12	8	4PDT	12VDC	3A @ 120VAC/28VDC (max)	160	100	496958	282183	6.95	6.29	5.75
291507	ValuePro	LB4H-120-R	1	4PDT	12VDC	5A @ 30VDC; 5A @ 240VAC	160	75	175557	175557	4.95	4.49	3.95
2095891	Magnecraft	7782XDX2M4L-12D	3	4PDT <sup>†</sup>	12VDC	8A @ 28VDC; 10A @ 120VAC	160	100	—	—	7.95	7.25	6.49
175602	ValuePro	LB4H-24DS-R	1	4PDT	24VDC	5A @ 30VDC; 5A @ 240VAC	650	37	175557	175557	4.95	4.49	3.95
282319	P&B	KHAU-17D12-24	8	4PDT	24VDC	5A @ 120VAC/28VDC (max)	650	52	496958	282183	6.95	6.29	5.75
2095939	Magnecraft	782XDX2M4L-24D	3	4PDT	24VDC	8A @ 28VDC; 10A @ 120VAC	650	100	—	—	7.95	7.25	6.49
282280	P&B	KHAU-17A11-24	8	4PDT	24VAC	3A @ 120VAC/28VDC (max)	160	52	496958	282183	6.95	6.29	5.49
2095921	Magnecraft	782XDX2M4L-24A	3	4PDT	24VAC	8A @ 28VDC; 10A @ 120VAC	180	100	—	—	9.95	8.95	7.95
175611	ValuePro	LB4H-110AS-R	1	4PDT <sup>G</sup>	110VAC	5A @ 30VDC; 5A @ 240VAC	3,900	28	175557	175557	4.95	4.49	3.95
2095912	Magnecraft	782XDX2M4L-120A	3	4PDT	120VAC	8A @ 28VDC; 10A @ 120VAC	4,430	100	—	—	7.49	6.75	5.95

\* For sockets see below    † PCB    G = Silver-cadmium oxide, no lamp    Y = Silver contacts, no indicator lamp    1 = Push to test button, bi-polar LED status lamp, ID write-on label, flag indicator

Blue Part No. = Limited Quantity Available

## Blade and Octal Relay Sockets

\* Web Code: TEM

Part No.	Mfr.	Product No.	Relay Series	Pins	Contact Form	Type	1	10	50
141145	Beta	PF-083A	BTA1	8	DPDT	Combo <sup>†</sup>	\$3.95	\$3.69	\$3.39
175531	ValuePro	27E895	K10	8	DPDT	Combo <sup>†</sup>	3.95	3.69	3.39
282191	P&B	27E895	K10	8	DPDT	DIN Rail	4.95	4.79	4.59
282132	P&B	27E122	KRP/KRPA	8	DPDT	Standard	4.95	4.69	4.39
282167	P&B	27E892	KRP/KRPA	11	3PDT	DIN Rail	9.95	8.95	7.95
282175	P&B	27E121	KUP/KUEP/KUMP	11	3PDT	DIN Rail	10.95	9.95	8.95
282141	P&B	27E123	KRP/KRPA	11	3PDT	Standard	6.95	6.29	5.59
282124	P&B	27E121	KUP/KUEP/KUMP	11	3PDT	Standard	6.95	6.29	5.59
175557	ValuePro	27E894	KHAU	14	4PDT	DIN Rail	3.49	3.19	2.79
282183	P&B	27E894	KHA/KHS/PT	14	4PDT	DIN Rail	8.95	7.95	7.29
496958	P&B	27E166	KHA/KHUA	14	4PDT	Standard	11.95	10.95	9.95

† Combo: DIN Rail or Screw Terminal

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Relays, Photocells, Thermistors & Sensors

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## PB CNT Series Multifunction, Digital Time Delay Relay/Counter

- Maximum count: 1 to 999; 10 to 9,990; 100 to 99,900
- Maximum count rate: 100 counts per second
- Rating: 10A @ 30VDC or 277VAC resistive
- 11-pin octal style plug

**Power Requirement:** 10W @ 240VAC/VDC;  
5W @ 120VAC/VDC; 1W @ 24VAC/VDC

Part No.	Mfr. Part No.	Voltage	1	5
282239	CNT-35-96	24-240VAC/VDC	\$119.95	\$109.95



## PB CDB Series CMOS IC Time Delay Relay

- Timing ranges: 0.1 seconds to 180 seconds
- Contact rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 10,000 operations min. @ rated load

**Power Requirement:** AC or DC – typically less than 3W

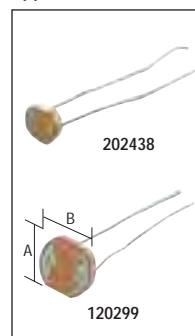
Part No.	Mfr. Part No.	Voltage	Time (sec)	Pins	Price
497299	CDB-38-70004	120VAC	0.6 - 60	8	\$175.95



\*Bistable, Impulse Relays Online — Enter Web Code QDR

JAMECO ValuePro

- Generate variable signal based on detection of light levels
  - Cadmium Sulfide (CdS)
  - Operating temperature: -30°C to +70°C
  - Soldering: 230°C for 3 seconds
- Applications:** Auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers



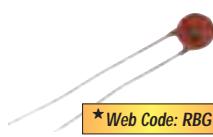
## CdS Photocells

\* Web Code: CBG

## NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Max. allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%

Part No.	Product No.	Resistance	B Constant	Temp. Coef.	Pricing		
		(Ω @ 25°C)	(25/50°C >10%)	@ 25°C (%/°C)	1	10	100
207521	NTC-101A	100	3100	-3.5	\$ .49	\$ .39	\$ .35
207511	NTC-201	200	3100	-3.5	.49	.39	.35
207483	NTC-102A	1k	3800	-4.3	.49	.39	.35
207466	NTC-302	3k	3900	-4.4	.49	.39	.35
207441	NTC-502A	5k	3900	-4.4	.49	.39	.35
207037	NTC-103A	10k	4100	-4.6	.49	.39	.35
207002	NTC-503A	50k	4200	-4.7	.49	.39	.35
206991	NTC-104A	100k	4400	-4.9	.49	.39	.35
206982	NTC-1204A	200k	4500	-5.1	.49	.39	.35



\* Web Code: RGB

## Reed-Based Magnetic Proximity Sensor

- Hermetically sealed contacts
- Zero power consumption
- Contact resistance: 0.2Ω max.
- Suitable for AC/DC circuits
- Breakdown voltage: 200VDC min.
- Operating temp. range: -40°C to 105°C
- Max. switching voltage: 175VDC @ 0.5A
- SPST NO
- 10-watt
- Typical op. time: 0.6ms



Part No.	Mfr. Part No.	Description	1	10	25
513359	MP201901	Magnetic sensor	\$2.95	\$2.59	\$2.29



See page 194 for  
Parallax Sensors  
and Sensor Kits

## Actuator Magnet Speed & Proximity Sensor

- Aluminum housing
- Adjustable thread mounting stud
- Operating range: -40°C to 150°C



\* Web Code: MAS

Part No.	Mfr. Part No.	Pole	1	10
482370	AS101001	South facing	\$4.29	\$3.95

## CHERRY Digital Hall-Effect Magnetic Proximity Sensors



Flange Mount • Applications: door position sensing, flow sensing, pedal switch

- Capable of millions of operations
- Reverse battery protection to -24VDC
- Output saturation voltage max.: 400mV
- Meets IEC529 IPX5 for water protection
- Output wire: 3-wire sink
- Operating voltage range: 4.5-24VDC

513252

\* Web Code: CCC

Part No.	Mfr. Part No.	Supply Curr.	Output Curr.	Op. Point	Rel. Point	Function	Pricing		
		Max. (mA)	Max. (mA)	Gauss (max.)	Gauss (min.)		1	10	25
513252	MP101401	5.2	20	185 (south)	60 (south)	Unipolar switch	\$4.95	\$4.49	\$3.95
513261	MP102103	12	25	300 (north)	195 (north)	Switch	5.95	5.49	4.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Inductive Proximity Switch Sensors

### Cylindrical and Square Styles

- Operating voltage range: 10-30VDC
- Normally open output
- Current consumption: 10mA max.
- Sensing distance:  $\pm 10\%$  (tin)
- Pre-tinned pigtail
- Nominal operating voltage: 12VDC
- Switching frequency: 1.5kHz
- Sensing target: inductive type – magnetic metal
- Fast response
- Short-circuit protected
- LED status indicator
- 6' long cable

\* Web Code: MAX



Part No.	Mfr. Part No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Dimensions (L x Dia.)	Mounting Hole (Ins.)	Pricing		
							1	5	25
421147	CS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	2.2" x 0.83"	0.67	\$15.95	\$14.95	\$13.95
421155	CS12-05N-1	NPN	0-0.4mm	12 x 12 x 1	2.4" x 0.88"	0.67	15.95	14.95	13.95
167020	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	19.95	17.95	15.95
248858	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	19.95	17.95	15.95
155547	S18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.4" Lx1.4" Wx0.7" H	0.112	11.95	10.95	9.95
421163	CS18-05N-1	NPN	0-0.4mm	18 x 18 x 1	2.1" x 1.10"	0.95	19.95	17.95	15.95
421171	CS18-08N-1	NPN	0-6.4mm	18 x 18 x 1	2.4" x 1.10"	0.95	19.95	17.95	15.95
421251	S25-07N-1	NPN	0-5.6mm	25 x 25 x 1	1.4" x 1.50"	0.98	15.95	14.95	13.95
421180	CS30-10N-1	NPN	0-12mm	30 x 30 x 1	2.3" x 1.40"	1.40	24.95	23.95	22.95
421227	TS30-10N-1	NPN	0-8.0mm	30 x 30 x 1	2.4" x 1.10"	1.10	24.95	23.95	22.95

### Photo Electric Sensor

421260	WE-T3AD	NPN	0-5.0mm	$\geq 8\text{mm}$ Dia.	2.6" x 0.708"	0.71	\$36.95	\$33.95	\$31.95
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Light-on



## Hall-Effect Magnetic Proximity Sensor

- With Snap-Fit Mount
- Operating voltage range: 4.75-24VDC
- No mechanical contacts to wear out
- South pole sensitive or bi-polar latch
- Output saturation voltage max.: 400mV
- Output: 3-wire sink
- Solid state reliability
- Immune to dust, dirt, & moisture
- Digital output compatible with all logic families
- Operating temp. range: -40°C to 85°C
- Reverse polarity protection to -24V

\* Web Code: CCC



Part No.	Mfr. Part No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Wire	Pricing		
							1	5	25
513244	MP101301	4	25	300	60	24AWG x 1m	\$4.95	\$4.49	\$3.95



## Magnetic Proximity Sensors

- Omnipolar, magnetically activated switch
- Hermetically sealed
- Contact resistance: 0.2Ω max.
- Can be approached by any magnet from any angle with either pole
- Zero power consumption
- Breakdown voltage: 200VDC min.
- Operating temp. range: -40°C to 105°C
- Suitable for AC/DC circuits
- Immune to hostile environments
- Resistant to dirt and moisture

513279: Aluminum Threaded Housing    513308: Cylindrical Plastic Housing    • Immune to hostile environments    • Resistant to dirt and moisture    • Suitable for AC/DC circuits

© Blue Part No. = Limited Quantity Available



## Fujikura Pressure Sensor

- Pressure range: 0-2.5 kPa
- Operating voltage: 5V @ <10mA
- Max. excitation voltage: 8V
- 1/8" diameter tubing is applicable
- Pressure media: non-corrosive gas
- Pre-calibration of offset volt. & span
- Maximum load pressure: twice rated pressure
- On-chip amplification and temp. compensations
- Volt-level output    • Size: .55" L x .47" W x .20" H



\* Web Code: CBF

Part No.	Mfr. Part No.	1	5	25
196103	XFPN-025-KPGRNW1	\$12.95	\$11.49	\$9.95



## Pressure Sensor

- Typical applications: air movement control, level indicators, leak detection, robotics and industrial controls.
- Case type: 867
  - Pressure output: 0-50kPa
  - Output: 4.7V
  - Operating voltage: 5VDC @ 7mA
  - To convert kPa to PSI: 1kPa = 0.1450377PSI



Part No.	Mfr. Part No.	1	5	25
321293	MPX5050DP	\$19.95	\$18.49	\$16.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

## Solid State Digital Position Sensor

Honeywell

- High output current capability -50mA absolute max.
- Oper. temp. range: -40°C to 150°C
- Supply volt.: 3.8VDC to 30VDC
- 3-pin SIP package
- Output type: sink
- Output current: 20mA max.
- Output leakage current: 10µA max.
- Oper. point 180 gauss @ 25°C
- Release point 180 gauss @ 25°C
- Supply current: 10mA max.
- Output volt.: 40mV



Part No.	Mfr. Part No.	Type	1	10	100
1915915	SS466A	Latching	\$1.09	\$0.99	\$0.85

## CHERRY Gear Tooth Speed Sensor

### Commercial Grade Hall-Effect

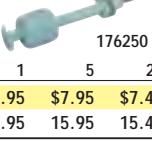
- Operating voltage range: 4.5-24VDC
- Output: sink
- Output current: 25mA max.
- Supply current: 6mA max.
- Barrel length: 1.0"
- Thread: 15/32" - 32
- Reverse battery protection from 24VDC
- Adjustable aluminum housing



Part No.	Mfr. Part No.	1	5	25
512401	GS100701	\$24.95	\$22.95	\$20.95

## Liquid Level Sensors

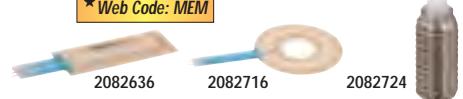
Combine the control box and sensor to activate a water valve. When the sensor is triggered by a tank in either full or empty condition, it will trigger an output status change.



Part No.	Description	1	5	25
176250	24VDC	\$9.95	\$7.95	\$7.49
2119742	180VDC	16.95	15.95	15.49

## Membrane Sensors/ Potentiometers

\* Web Code: MEM



Membrane potentiometers are resistive elements or CARBON position feedback sensors with a sealed encasement and a non-conductive simple wiper assembly that connects the top and bottom circuit. By pressing the wiper down on the top circuit to close the connection with the bottom circuit, the linear sensor produces the desired electrical output. The membrane potentiometer can also be actuated through a manual control. Typical applications are: piston driven motion sensor tracking on chairs or seats, hydraulic motion/tilts, robotics, door & window sensors, medical hand instruments and finger actuated music.

- Thinnest linear stroke sensor: <0.5mmH
- Sealed at IP65
- Simple application
- Ideal for low form factor applications
- Best priced linear stroke sensor on the market

Part No.	Mfr. Part No.	Description	1	10
2082636	SP7182	50mm	\$10.95	\$9.95
2082652	SP7183	100mm	\$12.95	\$11.95
2082679	SP7184	200mm	\$14.95	\$13.49
2082708	SP7186	500mm	\$21.95	\$19.95
2082716	SP7186	Rotary	\$12.95	\$11.95
2082724	WP7688	Wiper	3.49	3.19

# Load Cell Sensors & Speakers

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

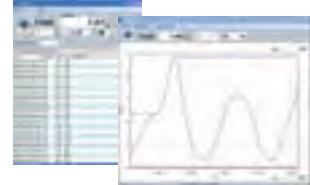


Loadstar Sensors' award winning capacitive load cells offer unmatched ease of use in a low profile, rugged and integrated package. Our load cells offer USB output without the need for any special signal conditioning equipment. These sensors are excellent for R & D labs, universities and test facilities which need to quickly measure loads and forces, log data and visualize the data as a force vs. time plot.

- All products made in the USA
- USB Load Cell software with logging/plotting features included
- CE, UL & FCC Approved



**NEW**  
MARKED IN PINK



## iLoad Mini Stainless Steel Miniature USB Load Cells

- ±1% of full scale accuracy
- USB interface
- 1.25" diameter
- Draws power from USB port of PC

**Includes:** iLoad mini load cell, mini signal conditioner, LoadVUE Pro 1000 USB software and USB cable

Part No.	Description	Price
2120903	10 lb. iLoad mini kit	\$289.95
2120911	50 lb. iLoad mini kit	289.95
2120920	100 lb. iLoad mini kit	289.95
2120938	200 lb. iLoad mini kit	289.95

## iLoad TR Aluminum USB Load Cells

- ±0.25% of full scale accuracy
- USB interface
- 3" diameter
- Designed for off-center loading applications

**Includes:** iLoad TR load cell, LoadVUE Pro 1000 USB software and USB cable

Part No.	Description	Price
2120946	5 lb. iLoad TR kit	\$389.95
2120954	10 lb. iLoad TR kit	389.95
2120962	50 lb. iLoad TR kit	389.95

## iLoad Pro Stainless Steel Industrial USB Load Cells

- ±0.25% of full scale accuracy
- USB interface
- 3.25" diameter
- Cable strain relief

**Includes:** iLoad Pro load cell, LoadVUE Pro 1000 USB software and USB cable

Part No.	Description	Price
2120971	100 lb. iLoad Pro kit	\$489.95
2120989	250 lb. iLoad Pro kit	489.95
2120997	500 lb. iLoad Pro kit	489.95
2121009	1000 lb. iLoad Pro kit	489.95

## LoadVUE Pro 1000 USB Load Cell Software

- View force/load in Pounds, Kilograms, Newtons or Ounces
- Log data to Excel friendly file at user selected intervals
- Up to 150 samples per second
- Plot data as force vs. time graph
- Periodically send force data to email address or mobile phone via SMS

**For complete specs, enter**  
\*Web Code: CLL **on the home page at www.Jameco.com**

## Honeywell

### Relative Humidity Sensor

\*Web Code: WEG

- Linear volt. output vs %RH
- Op. temp.: -40°C to 85°C
- Accuracy (best fit straight line): ±3.5% RH
- Direct input to a controller or other device is made possible by this sensor's linear voltage output
- 3-pin SIP
- High accuracy
- Current supply: 500µA max.
- Designed specifically for high volume OEM

Part No.	Mfr. Part No.	Description
1860248	HIH-4000-003	0.10" lead pitch SIP w/ calibration & data printout



## Avago Ambient Light Optical Sensor

A low-cost analog output ambient light photo sensor in a miniature chip LED lead-free surface mount package. It has a spectrally suited phototransistor, which peaks in human luminosity curve.



\*Web Code: ZZZ

- Supply voltage: 2.4V to 5.5V
- Oper. temp.: -40°C to 85°C
- Light current ratio: 1.2
- Fall time: 0.8 ms
- Rise time: 0.95 ms
- Dark current: 50mA

Part No.	Product No.	1	10	100
1548511	APDS-9002-021	\$ .95	\$ .85	\$ .65

## Ultrasonic Sensor Sets

\*Web Code: CAU

### Motion or Distance Sensing

- Frequency: 40kHz ±1.0kHz
- Aluminum case
- Capacitance: 2000pF ±30%
- 136654: Transmit/Receive Set
- Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40±1.0kHz
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40±1.0kHz (R=3.9kΩ)
- 139492: Transmit/Receive Set
- Capacitance: 2000pF ±20%
- Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40 ±1.0kHz (R=3.9kΩ)

Part No.	Product No.	Case Size	Lead Length/Spacing	1	10	100
136654	40TR16F	0.47"H x 0.62"Dia.	0.39"	\$7.95	\$6.95	\$5.95
139492	40TR12B	0.30"H x 0.43"Dia.	0.28"	7.95	6.95	5.95



## Piezo Transducers (Speakers)

\*Web Code: JPT

Part No.	Manufacturer	Product No.	Fig.	Rated Voltage	Max. Current	Res Frequency	Sound (dB)	Dimensions (H x Dia.)	Pricing		
									1	10	100
1956784	Velleman	TV4	1	1.5Vp-p	1.5mA	4kHz	75	14mm x 50mm	\$2.95	\$2.59	\$2.35
1956776	Velleman	TV1	2	1.5Vp-p	1.5mA	4kHz	85	6mm x 30mm	1.95	1.75	1.59
2098540	Kobitone	PB220-ROX	3	3Vp-p	3mA	2kHz	70	26.5mm x 22mm	1.09	.95	.79
2098523	Kobitone	PB140-ROX	4	5Vp-p	5mA	4kHz	80	6.8mm x 13.8mm	1.29	1.15	.99
2098558	Kobitone	PB160-ROX	5	9Vp-p	7mA	4kHz	80	4mm x 16.5mm	1.19	1.09	.89
2098531	Kobitone	PB102-ROX	6	10Vp-p	5mA	3.2kHz	80	3.2mm x 10mm	1.29	1.15	.99
2099702	Kobitone	256-PB315*	7	10Vp-p	7mA	4kHz	82	7.6 mm x 17mm	1.29	1.15	.99
2099711	Kobitone	256-PB012*	2	10Vp-p	8mA	6kHz	88	4mm x 24mm	1.29	1.15	.99
2099729	Kobitone	256-PB015*	3	10Vp-p	9mA	5kHz	80	4mm x 16.5mm	1.29	1.15	.99
2098566	Kobitone	AZ-3025E-W-LF	2	10Vp-p	9mA	2.5kHz	86	9.5mm x 30mm	1.29	1.15	.99
336276	ValuePro	PT-1250W	3	12Vp-p	2mA	4kHz	75	13mm x 30mm	1.49	1.25	.95
336314	ValuePro	PT-2038FW	8	12Vp-p	3mA	4kHz	80	4.5mm x 24mm	1.49	1.25	.95
2077280	Panasonic	24C411	4	15Vp-p	2mA	4kHz	85	24mm x 6mm	1.49	1.25	.95



\* Requires external drive

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

JAMECO ValuePro

## Magnetic Transducers (Speakers)

\* Web Code: JMT

• Applied voltage: 1/2 duty, square wave

Part No.	Manufacturer	Product No.	Fig.	Oper. Volt. (V/mA)	Volt. Range	Frequency (Hz)	Impedance ( $\Omega$ )	Sound (dB)	Dimensions (H x Dia.)	Pricing		
										1	10	100
207918	ValuePro	DB105GFPN	1	1.5/30	1 - 2	2048	16	75	.22" x .47"	\$ .99	\$ .85	\$ .69
1537408	Various	OMB-01	2	1.5/15	—	2048	30	80	.53" x .63"	.99	.85	.69
106500	ValuePro	SBT-1205	3	5/40	3 - 8	2400	38	85	.40" x .48"	1.29	1.15	.99
138740	ValuePro	DBX05-PN	3	5/40	3 - 8	2400	47	85	.35" x .46"	1.29	1.15	.99
138722	ValuePro	DB11A-PN	3	1.5/10	1 - 2	2048	50	80	.32" x .46"	1.29	1.15	.99
673871	ValuePro	PRT-1205	3	5/40	3 - 8	2400	470	90	.35" x .46"	.79	.65	.49
673774	ValuePro	SBT-1612	2	12/40	6 - 18	2048	200	85	.53" x .62"	.99	.85	.69

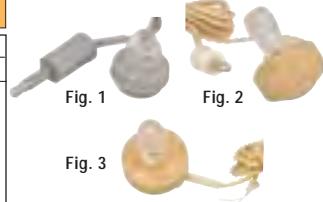


KOBITONE®

## Dynamic & Ceramic Earphones

\* Web Code: EHS

Part No.	Manufacturer	Mfr. Part No.	Fig.	Type	Impedance ( $\Omega$ )	Plug	Cord Length (ft.)	Color	Pricing		
									1	10	100
2098460	Kobitone	25DE035-ROX	1	Dynamic	8 ±20%	3.5mm	3	Gray	\$1.75	\$1.49	\$1.25
2098443	Kobitone	25DE024-ROX	1	Dynamic	8 ±20%	2.5mm	6	Gray	1.49	1.35	1.25
2098451	Kobitone	25DE034-ROX	1	Dynamic	8 ±20%	3.5mm	6	Gray	1.49	1.35	1.25
2098427	Kobitone	25CR035-ROX	2	Ceramic	20M min.	3.5mm	3	Tan	2.29	2.09	1.95
2098435	Kobitone	25CR060-ROX	3	Ceramic	20M min.	Tinned	3	Tan	2.49	2.25	1.95



## Piezo Buzzers (Annunciators)

\* Web Code: JPB

Part No.	Manufacturer	Product No.	Fig.	Tone	Oper. Volt. (V/mA)	Volt. Range	Sound (dB)	Freq. (Hz)	Dimensions (H x Dia.)	Pricing		
										1	10	100
2081246	Shogyo	SEP-220A5	1	Single	3/11	1.5 - 6	85	3000	16mm x 24mm	\$2.19	\$1.95	\$1.75
335557	ValuePro	MSR320	2	Single	3-20/3-16	3 - 20	80	3400	.39" x .91"	2.75	2.55	2.29
337535	ValuePro	SNP428	3	Single	4-28/3-16	4 - 28	76	2900	.85" x 1.64"	2.49	2.25	1.95
1956696	Velleman	SV4/5-S	4	Single	5/25	3 - 6	87	3200	.30" x .47"	3.39	3.09	2.79
2081959	Floyd Bell	UC-05-515-P	5	Single	5/30	5 - 15	96	2100	1.08" x 1.40"	3.95	3.59	3.19
2098611	Kobitone	15210-ROX	1	Single	6/6	3 - 15	90	4000	0.335" x 0.543"	3.49	3.15	2.85
336989	ValuePro	SC616N	6	Single	6-16/6-22	6 - 16	95	2900	1.28" x 1.69"	1.95	1.75	1.55
1956741	Velleman	SVM06	7	Single	6/20	3 - 7	75	300-500	.91" L x .63" W x .59" H	1.95	1.75	1.55
337210	ValuePro	SC628D	6	Single	6-28/5-18	6 - 28	75	1900	1.25" x 1.69"	2.49	2.29	1.95
2098654	Kobitone	35C5-ROX	8	Single	6/40	3 - 15	110	2800	1.02" x 1.65"	4.75	4.25	3.75
2098638	Kobitone	27C0-ROX	9	Single	9/8	3 - 20	97	3500	0.552" x 1.22"	3.69	3.25	2.89
196357	Various	AL-175	10	Single	12/5.8	3 - 16	86	4000	.30" x .54"	1.75	1.49	1.25
1956725	Velleman	SV8	1	Single	12/6	3 - 16	85	4000	.30" x .55"	1.95	1.75	1.59
138713	ValuePro	32S4120-PN	10	Single	12/7	3 - 16	80	4000	.30" x .54"	2.45	2.25	1.95
673900	ValuePro	SEP-1172	11	—†	12/7	3 - 28	81	3300	16mm x 31.4mm	.95	.85	.69
2099690	Kobitone	256-PB313	12	Continuous	12/7	3 - 28	82	3600	.413" x 1.18"	1.95	1.75	1.49
336639	ValuePro	SBM616PU	13	—†	12/8	3 - 28	90	2900	16mm x 42mm	1.95	1.69	1.49
673926	ValuePro	SEP-2202A	1	Single	12/11	3 - 20	85	3000	16mm x 24.2mm	1.49	1.25	.95
1956688	Velleman	SV4	14	Single	12/12	4 - 15	90	2800	.79" x 1.10"	1.85	1.65	1.55
1956750	Velleman	SVM12	7	Single	12/15	7 - 17	75	300-500	.91" L x .63" W x .59" H	1.95	1.75	1.65
1956670	Velleman	SV2	15	Single	12/15	4 - 15	85	2800	.57" x 1.10"	1.95	1.75	1.65
1956709	Velleman	SV4/12-S	4	Single	12/15	8 - 16	85	3200	.30" x .47"	2.95	2.65	2.39
335927	ValuePro	PK-20A38P	1	Single**	12/15	3 - 24	95	3800	18mm x 23mm	2.95	2.59	2.29
335505	ValuePro	MAS800	16	Single	12/50	9 - 12	103	2800	15.2mm x 26mm	1.95	1.75	1.49
32602	ValuePro	11S3240-R	17	Single	24/15	1 - 27	95	2900	1.4" x 1.7"	4.95	4.45	4.29
1956768	Velleman	SVM24	7	Single	24/20	16 - 30	75	300-500	.91" L x .63" W x .59" H	1.95	1.75	1.59
76021	ValuePro	7S3240-LA	17	Single	24/20	1.5 - 28	95	3200	1.0" x 1.1"	3.95	3.49	2.95
249498	ValuePro	110310-LF-TA	17	Dual*	12/25	4 - 16	95	2900	34.5mm x 43.5mm	2.95	2.65	2.39
1956661	Velleman	SV1	18	Dual	12/30	1 - 13	105	2900	1.02" x 1.77"	5.49	4.95	4.49
123538	ValuePro	11D3240	17	Dual*	24/20	4 - 28	80	2900	1.4" x 1.7"	4.19	3.79	3.39
336997	ValuePro	SC616NJ	17	Pulse	6-16/6-22	6 - 16	95	2900	1.28" x 1.69"	4.95	4.49	3.95
335855	ValuePro	PK-12N40P	1	Pulse	12/10	3 - 15	83	4100	8mm x 14mm	2.95	2.59	2.29
2117430	DB Products	7P3120LF-LA	19	Pulse	12/10	3 - 15	90	3200	.98" x 1.10"	3.55	3.19	2.49
336049	ValuePro	PK-27N36W	6	Pulse	12/15	3 - 28	90	3500	10mm x 30mm	2.55	2.19	1.95



\* Continuous or Fast Pulse

\*\* Press fit: Panel hole - 27mm (1.06")

† Requires driver circuit

Electromech

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105

# Buzzers, Sirens & Speakers

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JAMECO ValuePro

## Mechanical/Electromechanical Buzzers

\* Web Code: MEB

Part No.	Manufacturer	Cross Ref. No.	Fig.	Oper. Volt. (V/mA)	Voltage Range	Frequency (Hz)	Sound (dB)	Dimensions	Pricing		
									1	10	100
335370	ValuePro	AST200	1	3/80	2 - 5	2731	85	8.7"sq. x 4.2"H	\$1.49	\$1.29	\$1.09
140695	ValuePro	63S1120-LA	2	12/25	9 - 15	400	75	1.3)L x 0.7" W x 0.6" H	.95	1.59	1.29
335345	ValuePro	ASI301	1	5/30	4 - 7	2400	90	.5)L x .5" W x .4" H	.89	.79	.65
335353	ValuePro	ASI401	1	12/30	8 - 15	2400	90	.5)L x .5" W x .4" H	.89	.79	.65
335388	ValuePro	AST500	1	1.5	1.2 - 3	2400	85	.5)L x .5" W x .4" H	.85	.75	.59
76065	ValuePro	TDB05-PN	3	5/30	4 - 7	2300	85	.35" H x .46" Dia.	2.95	2.75	2.55
24872	ValuePro	63S109LA	2	9/30	6 - 12	400	75	1.3)L x 0.7" W x 0.6" H	1.49	1.35	1.19

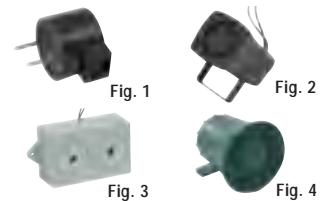


JAMECO ValuePro

## Piezo Sirens

\* Web Code: POS

Part No.	Manufacturer	Product No.	Fig.	Oper. Volt. (V/mA)	Voltage Range	Frequency (Hz)	Sound (dB)	Dimensions	Pricing		
									1	10	100
336225	ValuePro	PS-562	1	12/40	5 - 15	2500/3500	100	16mm x 42mm Dia.	\$4.95	\$4.49	\$3.95
207993	ValuePro	SL15R3120LA	2	12/250	6 - 16	3500	105	2.3)L X 1.8" W X 1.6" H	4.95	4.49	3.95
207889	ValuePro	18R3120	3	12/120	9 - 15	1500/3100	105	3.4)L x 2.2" W x 1.3" H	5.95	5.49	4.95
148152	Various	YC-321-1	4	12/300	2 - 12	3000	108	2.5)L x 2.8" Dia	7.95	6.95	5.95



## Flat Element, Square Speakers

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

\* Web Code: XAE

Part No.	Product No.	Dimensions (Dia." x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Element Size (Dia." x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
34025	GSP02-R	1.2 x 0.2	0.4	0.8	8	70	1300 - 8000	1.2 x 0.1	\$2.25	\$1.95	\$1.49
76030	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 - 6000	1.6 x 0.1	1.95	1.69	1.49
673766	AZ50S	1.9 x 0.2	0.4	0.8	8	70	500 - 6000	1.9 x 0.1	1.75	1.49	1.19



## Alnico Round, Square and Rectangular Speakers

\* Web Code: EAL

Part No.	Product No.	Fig.	Dimensions		Input	Nom (W)	Max (W)	Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing			
			1	2								1	10	100	
2099614	31204	1	4.05 x 1.6	1.0	2.0	4	95	300 - 1200	0.9 x 0.6	\$2.95	\$2.49	\$1.95			
135765	RA2425	2	2.2 x 0.8	0.25	0.5	8	87	400 - 4000	0.5 x 0.4	1.59	1.45	1.09			
88411	A0200	2	2.0 x 0.8	0.2	0.4	8	87	430 - 4500	0.5 x 0.4	2.29	1.95	1.75			
111588	B0102	1	1.7 x 0.6	0.1	0.3	8	83	500 - 5500	0.5 x 0.4	2.39	2.19	1.95			
2115442	K7048202	3	1.6Lx2.8Wx0.9H	3.0	3.0	8	82	310 - 12000	0.87 x 0.29	3.95	3.59	3.19			
135812	A1527C02	3	1.6Lx2.8Wx1.2H	2.0	5.0	8	82	450 - 20000	0.5 x 0.5	4.49	3.95	3.59			
2077301	25S9024	2	2.25 x 0.77	0.2	0.2	8	90	450 - 4000	0.9 x 0.8	1.95	1.69	1.49			
1954834	NMB-0030TT	2	1.8 x 0.5	0.5	1.0	8	87	550 - 6000	0.9 x 0.2	2.49	2.25	1.95			
2081676	FM009A**	1	4.0 x 1.6	15.0	30.0	8	102	900 - 6000	2.8 x 7.3	3.95	3.59	3.19			
1950972	I-826-219*	4	8.2Lx2.2Wx2.0H	1.0	13.0	8	95	30 - 20000	1.5 x 2.8	6.95	6.29	5.49			
2081220	TP-252T	2	2.6 x 0.875	0.5	1.0	16	89	400 - 4000	0.9 x 0.5	2.49	2.25	1.95			
1954826	R11-49†	1	2.9 x 1.2	0.5	1.0	16	89	300 - 7500	0.9 x 0.4	2.49	2.25	1.95			
1954842	609-0033†	3	3.6Lx2.0Wx1.5H	1.0	3.0	16	89	200 - 3000	0.9 x 0.7	2.95	2.59	2.39			
1954851	R-A162†	1	4.0 x 1.5	1.0	2.0	16	89	200 - 3500	0.9 x 0.6	2.95	2.59	2.39			
307820	UF1082	5	1.73 x 0.275	0.5	1.0	40	80	200 - 6000	0.8 x 0.1	2.49	2.19	1.95			



## Micro Round and Rectangular Speakers

\* Web Code: TBX

Part No.	Product No.	Dimensions (Dia." x D")	Input (W)		Impedance (Ω)	Magnet Size (Dia." x H")	Output SPL (dB)	Frequency Range (Hz)	Pricing		
			Nom.	Max.					1	10	100
2099825	H73	0.80 x .115	0.1	0.2	8	0.47 x 0.03	78	800 - 7000	\$1.59	\$1.45	\$1.09
2099606	SP801W	1.05 x 0.35	0.1	0.2	8	0.67 x 0.17	78	320 - 7500	1.75	1.49	1.25
2095242	35CS088-M75NA	1.4Lx1.3Wx0.2H	0.2	0.3	8	0.44 x 0.10	80	550 - 6700	1.95	1.75	1.49
307871	GC0401M	1.57 x 0.67	0.2	0.3	8	0.71 x 0.43	80	600 - 8000	1.49	1.29	1.09
2081191	5000375-00	2.00 x 0.34	0.2	1.5	8	0.63 x 1.14	85	600 - 3000	1.49	1.25	.95
1956590	TR-050F-R	2.00 x 0.70	0.5	1.0	16	1.25 x 0.34	85	500 - 5000	1.49	1.29	1.09
138861	GC0201	0.80 x 0.169	0.1	0.2	32	0.26 x 0.06	78	800 - 7000	.99	.89	.75
2099593	SP452W	2.25 x 0.5	0.1	0.2	45	0.68 x 0.17	86	150 - 9000	1.95	1.79	1.59
355514	YGD40A-50	1.57 x 0.40	0.5	1.0	50	0.72 x 0.43	89	600 - 5200	1.95	1.69	1.49



## 30mm PCB Mountable Speakers

- Ideal for PC board mounting
- Power (nominal/max.): 0.15W/0.2W
- Mylar diaphragm
- Solder leads

135722



## The Best Warranty in the Industry

All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## Round Ferrite Speakers

\* Web Code: TAT

Part No.	Manufacturer	Product No.	Dimensions (Dia. " x D")	Input (W)		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom.	Max.					1	10	100
320135	Various	C35128A†	2.0 x 0.7	0.2	0.4	8	83	420 - 5000	1.3 x 0.4	\$1.49	\$1.25	\$1.09
135589	Various	FE200	2.0 x 0.7	0.2	0.4	8	83	420 - 5000	1.3 x 0.4	1.95	1.69	1.49
320362	Various	TR-057F-R	2.0 x 0.7	0.25	0.5	8	86	900 - 9000	1.3 x 2.5	1.95	1.69	1.49
10840	Various	FE201	2.2 x 0.7	0.2	0.4	8	88	400 - 4500	1.3 x 0.4	1.95	1.69	1.49
2081254	Star	FR-05202-01	2.0 x 1.15	3.0	5.0	8	85	100 - 5000	1.6 x 0.5	2.49	2.25	1.95
1954800	Regal	R-F163†	3.0 x 1.3	1.5	3.0	16	89	200 - 3000	1.8 x 0.4	2.49	2.25	1.95
2099585	Various	RF-608E	2.2 x 0.7	1.0	2.0	48	86	300 - 3000	1.3 x 0.4	2.49	1.95	1.59
2081844	Various	20-220-NSR†	2.0 x 0.7	0.1	0.2	50	86	300 - 3000	1.3 x 0.4	2.49	2.25	1.95

† With lead wires

- Pre-tinned speaker lugs
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm
- Large magnet

For speaker wire,  
see page 61



320135 Side 320135 Back

## Square Ferrite Speakers

\* Web Code: EDT

Part No.	Manufacturer	Product No.	Dimensions (Dia. " x D")	Input (W)		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom.	Max.					1	10	100
99996	Various	FEB204‡	2.6 x 0.9	3.0	4.0	4	95	300 - 14000	1.8 x 0.5	\$2.69	\$2.39	\$2.05
135694	Various	FEB200‡	2.0 x 0.7	0.2	0.3	8	82	500 - 6000	1.3 x 0.5	1.95	1.69	1.49
2099833	Various	964000-002	2.6 x 0.8	0.2	0.3	8	97	500 - 6000	1.3 x 0.4	2.69	2.39	1.95
1954818	Various	TQ-100F-R	4.0 x 1.4	6.0	8.0	8	97	800 - 10000	1.8 x 0.5	2.95	2.59	2.39
31959	Various	FEB216‡	2.6 x 0.8	0.2	0.4	16	85	330 - 8000	1.3 x 0.5	2.69	2.39	2.15
2099577	Various	SP83W	3.0 x 1.5	2.0	3.0	8	90	300 - 10000	1.8 x 0.6	2.95	2.59	1.95

- Pre-tinned speaker lugs
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm
- Large magnet



99996 Side

99996 Back

## Omni-Directional Electret Condenser Microphone Cartridges

Applications: Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors

\* Web Code: QBW

136574/  
320179

1950948

Part No.	Manufacturer	Product No.	Sensitivity (Hz)	Frequency (Hz)	Max. Op. Volt.	Stand Op. Volt.	Max. Current	Sensitivity Reduction	S/N Ratio	Impedance	Terminals	Pricing				
												1	10	100		
1950948	SPK Electronic	EM-4F-31	-60 ±3dB	50-16,000	10VDC	3.0VDC	0.5mA	-3dB @ 3V	>58dB	>2.2kΩ	PC pin leads	.27" x .39"	\$.89	\$.79	\$.69	\$.59
136574	ValuePro	WM-60PC‡	-54 ±2dB	20-12,000	12VDC	4.5VDC	0.5mA	-3dB @ 3V	>40dB	>2.2kΩ	PC pin leads	.30" x .38"	.95	.89	.75	.59
320179	Various	EM-99‡	-64 ±2dB	20-12,000	12VDC	4.5VDC	0.5mA	-3dB @ 3V	>40dB	>2.2kΩ	PC pin leads	.27" x .39"	.85	.75	.69	.65
2099622	ValuePro	C2034A	-46 ±2dB	20-12,000	12VDC	4.5VDC	0.5mA	-3sB @ 1.5V	60dB	2.2kΩ	PC pin leads	.27" x .37"	.85	.75	.69	.59

## Hardware

### Spacers & Electronic Hardware Kit

Includes 2700 pcs. (27 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted Pan Head Screws

100 each	100 each	100 each	100 each	100 each	100 each
Spacers	Hex nuts	Flat	Int. tooth	Split lock	PH machine screws
—	#2	#2	#2	2-56 x 1/4, 1/2	
4-40	4-40	#4	#4	4-40 x 1/4, 1/2	
6-32	6-32	#6	#6	6-32 x 1/4, 1/2	
8-32	8-32	#8	#8	8-32 x 1/4, 1/2	
Part No.	Description		Wt. (lbs.)		1 5
108433	2700 pcs. hardware kit		7.5	\$99.95	\$89.95



### Thumbscrews

\* Web Code: VBZ

Fig. 1

393976

Fig. 2

394071

Aluminum • Blue P/N = Limited Quantity

Part No.	Mfr. Part No.	Fig.	Thread	Thread Length	Length	1	10	100
393976	7100-A‡	1	4-40	5/16"	5/8"	\$.95	\$.75	\$.65
393992	7105-AL‡	1	6-32	1/2"	13/16"	.75	.69	.59
394004	7106-A‡	1	8-32	3/8"	11/16"	.75	.69	.59
394011	7107-A‡	1	10-32	1/2"	13/16"	.75	.69	.59
394063	7125-A‡	2	6-32	3/8"	9/16"	.95	.75	.65
394071	7128-A	2	8-32	3/8"	9/16"	.75	.69	.59

### Aluminum & Brass Round Spacers

\* Web Code: TBO



### 1/4" Outer Diameter

#### 1/4" Outer Diameter (Continued)

Part No.	Mfr. Part No.	Length	ID	1	10	100
393061	1123-4-AL-7‡	3/16"	#4	* \$1.19	\$1.15	
393166	1123-4-B-12‡	3/16"	#4	* .19	.15	
393369	1123-6-B-12‡	3/16"	#6	* .19	.15	
393272	1124-6-AL-7‡	1/4"	#6	.25	.15	
393377	1124-6-B-12‡	1/4"	#6	* .19	.15	
393086	1125-4-A-7‡	5/16"	#4	* .19	.15	
393182	1125-4-B-12‡	5/16"	#4	* .19	.15	
393290	1125-6-AL-7‡	5/16"	#6	* .19	.15	
393385	1125-6-B-12‡	5/16"	#6	* .19	.15	
393095	1126-4-A-7‡	3/8"	#4	* .19	.15	
393191	1126-4-B-12‡	3/8"	#4	* .19	.15	
393297	1126-6-A-7‡	3/8"	#6	* .19	.15	
393393	1126-6-B-12‡	3/8"	#6	* .19	.15	
393203	1127-4-B-12‡	7/16"	#4	* .19	.15	
393300	1127-6-A-7‡	7/16"	#6	* .19	.15	

#### 1/4" Outer Diameter (Continued)

Part No.	Mfr. Part No.	Length	ID	1	10	100
393406	1127-6-B-12‡	7/16"	#6	* \$1.19	\$1.15	
393115	1128-4-A-7‡	1/2"	#4	* .19	.15	
393211	1128-4-B-12‡	1/2"	#4	* .19	.15	
393319	1128-6-A-7‡	1/2"	#6	* .19	.15	
393414	1128-6-B-12‡	1/2"	#6	* .19	.15	
393123	1133-4-A-7‡	13/16"	#4	* .19	.15	
393220	1133-4-B-12‡	13/16"	#4	.29	.25	.19
393326	1133-6-A-7‡	13/16"	#6	* .19	.15	
393422	1133-6-B-12‡	13/16"	#6	.29	.25	.19
393131	1134-4-A-7‡	7/8"	#4	* .19	.15	
393238	1134-4-B-12‡	7/8"	#4	.35	.29	.25
393335	1134-6-A-7‡	7/8"	#6	* .19	.15	
393431	1134-6-B-12‡	7/8"	#6	.39	.35	.29
393140	1136-4-A-7‡	1.0"	#4	* .19	.15	
393246	1136-4-B-12‡	1.0"	#4	.39	.35	.29
393449	1136-6-B-12‡	1.0"	#6	.45	.39	.35

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

# Threaded Standoffs

3 LEVELS OF SAVINGS  
NAME BRANDS   HOUSE BRANDS   FACTORY OVERRUN

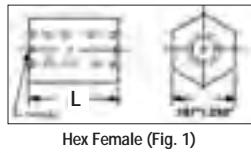
## .187"/.250" Aluminum, Brass & Steel Hex Threaded Standoffs

\* Web Code: TBQ

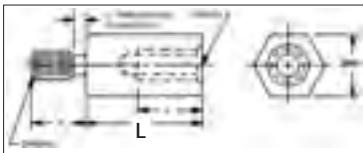
- Finish:
- 1 Brass (plain)
- 2 Aluminum iridite (clear)
- 3 Brass bright tin plate
- 4 Stainless steel
- 5 Brass zinc clear chromate



Female (Fig. 1)



Hex Female (Fig. 1)



Hex Male/Female (Fig. 2)

### Hex Female Standoffs

\* Order in multiples of 10

#### .187" Hex 4-40 Thread (Fig. 1)

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
175636	◆	2052-440S01	.187"	\$ .25	\$ .22	\$ .15
133613	RAF	2053-440AL7R <sup>2</sup>	.250"	.29	.25	.19
102796	JVP	14-552A <sup>3</sup>	.250"	.35	.29	.25
133640	RAF	2057-440AL7R <sup>2</sup>	.500"	.39	.35	.25
139792	RAF	2058-440AL7R <sup>2</sup>	.563"	.29	.25	.19
133648	RAF	2059-440AL7R <sup>2</sup>	.625"	.29	.25	.19
133656	RAF	2061-440AL7R <sup>2</sup>	.750"	.39	.35	.29
139185	RAF	2065-440AL7R <sup>2</sup>	1.00"	.55	.49	.35

#### .250" Hex 4-40 Thread (Fig. 1)

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
139193	RAF	2100-440AT <sup>2</sup>	.250"	\$ .25	\$ .22	\$ .15
1944353	◆	4-40BHEX <sup>1</sup>	.250"	*	.08	.07
77501	RAF	2102-440AL7R <sup>2</sup>	.375"	.29	.25	.19
393693	RAF	2102-440B12R <sup>5</sup>	.375"	.59	.55	.35
134763	RAF	2103-440AL7R <sup>2</sup>	.437"	.39	.35	.19
393705	RAF	2103-440B12 <sup>5</sup>	.437"	*	.19	.15
108371	RAF	2104-440AL7R <sup>2</sup>	.500"	.45	.39	.25
393713	RAF	2104-440B15	.500"	.35	.29	.25
77519	RAF	2106-440AL7R <sup>2</sup>	.625"	.49	.45	.25
393721	RAF	2106-440B12 <sup>5</sup>	.625"	.35	.29	.25
133605	RAF	2108-440AL7R <sup>2</sup>	.750"	.45	.39	.25
393731	RAF	2108-440B12R <sup>5</sup>	.750"	.49	.45	.39
1944370	◆	.2504-40BHEX <sup>1</sup>	.750"	*	.08	.07
139205	RAF	2112-440AT <sup>2</sup>	1.00"	.29	.25	.19
393749	RAF	2112-440B12R <sup>5</sup>	1.00"	.49	.45	.39
387401	RAF	2148-440A7 <sup>2</sup>	6.00"	1.95	1.75	1.49
387428	RAF	2152-440A7 <sup>2</sup>	7.00"	2.95	2.49	2.25
387444	RAF	2156-440A7 <sup>2</sup>	8.00"	2.95	2.49	2.25
387452	RAF	2160-440A7 <sup>2</sup>	9.00"	2.95	2.49	2.25
387461	RAF	2164-440-A-7 <sup>2</sup>	10.0"	2.95	2.49	2.25

#### .250" Hex 6-32 Thread (Fig. 1)

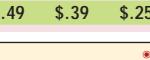
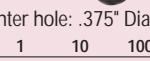
Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
77535	RAF	2100-632AL7R <sup>2</sup>	.250"	\$ .29	\$ .25	\$ .19
1582398	◆	6-32BHEX <sup>1</sup>	.250"	*	.08	.07
133591	RAF	2102-632A7 <sup>2</sup>	.375"	.29	.25	.19
1582400	◆	6-32BHEXF <sup>1</sup>	.375"	*	.08	.07
77543	RAF	2104-632AL7R <sup>2</sup>	.500"	.29	.25	.19
393772	RAF	2104-632B12 <sup>5</sup>	.500"	.35	.29	.25
77552	RAF	2106-632AL7R <sup>2</sup>	.625"	.45	.39	.25
77570	RAF	2108-632AL7R <sup>2</sup>	.750"	.45	.39	.25
77578	RAF	2112-632AL7R <sup>2</sup>	1.00"	.49	.45	.29
1944388	◆	.250,6-32BHEX <sup>1</sup>	1.00"	*	.08	.07
143407	RAF	2120-632A7 <sup>2</sup>	1.50"	.59	.55	.39
393811	RAF	2120-632B12R <sup>5</sup>	1.50"	.75	.69	.65

### Ceramic Donut Magnet

- For science, fridge or projects
- Size: 1.23" Dia. x 0.19" Thick • Center hole: .375" Dia.

Part No.	Product No.	1	10	100
109031	CDM	.....	\$ .49	\$ .39

\$ .25



\* Web Code: BAG

## Slotted Pan Head Machine Screws

Part No.	Screw Size	Thread	Length (in.)	100 piece multiples	
				100	1000
38173	2-56 $\text{A}$	Std	.250	\$.05	\$.04
2094320	2-56 $\text{A}$	Std	.375	.05	.04
2094338	2-56 $\text{A}$	Std	.500	.05	.04
40952	4-40 $\text{A}$	Std	.250	.04	.03
40970	4-40 $\text{A}$	Std	.375	.04	.03
106810	4-40 $\text{A}$	Std	.500	.04	.03
106543	6-32 $\text{A}$	Std	.250	.04	.03
42446	6-32	Std	.375	.04	.03
42438	6-32	Std	.500	.04	.03
2094346	8-32 $\text{A}$	Std	.250	.06	.05
106811	8-32 $\text{A}$	Std	.375	.06	.05
106797	8-32 $\text{A}$	Std	.500	.06	.05

## Phillips Pan Head Machine Screws

Part No.	Screw Size	Thread	Length (in.)	100 piece multiples	
				100	1000
2094354	2-56	Std	.250	\$.05	\$.04
2094362	2-56	Std	.375	.05	.04
2094371	2-56 $\text{A}$	Std	.500	.05	.04
2094389	4-40 $\text{A}$	Std	.250	.04	.03
2094397	4-40 $\text{A}$	Std	.375	.04	.03
2094400	4-40 $\text{A}$	Std	.500	.04	.03
2094418	6-32	Std	.250	.04	.03
2094426	6-32	Std	.375	.04	.03
2094434	6-32	Std	.500	.04	.03
2094442	8-32 $\text{A}$	Std	.250	.06	.05
2094451	8-32 $\text{A}$	Std	.375	.06	.05
2094469	8-32	Std	.500	.06	.05

## Phillips Round Head Machine Screws

Part No.	Screw Size	Thread	Length (in.)	100 piece multiples	
				100	1000
2095111	6-32	Std.	.197	\$.04	\$.03
2082978	6-32 $\text{A}$	Std	.250	.04	.03

## Phillips Button Head Sheet Metal Screws

Part No.	Screw Size	Thread	Length (in.)	100 piece multiples	
				100	1000
2100072	8	Std.	.375	\$.05	\$.04
2100101	6	Std	.375	.05	.04

## Miscellaneous Hardware



\* Order in multiples of 10

Part No.	Description	1 10 100		
		*	\$1.22	\$.10
2100208	Terminal lug, #4 stud washer, 0.470" L (tin)	*	\$1.22	\$.10
2099745	Terminal lug, #4 stud washer, 0.465" L	*	.15	.12
1581695	Offset leg, 6-32 3/8" $\text{A}$ screw terminal: 0.55" L	*	.19	.15
2099753	Terminal lug, #8 stud washer, 0.605" L	*	.19	.15
1582428	Swage threaded 4-40 $\text{A}$ standoff, 0.25" Dia. x 0.23" L	*	.19	.15
1581572	Terminal lug, #6 stud $\text{A}$ Lockwasher, 0.865" L	.25	.22	.15
1582410	Single terminal turretf ..... *.187" L x .109" Th (mtg hole: .078")	*	.19	.15

\*RAF Electronic Hardware Online — Web Code RAF

## SAE Hardware

• Zinc-plated steel

### Hex Nuts

Part No.	Screw Size	Thread	Diameter (in.)	100 piece multiples	
				100	1000
38165	2-56 $\text{A}$	Std	.183	\$.03	\$.02
40943	4-40	Std	.243	.03	.02
42420	6-32	Std	.306	.03	.02
51553	8-32	Std	.344	.03	.02

### Flat Washers

Part No.	Screw Size	Diameter (in.)	100 piece multiples	
			100	1000
2094725	2	.188	\$.03	\$.02
211131	4	.237	.03	.02
106826	4 $\text{A}$	.281	.04	.03
106833	6	.373	.04	.03
106842	8 $\text{A}$	.375	.05	.04

### Internal Tooth Lock Washers

Part Number	Screw Size	Length (in.)	100 piece multiples	
			100	1000
2094733	2	.200	\$.05	\$.04
106850	4	.258	.05	.04
106868	6	.277	.05	.04
106877	8 $\text{A}$	.323	.05	.04

### Fender Washers

Part No.	Screw Size	Diameter (in.)	100 piece multiples	
			100	1000
401146	#10	1	\$.08	\$.07
401154	1/4"	1.25	.08	.07
401162	5/16"	1.5	.08	.07
401171	3/8"	1.5	.08	.07
401189	1/2"	2	.15	.12

JAMECO ValuePak

These durable, pressure sensitive, adhesive-backed urethane bumpers adhere quickly and resist marring and staining on surfaces and give excellent skid and abrasion resistance.

\* Web Code: FAV

## Instrumentation Handles

1954797: Round aluminum black anodized

• 6-32 thread-on 1.25" centers (2)

• Size: 1.4" L x 1.0" H x 0.187" D



216821/457801: Oval aluminum

• 10-32 thread-on 3.00" centers (2)



216821: • Size: 3.3" L x 1.3" H x 0.30" D

457801: • Size: 3.3" L x 1.0" H x 0.25" D

Part No.	Mfr.	Product No.	1	10	100
1954797	Keystone	9116	\$1.49	\$1.25	\$.95
216821	Various	8358-1032-B-5	3.95	3.75	3.49
457801	Various	811-0632-A-24	1.95	1.49	.95

## 2" General Duty Rigid Caster

• Polyolefin wheels give mobility to heavy loads on smooth surfaces

• Mounting bracket 3" L x 1-3/4" W

• Impervious to water and resists chemicals

• Long wearing, light weight and non-marking

• 125 lb. load rating per caster • Caster swivels 360°

Part No.	Description	1	10	25
2082169	2-1/2" ground clearance	\$1.95	\$1.75	\$1.49

## 4-40 Mounting Angle Brackets

Part No.	Size (L" x W" x H")	1	10	100
1581530	.375 x .25 x .353 $\text{A}$	\$.29	\$.25	\$.19
2082581	.548 x .50 x .506	.35	.29	.25

## PCB & Fan Mounting Hardware

- Snap "on"
- Nylon

\* Web Code: PSF

Part No.	Product No.	Size (in.)	Holes	10	100
28337	CS1016	1.2L x 0.6W	.2"	.....	\$.15
129252	PCST2 $\text{A}$	0.9L x 0.4Dia.	.27/3"	.....	.15
148056	PCST3	0.8L x 0.5W	.17/2"	.....	.10
156831	CS-10	0.68L x 0.32Dia.	.14"	.....	.15
2100064	SR1036*	1.5L x .38Lip	.167"	.....	.15

Order in multiples of 10

Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6

Pack	W" x H"	1	10	50
		.....	.....	.....

8.95 7.95 6.95

Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6

Fig. 7 Fig. 8 Fig. 9 Fig. 10 Fig. 11

Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5

Fig. 6 Fig. 7 Fig. 8 Fig. 9 Fig. 10

Fig. 11 Fig. 12 Fig. 13 Fig. 14 Fig. 15

Fig. 16 Fig. 17 Fig. 18 Fig. 19 Fig. 20

## 1.5VDC – 24VDC Motors

★ Web Code: FBN



Fig. 1 Fig. 2

Fig. 3 Fig. 4

Fig. 5 Fig. 6

Fig. 7 Fig. 8

Fig. 9 Fig. 10

Fig. 11



Fig. 12 Fig. 13

Fig. 14 Fig. 15

Fig. 16

Fig. 17 Fig. 18

Fig. 19

Fig. 20 Fig. 21



Fig. 12 Fig. 13

Fig. 14 Fig. 15

Fig. 16

Fig. 17 Fig. 18

Fig. 19

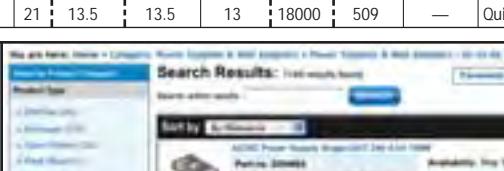
Fig. 20 Fig. 21

Part No.	Manufacturer	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Pricing			
				Current (Amps)	Speed (RPM)	Torque (g-cm)	1	10					100			
231917	ReliaPro	FE-260-2670	1	1.5	1.5-3	0.66	3700	10.5	42.9	0.12"/solder	0.078	0.314	0.937 x 1.063	\$1.75	\$1.55	\$1.39
238465	ReliaPro	RF-310TA-11400 (CW)	2	2.5	1-6	0.06	2190	3.3	75.0	0.05"/solder	0.078	0.70	0.962 x 0.712	2.95	2.65	2.39
238458	ReliaPro	RF-300CA-11400 (CW)R	3	3	1-6	0.065	2400	4.3	56.4	3" wires	0.078	0.19	0.96 x 0.491	3.95	3.49	2.95
1950930	ReliaPro	RF-300CA-11400-22R	3	3	1.2-6	0.073	2970	3.8	55.0	3" wires	0.078	0.22	0.96 x 0.489	3.95	3.49	2.95
154915	Star Motor	ST130-12240-38	4	3	1.5-3	0.17	3588	7.4	55.0	0.09"/solder	0.08	0.37	0.79 x 1.13	1.45	1.29	1.15
1939589	Mabuchi Motor	FF-130RH-15210	5	3	1-4	0.17	4280	5.8	50.0	0.08"/solder	0.08	0.24/0.21	0.79 x 0.98	1.95	1.75	1.59
1951449	ReliaPro	OJT-260-18130	1	3	1.5-4.5	0.46	4780	10.0	40.0	0.12"/solder	0.078	0.314	0.944 x 1.071	1.55	1.39	1.25
231925	ReliaPro	FE-260-2295	1	3	1.5-4.5	0.63	6850	14	53.9	0.12"/solder	0.078	0.314	0.937 x 1.063	1.55	1.39	1.25
154923	Star Motor	ST-130-22770	4	3	1.5-3	1.150	12500	10.3	40.0	0.09"/solder	0.08	0.37	0.79 x 1.13	1.45	1.29	1.15
2078231	Sun Motor	18-2760	6	3	1.5-3	0.35	13800	18.5	—	0.11"/solder	0.08	0.25	0.93 x 1.07	.99	.79	.59
211246	Mabuchi Motor	RC-260RA-2670	6	4.5	3-4.5	1.430	15290	21.8	53.0	0.11"/solder	0.08	0.28	0.93 x 1.06	1.25	1.09	.95
238511	Mabuchi Motor	RF-500TB-12560	7	6	1.5-12	0.08	2180	11.6	50.6	0.08"/solder	0.078	0.385	1.259 x 0.767	3.95	3.49	2.75
231829	ReliaPro	PC-280-16210	8	6	3-12	0.28	4260	18	47.6	0.08"/solder	0.078	0.433	0.944 x 1.200	2.49	2.25	1.95
231781	ReliaPro	PC-130F-12240	9	6	3-9	0.25	6800	7	33.4	0.08"/solder	0.078	0.377	0.803 x 0.984	1.95	1.75	1.59
232144	ReliaPro	FF-050S-11170R	10	7	1.5-9	0.17	8500	7	51.3	0.08"/solder	0.059	0.433	0.61 x 1.059	2.95	2.65	2.39
177498	Mabuchi Motor	RC280RA-2485R	11	7.2	3-14	1.180	14260	33.3	57.0	0.11"/solder	0.08	0.43	0.95 x 1.20	2.25	1.95	1.75
2095533	Mabuchi Motor	RK-270SH-16175	12	9	4.5-18	0.370	6320	32.5	—	0.08"/solder	0.08	0.344	0.96 x 1.21	2.49	2.25	1.95
231802	ReliaPro	PC-130F-10370	9	9	6-12	0.15	6410	8.5	43.9	0.08"/solder	0.078	0.377	0.803 x 0.984	1.75	1.59	1.39
1955669	Canon	DN26-T41NIB	13	12	4-12	0.25	2200	34.33	—	0.11"/solder	0.08	0.30	1.01 x 1.00	1.19	.99	.79
174693	Johnson Electric	21226-384221R	14	12	9-14	0.015	3000	85.06	—	0.11"/solder	0.08	0.69	0.97 x 1.19	2.95	2.65	2.39
232013	ReliaPro	MD5-12160R	15	12	12-24	0.30	4000	34.3	39.1	0.12"/solder	0.091	0.622	1.082 x 1.279	2.25	1.95	1.75
231732	ReliaPro	PC-130SF-09480R	9	12	6-24	0.11	4800	12.3	49.6	0.08"/solder	0.078	0.377	0.803 x 0.984	2.35	2.09	1.85
238473	ReliaPro	RF-370CA-15370	16	12	3-12	0.17	4840	187	75.0	0.08"/solder	0.078	0.346	0.960 x 1.213	5.45	4.95	4.25
206949	Nichibo	OJT360S14280	17	12	9-30	0.35	4930	44.5	52.0	0.11"/solder	0.09	0.45	1.09 x 1.30	2.95	2.75	2.25
667411	ReliaPro	HRF-370CA-12V	18	12	6-15	0.13	5100	20.0	64.0	0.08"/quick conn.	0.08	0.523	0.960 x 1.20	1.55	1.39	1.25
231750	ReliaPro	PC-130SF-09400R	9	12	6-24	0.15	5130	14.3	42.5	0.08"/solder	0.078	0.377	0.803 x 0.984	1.49	1.35	1.19
2081908	Mabuchi Motor	FK260SA-10400	5	12	0-15	0.13	5330	16.33	58.4	0.08"/solder	0.08	0.474	0.952 x 1.06	.95	.85	.75
231896	ReliaPro	FE-260-08450	1	12	6-12	0.11	5560	10.3	46.6	0.12"/solder	0.078	0.314	0.937 x 1.063	1.55	1.39	1.25
232005	ReliaPro	UC-280S-19160R	9	12	6-12	0.57	9000	46.6	63.4	0.08"/solder	0.078	0.433	0.944 x 1.200	2.55	2.29	1.95
1586031	Mabuchi Motor	FK-260SA	5	12	12-24	0.027	5800	14.8	55.0	0.08"/solder	0.08	0.42	0.96 x 1.06	1.09	.95	.85
2081895	Mabuchi Motor	FC-280ST-18180	5	12	8-15	0.69	7880	54.3	59.08	Wire push-in	0.08	0.45	0.945 x 1.32	.95	.85	.75
1810099	Mabuchi Motor	FK-260SA (14280)	5	12	12-24	0.063	8600	14.8	55.0	0.08"/solder	0.08	0.43	0.96 x 1.06	.99	.89	.79
1586058	Mabuchi Motor	FK130RH-10450	13	12	6-18	0.036	9750	8.9	45.0	0.08"/solder	0.08	0.31	0.80 x 0.99	1.09	.95	.85
232040	ReliaPro	MD5-2070R	15	12	6-12	1.20	12150	62.2	54.1	0.12"/solder	0.091	0.622	1.082 x 1.279	2.55	2.29	1.95
232022	ReliaPro	MD5-1885R	15	12	6-18	0.74	9820	53.5	60.7	0.11"/solder	0.091	0.622	1.082 x 1.279	2.95	2.65	2.29
1708351	Nichibo	KD35FN-6531FB	11	12	9-15	1.1	13500	2259	43.0	0.15"/quick conn.	0.128	0.68	1.5 x 2.4	2.95	2.65	2.25
232047	ReliaPro	MD5-2445	15	12	6-12	2.05	19850	79.7	66.0	0.12"/solder	0.091	0.622	1.082 x 1.279	2.75	2.49	2.25
2082177	Johnson Electric	H615-66430	19	13.5	5.0-13.5	1.44	18300	40.6	68.4	0.11"/solder	0.124	0.75	1.4 x 2.23	2.95	2.65	2.39
2082185	Johnson Electric	H615-65050	19	13.6	5.0-13.6	1.44	4575	99.2	—	0.11"/solder	0.124	0.65	1.4 x 1.96	2.49	2.25	1.95
137412	Johnson Electric	3E3151A3	11	14.4	—	1.84	2300	70.8	76.0	20" wires	0.125	0.35	1.40 x 1.96	2.25	1.95	1.75
232101	ReliaPro	MD5-1980AS-AA	20	24	12-24	1.43	22600	88.5	60.9	0.24"/solder	0.091	0.512	1.083 x 1.279	3.95	3.55	2.95
1586040	Mabuchi Motor	RS365PH-112240	19	24	9-28	0.07	10700	411	62.5	0.11"/solder	0.09	0.49	1.08 x 1.28	2.95	2.65	2.39
137614	Johnson Electric	684823A	11	24	—	0.10	2300	78	61.0	0.8"/quick conn.	0.125	0.53	1.40 x 1.96	2.25	1.95	1.75

### Hi-Torque

237391	ReliaPro	29SYT003	21	13.5	13.5	13	18000	509	—	Quick connect	0.125	1.003	1.141 x 2.283	\$6.25	\$5.59	\$4.95
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RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 197.](#)

JAMECO ReliaPro

- Solder-type terminal
- High torque construction
- Insulation resistance: 10MΩ

- Dielectric strength: 300VDC
- Oil bearing design for long service life

**JAMECO**  
EXCLUSIVE

\*Web Code: KBB

## 6, 12 & 24VDC Reversible Gear Head Motors

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	5	25
167039	GH12-0953Y-R	12	4.5 - 24	90	9	1200	188:1	1.0 x 0.9	1.1 x 1.0	.16 x .60	\$18.95	\$16.95	\$15.25
249480	GH12-1213Y7-0	12	4.5 - 24	51	90	460	70:1	1.1 x 0.6	1.0 x 0.9	.16 x .60	19.95	18.95	17.95
167047	GH12-1828Y-R	12	4.5 - 24	195	31	1300	90:1	1.1 x 1.3	1.1 x 0.8	.16 x .60	23.95	21.55	19.45

### HN27GD Series



167039  
HN27GD Series

### GH30GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	5	25
153438	GH12-1045Y-R	12	3.0 - 12	90	13	800	200:1	0.9 x 1.0	1.1 x 0.6	.16 x .70	\$18.95	\$16.95	\$15.25
170642	GH12-1828Y-10-R	12	6.0 - 24	105	8	3500	332:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	26.95	24.25	21.95
159418	GH12-1921Y-R	12	4.5 - 12	200	25	2000	132:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	25.95	23.25	20.95
162191	GH12-1324Y225-R	12	4.5 - 12	145	190	300	30:1	1.0 x 0.9	1.1 x 0.6	.16 x .70	17.95	15.95	14.35

### 32GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	5	25
253403	32-009	6	64	2.7	2500	450:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	\$19.95	\$17.95	\$15.95
253323	32-004	6	44	6	1500	200:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	14.95	13.49	11.95
253307	32-002	6	38	8	1200	150:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	19.95	17.95	15.95

### 38GM Series

253534	38-010	12	97	24	7500	250:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	\$21.95	\$19.75	\$17.75
253526	38-009	12	93.5	36	5400	167:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	18.95	16.95	15.35
253518	38-008	12	87.5	40	4800	150:1	1.5 x 0.7	1.3 x 0.1	.20 x .50	18.95	16.95	15.35
253500	38-007	12	82	60	3200	100:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	19.95	17.95	15.95
253497	38-006	12	80	66	2100	90:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	19.95	17.95	15.95
253489	38-005	12	76	110	1300	56:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	18.95	16.95	15.35
253471	38-004	12	74	120	1100	50:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	14.95	13.45	11.95
253446	38-001	12	61.8	600	350	10:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	21.95	19.75	17.75

### GH35GM Series Plastic Gears

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	5	25
155012	GH12-1926R	12	4.5 - 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$21.95	\$19.95	\$17.95
155821	GH12-1830Y-P-R	12	4.5 - 12	220	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	22.95	20.49	18.49
155839	GH12-1641T-L-R	12	3.0 - 12	250	20	3000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	25.95	23.35	20.95
152911	GH12-1926Y-R	12	4.5 - 12	172	40	2370	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	24.95	22.45	19.95
155855	GH12-1641T-F-R	12	3.0 - 12	250	71	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	24.95	22.45	19.95
151441	GH12-1632T-R	12	4.5 - 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	19.95	17.95
155863	GH12-1926Y-F-R	12	4.5 - 12	300	70	1000	60:1	1.4 x 0.7	1.3 x 1.0	.24 x .70	24.95	22.45	19.95
161374	GH12-1345T-R	12	4.5 - 12	185	116	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	21.49	19.49
161382	GH12-1634T-R	12	4.5 - 12	293	145	850	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.95	17.95
164786	GH12-1640Y-R	12	4.5 - 24	120	220	180	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	28.95	25.95	22.95
176050	GH12-1640Y00R	24	12 - 24	340	1.8	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	22.95	20.49	18.49
11799	CB5M-24-R	24	6 - 24	110	14.6	1800	—	1.3 x 1.0	1.4 x 1.1	.196 x .375	11.95	10.75	9.49
176032	GH24-1640Y06R	24	12 - 24	340	50	2000	90:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	24.95	22.45	19.95
176023	GH24-1640Y19R	24	12 - 24	340	148	1000	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	24.95	22.45	19.95

### GH35GM Series Metal Gears

155013	HN-GH12-1632T-R-M-R	12	4.5 - 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$21.95	\$19.95	\$17.95
155822	GH12-1830Y-P-R-M-R	12	4.5 - 12	250	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	22.95	20.65	18.55
151442	HN-GH12-1632T-R-M-R	12	4.5 - 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	19.95	17.95
155864	GH12-1926Y-F-R-M-R	12	4.5 - 12	300	70	1000	60:1	1.3 x 0.9	1.4 x 0.9	.24 x .70	21.95	19.95	17.95

### 120VAC Gear Motor

#### 6.0 RPM - 2.9 Watt

- Operating voltage: 120VAC @ 60Hz
- Torque: >3.6 kg-cm
- Screw down tabs for mounting (2.3" diagonal mounting hole space)
- Typical applications: air conditioner turnleaf motor, microwave turnplate motor

\*Web Code: KBB

Part No.	Product No.	Shaft Dia./Length	Connector	Size	1	5	25
213488	SOTYZ-R-R	0.27" x 0.65"	12" wires	2.0"D x 1.0T .....	\$14.95	\$13.45	\$11.95

Part No.	Mfr. P/N	Size (L"xW"xH")	1	5	25
400995	GM8	2.2 x 1.9 x 0.9	\$8.75	\$7.75	\$6.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



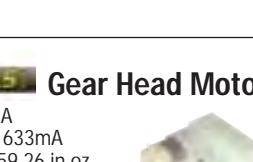
Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)



155013  
GH35GM Series



155013  
GH35GM Series



155013  
GH35GM Series

# Vibrating Motors

JAMECO ReliaPro

- Typical applications: cellular phones, pagers and toys



Fig. 1

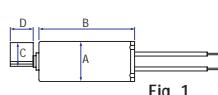


Fig. 1

## 1.3VDC & 3VDC Vibrating Motors

**JAMECO**  
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\* Web Code: NBC



Fig. 2



Fig. 3



Fig. 4

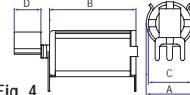


Fig. 4

Part No.	Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (in.)	Motor Size (A x B) (Dia. " x Depth")	Shaft Size (C x D) (Dia. " x Length")	Pricing		
									1	10	100
175062	OTL-7AL	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	\$4.55	\$3.95	\$3.69
256357	7ZK642R	2	1.3 @ 70	1.00 - 1.60	7500 @ 1.3	4.7	0.28 x 0.66	0.18 x 0.22	3.49	2.95	2.65
175396	OTL-4AL	3	1.3 @ 65	0.70 - 1.60	8500 @ 1.3	0.75	0.16 x 0.55	0.15 x 0.23	4.75	4.25	3.85
256306	6ZK003R	2	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	3.35	2.95	2.65
256322	6ZK211R	4	1.3 @ 80	0.80 - 1.60	8500 @ 1.3	PC terminal	0.27 x 0.48	0.11 x 0.11	2.75	2.49	2.25
256365	7ZK692R	2	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256382	7ZK681R	2	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
256314	6ZK053R	2	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.25	2.95	2.65
256331	6ZK261R	4	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC terminal	0.27 x 0.48	0.11 x 0.11	3.25	2.95	2.65

## Stepper Motor Controllers

### Multi-Stepper Motor Control Board

- Current-mode coil driver up to 2A/45V
  - 11 analog channels, A/D converter, 12-bit resolution
  - 24-bit position register; can be read while motor is moving
  - High-speed serial communication interface 9.6kbps-230.4kbps
  - Linear acceleration/deceleration capability up to 8500 step/sec.
  - Full step (monophasic and biphasic), half step and external driver modes
  - Simultaneous/independent control of up to 16 stepper motors through a single serial port
  - 26 digital I/O and two SPI interfaces for control of external devices
- \* Web Code: VBA

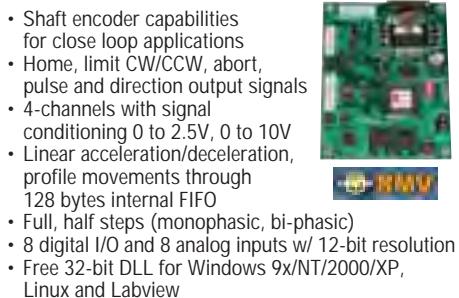


Shown w/ motors  
- not included

Part No.	Mfr. Part No.	1	5
168729	ST400NT-R10R	\$399.95	\$379.95

### Sport232-ST One Axis Stepper Motor Controller & DAC Board

- Shaft encoder capabilities for close loop applications
- Home, limit CW/CCW, abort, pulse and direction output signals
- 4-channels with signal conditioning 0 to 2.5V, 0 to 10V
- Linear acceleration/deceleration, profile movements through 128 bytes internal FIFO
- Full, half steps (monophasic, bi-phasic)
- 8 digital I/O and 8 analog inputs w/ 12-bit resolution
- Free 32-bit DLL for Windows 9x/NT/2000/XP, Linux and Labview



Part No.	Mfr. Part No.	1	5
355047	Sport232-ST	\$164.95	\$156.75

### 32-Bit Stepper Motor Controller One Axis

- Controls one bipolar stepper motor with 32-bit absolute position
  - Multiple boards may share same serial line (RS485 only)
  - Full, half or wave step modes
  - 2 channel general purpose 8-bit A/D input port for reading 0 to 5V
  - Interface to PC through RS232 or RS485 @ 2400-19,200bps
  - 4-bit digital input for home limits
  - Addressable up to 255 boards
- Includes: Manual and sample code software



PONTECH

Part No.	Mfr. Part No.	1	5
153621	STP-100	\$149.95	\$134.95

## KAE

### Industrial Motion Controllers for Brush, Brushless & Stepper Motors

\* Web Code: QBV

323942: • For brush-type DC motors with 2 or 3 channel incremental encoders

- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps

323951: • For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors

- Amplifier capable of driving 6A continuously @ up to 48VDC
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Support for linear & circular interpolation using the PIC-SERVO CMC chipset

184997: • Trapezoidal position profiling, velocity mode, up to 50,000 steps per second

- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Integrated indexer and driver for 2 or 4 phase stepper motors

Part No.	Mfr. Part No.	Description
----------	---------------	-------------

323942	KAE-T0V10-BDV1	PIC-SERVO motor control board
323951	KAE-T0V10-BD3PHV1	PIC-SERVO 3-phase motor control board for brush or brushless motors
184997	PIC-STEP	PIC-STEP motor control board



323942



184997

Size (L x W x H)	1	5
3.1" x 2.1" x 0.9"	\$159.95	\$151.95
3.1" x 3.1" x 0.9"	239.95	227.95
3.1" x 2.1" x 0.9"	159.95	151.95



See page 191 for  
Motor Speed  
Control Kit &  
Motor Driver Kits

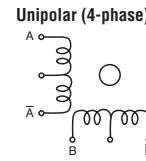
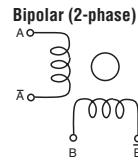


RoHS compliant product   This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## Bipolar & Unipolar Stepper Motors

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 24VDC models below.

- Ball bearings
- Dielectric strength: 500V, 50Hz/minute
- Insulation resistance: 100MΩ @ 500VDC
- 18" lead wires
- Ambient temp.: -10°C to +55°C
- Use P/N 161998, pg 193, for shaft coupler



Part No.	*Mfr.	Product No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resist. (Ω)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Wt. (lbs.)	Pricing		
																			1	5	25
237569	JRP	57BYG009	1	Unipolar	2.4	1.8	1	2400	1.5	—	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	\$24.95	\$22.49	\$19.95
237614	JRP	57BYGH801	2	Unipolar	3.3	1.8	2.2	1500	22	—	5608	1.86	0.20	0.25	0.83	2.24	2.01	1.32	31.95	28.95	25.95
1581231	ORM	PX243M-01AA	3	Unipolar	4	0.9	8.4	670	10	—	793	1.79	0.08	0.195	0.88	1.67	1.27	0.46	19.95	17.95	15.95
237552	JRP	57BYG008*	1	Unipolar	4	1.8	3.1	1300	4.4	—	4996	1.86	0.20	0.25	0.83	2.29	2.01	1.30	31.95	28.95	25.95
237607	JRP	57BYGH001*	2	Unipolar	5	1.8	5	1000	—	—	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	36.95	33.25	29.95
237825	JRP	25BY4801	4	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	9.95	8.95	7.95
223870	JRP	57BYG070	1	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.20	2.00	29.95	26.95	24.25
237631	JRP	57BYGH803	2	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	59.95	53.95	48.95
171601	♦	PF35T48L4*	5	Unipolar	7	7.5	20	350	9	40	680	1.68	0.14	0.078	0.47	1.38	0.58	0.15	2.95	1.95	1.75
172646	JRP	42BYG205	1	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	19.95	17.95	15.95
224022	JRP	42BYG016*	6	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	21.95	19.75	17.75
155433	JRP	42BYG228*	6	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	20.95	18.95	16.95
237543	JRP	57BYG007*	1	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	24.95	22.49	19.95
238538	JRP	42BYGH404*	7	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	21.95	19.75	17.75
162027	JRP	57BYG084*	1	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	35.95	32.25	28.95
237876	JRP	25BY4809	4	Unipolar	20	7.5	50	400	16	45	155	1.42	0.35	0.08	0.22	0.98	0.87	0.10	4.95	4.49	3.95
238115	JRP	35BY48B08	8	Unipolar	24	7.5	75	320	38	65	270	1.65	0.13	0.08	0.35	1.38	0.59	0.15	8.49	7.49	6.75
237729	JRP	42BY48H07	9	Unipolar	24	7.5	85	280	78	130	780	1.95	0.14	0.12	0.39	1.65	0.87	0.27	6.95	6.25	5.49
237497	JRP	39BYG101-01	6	Bipolar	2.7	1.8	6.8	400	6.5	150	650	1.22	0.10	0.20	0.75	1.54	0.79	0.26	16.95	15.25	13.75
237490	JRP	39BYG001*	6	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	19.95	17.95	15.95
237578	JRP	57BYG061*	1	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	37.95	33.95	30.75
237519	JRP	42BYG017*	6	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.10	0.20	0.51	1.67	1.34	0.50	19.95	17.95	15.95
237454	JRP	39BYG201*	6	Bipolar	9.6	1.8	20	480	—	200	1000	1.22	0.10	0.20	0.20	1.54	0.98	0.44	18.95	17.95	16.95
155460	JRP	42BYG023*	6	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	20.95	18.95	17.45
237472	JRP	39BYG401A*	6	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	21.95	19.75	17.75
1585653	JPN	KP35FM2-044	10	Bipolar	24	1.8	8	500	7.8	90	700	1.45	0.09	0.197	0.90	1.62	1.05	0.32	5.95	5.35	4.85

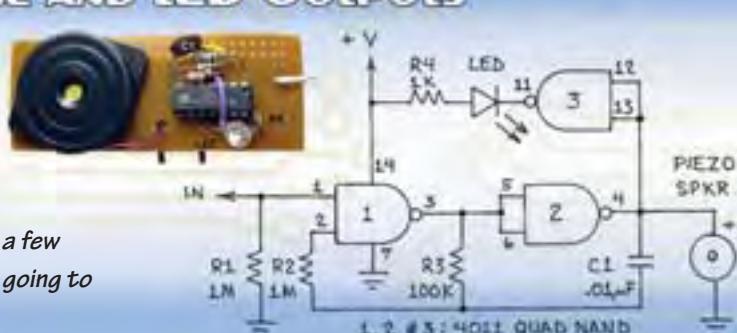
\* 171601: Dual shaft with 10 tooth gear

\*\* 155460: Dual shaft

## VOLTAGE PROBE WITH TONE AND LED OUTPUTS

by Forrest M. Mims III

A voltage probe can be very handy when troubleshooting circuits. This one described here indicates a positive voltage with both a tone and a glowing LED. It is powered by the circuit being tested, so it needs no onboard power supply. It can be built for a few dollars and can be easily modified. See how it works by going to [www.Jameco.com/FMR7](http://www.Jameco.com/FMR7)



\* JRP = Jameco ReliaPro | JPN = Japan Servo | ORM = Orient Motor | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Servo Motors & Solenoids

3 LEVELS OF SAVINGS  
**NAME BRANDS** **HOUSE BRANDS** **FACTORY OVERRUN**

**Scott Edwards Electronics, Inc.**

## Serial Servo Controller Module

- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115554, pg 62) or modular adapter from DB9 to RJ11 (P/N 114738, pg 62)
- Size (PCB): 1.9" L x 1.4" W
- One-year warranty



Part No.	Description	1	5
151001	Mini SSC II	\$43.95	\$41.75

## Continuous Rotation Servos

Controlled easily from a BASIC Stamp or SX chip I/O pin using PBASICs or SX/B's PULSOUT commands

- 4-6VDC @ ~190mA
- 2110692/283021: Holds position over 180° range; standard servo
- 283039: Bi-directional continuous rotation and includes an adjustable potentiometer port to center the servo

PARALLAX



Part No.	Mfr. Part No.	Size (L" x W" x H")	1	5
283021	900-00005A	2.2 x 0.8 x 1.6 ....	\$14.95	\$13.95
283039	900-00008	2.2 x 0.8 x 1.6 ....	14.95	13.49
2110692	900-00014A	0.9 x 0.37 x 0.61 ..	19.95	17.95

## Servo Motors and Accessories

- + pulse width 1500usec neutral control system
- Operating voltage range: 4.8V to 6V

### Motors

**HITEC**



\* Web Code: SMA

Part No.	Mfr. Part No.	Oper. Speed (4.8V @ no load)	Stall Torque @ 4.8V (kg.cm)	Direction	Operating Angle	Current Drain (mA, idle/mA no load)	Dimensions (L" x W" x H")	Pricing	
								1	5
358619	HS-805BB	.19sec/600	19.9	Clockwise	45°/one side pulse	8/700	2.6 x 1.2 x 1.3	\$59.95	\$56.95
395760	HS-422	.21sec/600	3.3	Clockwise	45°/one side pulse	8/150	1.6 x 0.8 x 1.4	19.95	18.95
395760	HS-322HD	.19sec/600	3.0	Clockwise	40°/one side pulse	7.4/160	2.1 x 0.8 x 1.4	12.95	11.49
358635	HS-311	.19sec/600	3.0	Clockwise	40°/one side pulse	7.4/160	1.5 x 0.8 x 1.1	16.95	15.95
166351	HS-755HB	.28sec/600	11.0	Clockwise	40°/one side pulse	8/230	2.3 x 1.1 x 2.0	44.95	42.95

### Accessories

Part No.	Description	1	5
358811	Servo gripper, 1.3" opening (compatible with all servos above)	\$19.95	\$18.95
400400	Servo gearbox, 2:1 ratio, for use with P/N 358619	34.95	29.95
400418	Servo gearbox, 4:1 ratio, for use with P/N 358619	34.95	29.95
396279	3 color servo wire (red, black, yellow), 22-20, 50'	15.95	14.49

## 12VDC Solenoid Valve

- Current: 350mA
- Operating voltage: 12VDC
- Dimensions: 1.2" L x 0.92" Dia.
- Air leakage: 4psi, 1c.c./min, max.
- 0.250° quick disconnect terminals
- Operational temp.: -29°C to 85°C



\* Web Code: MEJ

## 12VDC Power Solenoid

- 12VDC
- 4Ω coil
- Handles a 225A load
- Intermittent 50% duty cycle
- 1/4-20 copper studs
- Contractors power solenoid
- 2.25" mounting centers
- Size: 1.86" x 3" base



\* Web Code: MEJ

Part No.	Product No.	1	5	25
169835	TAV-0829-R	\$9.95	\$8.95	\$7.95

Part No.	Product No.	1	5	25
1585645	93285	\$3.95	\$3.49	\$2.95

## 12VDC & 24VDC Continuous Push/Pull Solenoids

\* Web Code: MEJ



Part No.	*Mfr.	Product No.	Type	Volt. (VDC)	Coil Res. (%@10%) (Ω)	Power Consump. (W)	Holding Force (lbs. @20°C)	Stroke (in.)	Dimensions Length x Dia. (in.)†	Shaft Dia. (in.)	Wt. (lbs.)	Pricing		
												1	5	25
1919351	JRP	SMO-0415S12STD	Open frame-push	12	180	0.8	0.026	0.20	0.6 x 0.4 x 0.3	0.157	0.02	\$16.95	\$15.25	\$13.75
1919385	JRP	SMO-0420S12STD	Open frame-push	12	120	1.2	0.04	0.10	0.8 x 0.5 x 0.4	0.060	0.02	14.95	13.49	11.95
1919377	JRP	SMO-0415L12STD	Open frame-pull	12	120	1.2	0.04	0.10	0.8 x 0.5 x 0.4	0.157	0.02	9.95	8.95	7.95
1919393	JRP	SMO-0420L12STD	Open frame-pull	12	120	1.2	0.04	0.10	0.8 x 0.5 x 0.4	0.070	0.02	8.95	7.95	6.95
262247	JRP	SMO-0520L12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.200	0.04	9.95	8.95	7.95
1919414	JRP	SMO-0630L12STD	Open frame-pull	12	60	2.4	0.187	0.10	1.2 x 0.8 x 0.6	0.060	0.10	14.95	13.49	11.95
262263	JRP	SMO-0837L12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	0.21	10.95	9.95	8.75
262272	JRP	SMO-0837S12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	10.95	9.95	8.75
262290	JRP	SMO-1253L12AA	Open frame-pull	12	24	6.0	3.31	0.24	2.1 x 1.8 x 1.1	0.472	0.46	9.95	8.95	7.95
262167	JRP	SMT-1325L12STD	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.200	0.05	14.95	13.45	11.95
142464	JRP	SMT-1130L12AA	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	0.04	12.95	11.49	9.95
1919422	JRP	SMT-1632L12STD	Tubular-pull	12	26.6	5.5	0.88	0.06	1.6 x 0.6	0.196	0.10	12.95	11.49	9.95
1919191	♦	121E18711	Tubular-pull	24	44	12.8	1.00	1.00	2.3 x 1.0	0.430	0.40	9.95	8.95	7.95
215141	JRP	SMT-2251L24AA	Tubular-pull	24	60	10.0	4.00	1.00	3.0 x 1.0	0.440	0.40	13.95	12.55	11.29
149754	JRP	SMT-1325S12AA	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	0.05	19.95	17.95	15.95
149762	JRP	SMT-1632S12AA	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	16.95	15.25	13.75
262175	JRP	SMT-2551S24STD	Tubular-push	24	57.6	10.0	1.43	0.71	2.0 x 1.0	0.118	0.38	14.95	13.49	11.95
262191	JRP	SMT-3257S24STD	Tubular-push	24	44	13.0	6.80	0.70	2.3 x 1.3	0.160	0.65	23.95	21.49	18.95
262211	JRP	SMT-3864S24STD	Tubular-push	24	34	17.0	1.32	1.18	2.52 x 1.50	0.157	1.0	21.95	19.95	17.95
1919203	LEX	191172-001	Stroke-push	12	45	7.3	—	0.125	1.0 x 0.5	0.060	0.1	2.95	2.49	1.95

† Open frame type dimensions: L" x W" x H"

\* Dual shaft

Blue Part No. = Limited Quantity Available

\* JRP = Jameco ReliaPro | LEX = Lexed | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



Call for additional OEM PRICING – we carry major manufacturers.

## DC Brushless Tubeaxial Fans & Blowers



\*5V Web Code: TAS

\*12V Web Code: LBZ

mm to Inches Conversion Chart

1809936

1951490

695050

1581249

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)			Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
				1	10	50								1	10	50	100
2095285	Adda	AD1505LX-K90	5	15 x 15 x 6	0.1	Hypro	50	0.25	CE	9.6	5.5"	\$10.95	\$9.95	\$8.95	\$7.95		
2099809	Sunon	KDE0501PDB3-8	5	20 x 20 x 8	1.2	Ball	80	0.4	UL/CUL	21	5.5"	8.95	7.95	6.95	6.25		
2095277	Adda	AD2005LX-G70	5	20 x 20 x 10	0.6	Hypro	80	0.4	UL/CUL/CSA/TUV/CE	20	5.5"	8.95	7.95	6.95	6.25		
131247	Adda	AD2025LX-G50	5	25 x 25 x 10	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	14.95	13.49	11.95	10.95		
695050	Sunon	GM0502PFV2-8	5	25 x 25 x 10	3.0	Vapo	80	0.4	UL/CUL	16	5.5"	12.95	11.49	9.95	8.95		
1708481	Sunon	KDE0502PHB3-8 (MS)	5	25 x 25 x 15	1.8	Ball	80	0.4	UL/CUL	16	4"	10.95	9.95	8.95	7.95		
1928311	Adda	AD0305LB-K70	5	30 x 30 x 6.8	2.5	Ball	60	0.3	UL/CUL/TUV/CE	30	6"	6.95	6.25	5.59	4.95		
2099497	Adda	AD0305MX-K70	5	30 x 30 x 6.8	3.3	Hypro	120	0.6	UL/CSA/TUV/CE	27.9	5.5"	8.95	7.95	6.95	6.25		
1951211	Sunon	KDE0503PEV1-8 (MSN)	5	30 x 30 x 6.8	4.9	Vapo	180	0.9	UL/TUV/CE	28	6"	7.95	6.95	6.25	5.59		
1951220	Sunon	KDE0503PEB3-8 (MSN)	5	30 x 30 x 6.8	4.9	Ball	180	0.9	UL/TUV/CE	28	6"	9.95	8.95	7.95	6.95		
2099489	Adda	AD0305HX-G50	5	30 x 30 x 10	4.2	Hypro	170	0.85	UL/CUL/TUV/CE	30.7	5.5"	10.95	9.95	8.95	7.95		
1950534	Sunon	KDE0503PFB1-8V	5	30 x 30 x 10	5.1	Ball	180	0.7	UL/TUV	22.5	5"	11.95	10.95	9.95	8.95		
<b>2120031</b>	Sunon	GM0503PEV1-8N.GN	5	30 x 30 x 10	5.5	Vapo	140	0.7	UL/CSA/TUV	23	6"	11.95	10.95	9.95	8.95		
2095293	Adda	AD305HB-D50	5	30 x 30 x 15	3.7	Ball	130	0.65	UL/CUL/TUV/CE	22.5	11"	10.95	9.95	8.95	7.95		
1708457	Sunon	KDE0504PEB3-8 (MS)	5	40 x 40 x 6.8	3.5	Ball	90	0.45	UL/CUL/TUV	20	6"	8.95	7.95	6.95	5.95		
1928361	Adda	AD0405MB-K90 (S)	5	40 x 40 x 6.8	5.5	Ball	90	0.45	UL/TUV/CE	25	6"	10.95	9.95	8.95	7.95		
1928353	Adda	AD0405HB-K90	5	40 x 40 x 6.8	6.0	Ball	120	0.6	UL/CUL/TUV/CE	30	5"	11.95	10.95	9.95	8.95		
1581249	Sunon	KDE0504PFB3-8	5	40 x 40 x 10	4.6	Ball	70	0.35	UL/CUL	23.5	12"	6.95	6.25	5.59	4.95		
196373	Sunon	KD0504PFB2-8	5	40 x 40 x 10	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	7.95	6.95	5.95		
<b>2121295</b>	Adda	AD0405MB-G76	5	40 x 40 x 10	5.7	Ball	110	0.40	UL/CSA/TUV/CE	20	11" <sup>1</sup>	8.95	7.95	6.95	5.95		
1928370	Adda	AD0405HS-G70	5	40 x 40 x 10	6.7	Sleeve	190	0.95	UL/CUL/TUV/CE	25	3" w/conn	6.95	6.25	5.59	4.95		
1581265	Sunon	KDE0504PFS1-8	5	40 x 40 x 10	7.0	Sleeve	110	0.6	UL/CUL	27	12"	6.95	6.25	5.59	4.95		
1951238	Sunon	KDE0504PFB1-OC	5	40 x 40 x 10	7.5	Ball	200	1.0	UL/CE	28	12"	7.95	6.95	6.25	5.59		
1952741	Elina	KDC050420MB	5	40 x 40 x 20	6.8	Ball/Sleeve	210	1.0	UL/CUL/TUV	25.5	12"	7.95	6.95	6.25	5.59		
<b>2120057</b>	Sunon	KD0504PKB2(2).GN	5	40 x 40 x 20	7.7	Dual ball	142	0.7	UL/CSA/TUV	22	12"	7.95	6.95	6.25	5.59		
1951406	Delta	AFB0405HD-R00	5	40 x 40 x 20	8.5	Ball	400	2.0	UL/CUL/TUV/CE	33	12" <sup>1</sup>	8.95	7.95	6.95	5.95		
2095251	Adda	AD4505MX-K90	5	45 x 45 x 6	7.1	Hypro	120	0.6	CE	25.5	5.5"	8.95	7.95	6.95	6.25		
1951060	Mechatronics	M5010M05C	5	51 x 51 x 10	6.4	Ball/Sleeve	60	0.3	UL/CUL/CE	24	12"	6.95	6.25	5.59	4.95		
136494	Delta	AFB0505LA	5	51 x 51 x 10	7.4	Ball/Sleeve	80	0.4	UL/CE/CSA/VDE	26	11"	7.95	6.95	6.25	5.59		
1950500	Sunon	KDE0505PFB1-8	5	51 x 51 x 10	10.2	Ball	170	0.9	UL/TUV	31.5	12"	8.95	7.95	6.95	6.25		
136275	Delta	BFB0505L†	5	51 x 51 x 15	2.5	Ball	140	0.7	UL/CE/CSA/VDE	26.5	12"	9.95	8.95	7.95	6.95		
136283	Elina	KDC050515MB	5	51 x 51 x 15	12.7	Ball/Sleeve	380	4.0	UL/CE/CUL/TUV	28	11"	8.95	7.95	6.95	6.25		
1809936	Sunon	KD0505PHB2 (GN)	5	51 x 51 x 15	12.7	Ball	180	0.8	UL/CUL/TUV/CE	27.8	12"	9.95	8.95	7.95	6.95		
1809944	Sunon	KDE0506PHB3	5	60 x 60 x 15	15.2	Ball	240	1.2	UL/CUL/TUV/CE	26.5	12"	8.95	7.95	6.95	6.25		
2081756	Adda	AD0605HB-D71GL	5	60 x 60 x 15	16.6	Ball	370	1.8	UL/CUL/CE	32	6"	7.95	6.95	6.25	5.59		
1708431	Sunon	KD0506PHB2	5	60 x 60 x 15	18.5	Ball	380	1.9	UL/CUL/TUV/CE	32	12"	9.95	8.95	7.95	6.95		
1951414	Delta	AFB0605HD	5	60 x 60 x 20	16.6	Ball	240	1.2	UL/CUL/TUV/CE	28	12"	8.95	7.95	6.95	6.25		
355493	Sunon	KD0506PTS3	5	60 x 60 x 25	15.9	Sleeve	230	1.2	UL/CUL/CE	26.7	6.5" w/conn	6.95	6.25	5.59	4.95		
134869	Delta	AFB0605M	5	60 x 60 x 25	16.2	Ball	220	1.1	UL/CE/CSA/TUV	24.5	12"	7.95	6.95	6.25	5.59		
1951078	Mechatronics	F6025E05B2-FS	5	60 x 60 x 25	24	Ball	700	3.5	UL/CUL	36	12" <sup>2</sup>	8.95	7.95	6.95	6.25		
1951086	Mechatronics	F8025E05B2-FS	5	80 x 80 x 25	46	Ball	800	4.0	UL/CUL	32	12" <sup>2</sup>	9.95	8.95	7.95	6.95		
1951094	Mechatronics	E9225M05B2-FS	5	92 x 92 x 25	44	Ball	560	2.8	UL/CUL	32	12" <sup>2</sup>	8.95	7.95	6.95	6.25		
1951107	Mechatronics	F1238L05B2-FS	5	120 x 120 x 38	94	Ball	800	4.0	UL/CUL	36	12" <sup>2</sup>	10.95	9.95	8.95	7.95		
2095269	Adda	AD2012LX-K70	12	20 x 20 x 6	0.6	Hypro	60	0.72	CE	19.5	5.5"	8.95	7.95	6.95	6.25		
<b>2100363</b>	Adda	AD2012LX-K50-LF	12	25 x 25 x 6	1.8	Hypro	60	0.3	UL/CUL/TUV/CE	20.5	5.5"	9.95	8.95	7.95	6.95		
2095306	Adda	AD0212MB-K50 (S)	12	25 x 25 x 6	2.4	Ball/Sleeve	90	1.08	UL/CUL/TUV/CE	26	5.5"	11.95	10.95	9.95	8.95		
1951641	Adda	AD0212LB-G50 (GL)	12	25 x 25 x 10	1.8	Ball	70	0.84	UL/CUL/CE	15.6	5.5"	10.95	9.95	8.95	7.95		
<b>2121316</b>	Adda	AD0212MX-G50GL	12	25 x 25 x 10	2.3	Hypo	80	0.4	UL/CUL/TUV/CE	23.1	5.5"	10.95	9.95	8.95	7.95		
1708449	Sunon	KDE1202PFB1-8 (V)	12	25 x 25 x 10	3.1	Ball	83	1.0	UL/CUL	33	6"	10.95	9.95	8.95	7.95		
212767	Sunon	KDE1203PFB3-8 (V)	12	30 x 30 x 10	3.2	Ball	50	0.6	UL/CE	18.5	6"	8.95	7.95	6.95	6.25		
1708465	Sunon	KDE1203PFB2-8 (MS)	12	30 x 30 x 10	4.2	Ball	66	0.8	UL/CUL	25	6"	8.95	7.95	6.95	6.25		
212784	Sunon	KDE1203PFB1-8V	12	30 x 30 x 10	5.1	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	4"	9.95	8.95	7.95	6.95		
212783	Sunon	KDE1203PFB1-8	12	30 x 30 x 10	5.1	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	5.9"	10.95	9.95	8.95	7.95		
1928134	Adda	AD0312HB-D50	12	30 x 30 x 15	4.2	Ball	110	1.3	UL/CUL/TUV/CE	22.5	3" w/conn	6.95	6.25	5.59	4.95		
212741	Sunon	KDE1235PFB2-8	12	36 x 36 x 10	4.5	Ball	60	0.8	UL/CUL/TUV/CE/VDE	21	5.9"	9.95	8.95	7.95	6.95		
212760	Sunon	GM1235PFV1-8	12	36 x 36 x 10	7.0	Vapo	80	1.0	UL/CUL/TUV/CE	28	6"	14.95	13.49	11.95	10.95		
1951490	Adda	AD0412HB-K90	12	40 x 40 x 6.8	6.0	Ball/Sleeve	80	1.0	UL/CUL/TUV/CE	30	5.5"	8.95	7.95	7.19	6.49		
2099500	Adda	AD0412HB-K96	12	40 x 40 x 6.8	6.0	Ball	80	0.72	UL/CUL/TUV/CE	30	5.5" <sup>1</sup>	8.95	7.95	6.95	6.25		
2100113	Delta	AFB0405LD	12	40 x 40 x 10	3.9	Ball	60	0.3	UL/CSA/VDE/CE	25	13" <sup>2</sup>	5.95	5.35	4.79	4.29		

<sup>1</sup> 3 leads: speed sensor    <sup>2</sup> 3 leads: locked rotor protection (These functions are optional, if needed)

† Blower

Fans continued on next page

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# DC Brushless Tubeaxial Fans & Blowers



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## DC Brushless Tubeaxial Fans & Blowers (Continued)



\* 12V Web Code: LBZ

1585291

1950446

mm to Inches Conversion Chart

125006

114682

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
1950526	Sunon	KD1204PFS3H	12	40 x 40 x 10	4.2	Sleeve	60	0.7	UL/CUL/TUV/CE	22	12"	\$5.95	\$5.35	\$4.79	\$4.29
2095314	Adda	AD0412LX-G70	12	40 x 40 x 10	4.7	Hypo	70	0.84	UL/CUL/TUV/CE	14	12"	6.95	6.25	5.59	4.95
210797	Sunon	KD1204PVF3	12	40 x 40 x 10	4.9	Vapo	60	0.6	UL/CUL/TUV/CE	24	12"	6.95	6.25	5.59	4.95
279611	Toyo	T401012VH	12	40 x 40 x 10	5.8	Ball	90	1.1	UL/CUL/TUV/CE	33.5	12"	4.95	4.49	3.95	3.59
1585469	Y.S. Tech	FD1240107B-2N	12	40 x 40 x 10	6.6	Ball	90	1.08	UL/CUL/TUV	29	6"	5.95	4.95	4.49	3.95
1928054	Adda	AD0412HB-G70	12	40 x 40 x 10	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	2.5" w/conn	5.95	5.35	4.79	4.29
2100380	Adda	AD0412HX-G71-LF	12	40 x 40 x 10	6.7	Hypo	100	1.2	UL/CUL/TUV/CE	25	10" <sup>2</sup>	7.95	6.95	6.25	5.59
290010	Adda	AD0412HB-G70	12	40 x 40 x 10	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	10" w/conn	9.95	8.95	7.95	6.95
212717	Sunon	KDE1204PFS2.11.MS.A.GN	12	40 x 40 x 10	7.0	Vapo	80	1.0	UL/CUL/TUV/CE/VDE	27	12"	6.95	6.25	5.59	4.95
1950139	Sunon	KDE1204PFS2-11	12	40 x 40 x 10	7.0	Sleeve	92	1.1	UL/CUL/TUV/CE	27	12"	6.95	6.25	5.59	4.95
2081924	Sunon	KDE1204PFB2	12	40 x 40 x 10	7.5	Ball	90	1.1	UL/CUL/TUV/CE	30	12"	8.95	7.95	6.95	5.95
189691	Sunon	KD1204PFS1-11.GN	12	40 x 40 x 10	8.0	Sleeve	60	0.7	UL/CUL/TUV/CE	30	12"	7.95	7.19	6.49	5.79
212725	Sunon	KDE1204PVF1	12	40 x 40 x 10	8.3	Vapo	110	1.4	UL/CUL/TUV/CE/VDE	34.4	12"	6.95	6.25	5.59	4.95
1708473	Sunon	KDE1204PVFX11.MS.A	12	40 x 40 x 10	9.5	Vapo	150	1.8	UL/CUL/TUV	39	12"	6.95	6.25	5.59	4.95
136178	Adda	AD0412MS-C70	12	40 x 40 x 20	5.0	Sleeve	110	1.32	UL/CSA	23	9"	5.95	5.39	4.79	4.29
1809856	Sunon	GM1204PKV3-A	12	40 x 40 x 20	6.3	Vapo	50	0.6	UL/CSA/TUV	18	12"	6.95	6.25	5.59	4.95
195899	Sunon	KDE1204PKS2	12	40 x 40 x 20	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	5.95	5.39	4.79	4.29
279620	Toyo	T402012H	12	40 x 40 x 20	6.7	Ball	70	0.84	UL/CUL/TUV/CE	26.2	12"	6.95	6.25	5.59	4.95
2120065	Sunon	KD1204PKB2(2)GN	12	40 x 40 x 20	7.7	Dual ball	62	0.7	UL/CSA/TUV	22	12"	6.95	6.25	5.59	4.95
687754	Sunon	KDE1204PKS2-X	12	40 x 40 x 20	9.5	Sleeve	90	1.1	UL/CSA	28	11"	6.95	6.25	5.59	4.95
2099518	Adda	AD0412UB-C51	12	40 x 40 x 20	9.9	Ball	180	2.16	UL/CUL/TUV/CE	36.1	11"	7.95	6.95	6.25	5.59
2082100	Sunon	KDE1204PKB2-X	12	40 x 40 x 20	10	Ball	90	1.1	UL/TUV/CE	29.4	4"	7.95	6.95	6.25	5.59
2099841	Delta	EFB0412VHD-R00	12	40 x 40 x 20	10.1	Dual ball	120	1.4	UL/CSA/DE/CE	32.5	12" <sup>2</sup>	9.95	8.95	7.95	6.95
1928118	Adda	AD4012HB-C50	12	40 x 40 x 20	10.5	Ball	100	1.2	UL/CUL/TUV/CE	31.9	12"	9.95	8.95	7.95	6.95
1585291	Sunon	GM1204PKV-A	12	40 x 40 x 20	10.8	Vapo	130	1.6	UL/CUL/CSA	27.5	5"	6.95	6.25	5.59	4.95
2082089	Sanyo Denki	109P0412H302	12	40 x 40 x 28	11.3	Ball	195	2.3	UL/CSA/TUV	37	3.75"	6.95	6.25	5.59	4.95
2095162	Sunon	PMD1204PQBX-A(2)F	12	40 x 40 x 28	23.5	Ball	570	6.8	UL/CE	51.5	3" w/conn <sup>1</sup>	12.95	11.49	9.95	8.95
1951246	Sunon	PMD1204PQBX-A(2)	12	40 x 40 x 28	23.5	Ball	570	6.8	UL/CE	51.5	12"	14.95	13.49	11.95	10.95
1951254	Sunon	PMD1204PQBX-A(2)F	12	40 x 40 x 28	23.5	Ball	570	6.8	UL/CE	51.5	12" <sup>1</sup>	14.95	13.49	11.95	10.95
1950753	Comair Rotron	CR4512MB-G70	12	45 x 45 x 10	6.9	Ball	70	0.8	UL/CUL/CE/TUV	21.6	12"	6.95	6.25	5.59	4.95
2095322	Adda	AD4512HX-G70	12	45 x 45 x 10	9.1	Hypo	90	1.08	UL/CUL/TUV/CE	27.4	11"	7.95	6.95	6.25	5.59
2100371	Adda	AD0512LX-G70LF	12	51 x 51 x 10	9.0	Hypo	60	0.72	UL/CSA/TUV/CE	20	11"	5.95	5.35	4.79	4.29
1918809	Jamicon	KF0510B1M	12	51 x 51 x 10	9.27	Ball	80	0.8	UL/CUL/TUV/CE	26.6	10.5"	5.95	5.35	4.79	4.29
2095331	Adda	AD0512HX-G70	12	51 x 51 x 10	10.5	Hypo	120	1.4	UL/CUL/TUV/CE	24	11"	5.95	5.35	4.79	4.29
2095349	Adda	AD0512MB-G76	12	51 x 51 x 10	10.5	Ball	120	1.4	UL/CUL/TUV/CE	24	11" <sup>1</sup>	7.95	6.95	6.25	5.59
1950446	Sunon	KD1205PFB1(2)H	12	51 x 51 x 10	11.4	Ball	130	1.6	UL/TUV	34.7	12"	7.95	6.95	6.25	5.59
2100419	Adda	AD0512HB-G70-LF	12	51 x 51 x 10	11.8	Ball	90	1.08	UL/CSA/TUV/CE	27	11"	8.95	7.95	6.95	6.25
125006	Nidec	A33999-16 <sup>+</sup>	12	51 x 51 x 15	4.0	Ball	170	2.04	UL/CE	46	11"	8.95	7.95	6.95	6.25
139601	Adda	AD0512HS-D71	12	51 x 51 x 15	12	Sleeve	100	1.2	UL/CSA/CE	29	5"	6.95	6.25	5.59	4.95
2099534	Adda	AD5012MX-D71	12	51 x 51 x 15	12.6	Hypo	100	1.2	UL/CUL/TUV/CE	29	5.5"	7.95	6.95	6.25	5.59
1809813	Sunon	GM1205PHV1-AR	12	51 x 51 x 15	17	Vapo	130	1.5	UL/CUL/TUV/CE	33	12" <sup>2</sup>	7.95	6.95	6.25	5.59
2095357	Adda	AD0612HB-G70	12	60 x 60 x 10	14.5	Ball	150	1.8	UL/CUL/TUV/CE	32	11"	9.95	8.95	7.95	6.95
1946025	Evercool	EC6010M12CA	12	60 x 60 x 10	15.5	Ball	160	1.9	UL/CE/TUV	30	9" <sup>1</sup>	8.95	7.95	6.95	6.25
2115522	Everflow	R126010DU	12	60 x 60 x 10	19.41	Ball	250	3	UL/CE/TUV	37	9" w/ conn <sup>1</sup>	8.95	7.95	6.95	6.25
1928046	Adda	AD0612LX-D70GL	12	60 x 60 x 15	12	Hypo	90	1.08	UL/CUL/TUV/CE	27.2	8"	5.95	5.59	4.95	4.49
2078178	Delta	AFB0612MB	12	60 x 60 x 15	13.4	Ball	80	0.96	UL/CUL/TUV/CE	29	12"	7.95	6.95	6.25	5.59
195945	Adda	AD612MS-D71GL	12	60 x 60 x 15	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	8.95	7.95	6.95	6.25
249069	Jamicon	JF0615B1H-000-243	12	60 x 60 x 15	15.7	Ball	170	2.04	UL/CUL/TUV/CE	34	12"	9.95	8.95	7.95	6.95
2121308	Adda	AD0612HB-D70GL	12	60 x 60 x 15	16.6	Ball	130	1.56	UL/CSA/TUV/CE	32.4	11" w/ conn	9.95	8.95	7.95	6.95
687771	Sunon	KDE1206PHS1	12	60 x 60 x 15	21	Sleeve	150	1.8	UL/CSA/TUV/CE	36	11"	8.95	7.95	6.95	6.25
1585400	Sunon	KDE1206PHB1	12	60 x 60 x 15	21	Ball	150	1.8	UL/CSA/CE	37.5	11"	10.95	9.95	8.95	7.95
144161	Adda	AD0612LB-C70GL	12	60 x 60 x 20	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	9.95	8.95	7.95	6.95
1928126	Adda	AD0612HB-C70GL	12	60 x 60 x 20	16.3	Ball	160	1.92	UL/CSA/TUV/CE	31	12"	9.95	8.95	7.95	6.95
189595	Sunon	KD1206PKS2	12	60 x 60 x 20	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	7.95	6.95	6.25	5.59
119635	Delta/Fonsan	DFD0612H	12	60 x 60 x 20	17.7	Ball	110	1.3	UL/CE/CSA/VDE	30	12"	6.95	6.25	5.59	4.95
1951182	Sunon	KDE1206PKV2 MS.A.GN	12	60 x 60 x 20	18.5	Vapo	90	0.8	UL/CE	27.5	11"	7.95	6.95	6.25	5.59
2120073	Sunon	KD1206PKB2(2)F.GN	12	60 x 60 x 20	19	Dual ball	88	1.1	UL/CUL/TUV	29	12" <sup>1</sup>	7.95	6.95	6.25	5.59
114682	Delta	AFB0612VHD	12	60 x 60 x 20	30	Ball	270	2.4	UL/CE/CSA/VDE	39.5	12"	8.95	7.95	6.95	6.25
2120081	Sunon	KDE1206PTV3.13.MS.A.GN	12	60 x 60 x 25	16	Vapo	110	0.7	UL/CSA/TUV	21	12" <sup>1</sup>	7.95	6.95	6.25	5.59
1810101	Japan Servo	TUDC12Z4F-022	12	60 x 60 x 25	19	Ball	140	1.8	UL/CSA/TUV	32	5" w/ conn	5.95	5.39	4.79	4.29
2095197	Delta	DFB0612H	12	60 x 60 x 25	19.4	Ball	120	1.4	UL/CE/CSA/VDE	30	12"	7.95	6.95	6.25	5.59

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## DC Brushless Tubeaxial Fans & Blowers (Continued)



\* 12V Web Code: LBZ



Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
102947	Jamicon	JF0625S1H	12	60 x 60 x 25	20.5	Sleeve	230	2.7	UL/CUL/TUV	33.6	12"	\$7.95	\$6.95	\$6.25	\$5.59
150422	Jamicon	JF0625B1H	12	60 x 60 x 25	21.4	Ball	230	2.7	UL/CSA/TUV	30.5	10"	8.95	7.95	6.95	6.25
195911	Sunon	KD1206PTS1AGN	12	60 x 60 x 25	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	9.95	8.95	7.95	6.95
689240	Sunon	KDE1206PTB1	12	60 x 60 x 25	22.5	Ball	190	2.2	UL/CUL/TUV/CE	34	11" w/ conn <sup>1</sup>	8.95	7.95	6.95	6.25
114674	Delta	AFB0612HH-R00	12	60 x 60 x 25	23	Ball	180	2.16	UL/CE/CSA/VDE	33	12" <sup>2</sup>	7.95	6.95	6.25	5.59
1951043	Mechatronics	6025E12B3-FS	12	60 x 60 x 25	24	Ball	230	3.5	UL/CUL	36	12" <sup>3</sup>	7.95	6.95	6.25	5.59
2099526	Adda	AD0612XB-A74GL	12	60 x 60 x 25	31.4	Ball	380	4.56	UL/CSA/TUV/CE	42.9	12" <sup>1</sup>	9.95	8.95	7.95	6.95
2081288	Sunon	PDM1206PMB1-A(2).F12	12	60 x 60 x 38	56.5	Dual Ball	880	10.6	UL/CUL/TUV/CE	56	12" <sup>1</sup>	12.95	11.49	9.95	8.95
123941	Nidec	D07R-12TL018	12	70 x 70 x 15	19.8	Ball	80	0.96	UL/CSA	27	23" <sup>2</sup>	12.95	11.49	9.95	8.95
644842	Evercool	EC7530M12S-B <sup>†</sup>	12	76 x 72 x 30	10.8	Sleeve	170	2.0	UL/CE/TUV	30	8" w/ conn	9.95	8.95	7.95	6.95
2099446	Adda	AD7512LB (2A) <sup>†</sup>	12	76 x 76 x 30	6.9	Ball	110	1.32	UL/CUL/TUV/CE	29	15" w/conn <sup>2</sup>	9.95	8.95	7.95	6.95
132951	Shichoh	A0815-12HV	12	80 x 80 x 15	18.4	Ball/Sleeve	200	2.4	—	32	12" <sup>1</sup>	6.95	6.25	5.59	4.95
2099462	Adda	AD0812LB-D70	12	80 x 80 x 15	20	Ball	120	1.44	UL/CSA/TUV/CE	19.6	6" w/conn	6.95	6.25	5.59	4.95
401269	Delta	AFB0812LB	12	80 x 80 x 15	24.7	Ball	140	1.68	UL/CSA/TUV	27.5	10"	8.95	7.95	6.95	6.25
1950163	Sunon	KD1208PHB3H	12	80 x 80 x 15	25.5	Ball	120	1.4	CE	28	12"	8.95	7.95	6.95	6.25
109082	Adda	AD0812HS-D71	12	80 x 80 x 15	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	9.95	8.95	7.95	6.95
1708570	Sunon	KD1208PHB1-AH	12	80 x 80 x 15	35	Ball	240	2.9	UL/CUL/TUV/CE	39.5	12"	10.95	9.95	8.95	7.95
2095365	Adda	AD0812XX-D71	12	80 x 80 x 15	39.4	Hypro	350	4.2	UL/CSA/TUV/CE	42	11"	10.95	9.95	8.95	7.95
141921	Adda	AD0812HB-C70	12	80 x 80 x 20	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	10.95	9.95	8.95	7.95
2081748	Sunon	KDE1208PKV1.13.MSA	12	80 x 80 x 20	36	Vapo	130	1.6	UL/CUL/TUV/CE	38	12"	10.95	9.95	8.95	7.95
688597	NMB	3110GL-B4W-B19	12	80 x 80 x 25	24.7	Ball	100	1.2	UL/CSA/TUV/CE	22	7" w/ conn <sup>1</sup>	5.95	5.35	4.79	4.29
154289	Sunon	KDE1208PTS3-6	12	80 x 80 x 25	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	12"	6.95	6.25	5.59	4.95
1952759	Max Flow	MF8025D1-LSPS	12	80 x 80 x 25	31.1	Sleeve	130	1.56	UL	29	7" w/ conn.	5.95	5.39	4.79	4.29
123530	Adda	AD0812MS-A70GL	12	80 x 80 x 25	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	7.95	6.95	6.25	5.59
1955010	NMB	3110KL-04W-B40	12	80 x 80 x 25	35.3	Ball	200	2.40	UL/CSA/TUV/CE	31	13"	6.95	6.25	5.59	4.95
1950147	Sunon	KD1208PTB2(2)HM	12	80 x 80 x 25	36	Ball	160	2.1	UL/CE/TUV	29	11" <sup>1</sup>	7.95	6.95	6.25	5.59
1810030	Sanyo Denki	109R0812H4011	12	80 x 80 x 25	36.4	Ball	130	1.56	UL/CSA/TUV	29	12" <sup>1</sup>	6.95	6.25	5.59	4.95
1537387	Sunon	KD1208PTB21.(2).GN	12	80 x 80 x 25	37	Ball	110	1.3	UL/CUL/TUV/CE	32	11.5" w/ conn.	9.95	8.95	7.95	6.95
1928038	Adda	AD0812HS-A70GL	12	80 x 80 x 25	38.6	Sleeve	250	3.0	UL/CSA/TUV/CE	34.4	12"	5.95	5.35	4.79	4.29
1928100	Adda	AD0812HX-A70GL	12	80 x 80 x 25	38.6	Hydro wave	250	3.0	UL/CSA/TUV/CE	34	12"	5.95	5.35	4.79	4.29
2078194	Adda	AD0812HS-A73	12	80 x 80 x 25	38.6	Sleeve	250	3.0	UL/CUL/TUV	34.3	12" <sup>1</sup>	6.95	6.25	5.59	4.95
662661	NMB-MAT	FBA08A12H1BS	12	80 x 80 x 25	39.6	Hydro wave	173	2.1	UL/CSA/TUV	32	12" <sup>2</sup>	6.95	6.25	5.59	4.95
1585477	Sunon	KD1208PTS1-13	12	80 x 80 x 25	40	Sleeve	160	1.90	UL/CUL/TUV/CE	33	12"	5.95	5.35	4.79	4.49
1950569	Sunon	KD1208PTS1.HM	12	80 x 80 x 25	40	Sleeve	160	2.6	UL/CE	33	12" <sup>1</sup>	5.95	5.35	4.79	4.39
1708490	Sunon	KDE1208PTB1-13.MS(2A)	12	80 x 80 x 25	41	Dual Ball	150	1.8	UL/CUL/TUV/CE	35	12"	7.95	6.95	6.25	5.59
206181	Sunon	KDE1208PTS1-6	12	80 x 80 x 25	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	7.95	6.95	6.25	5.59
355401	ReliaPro	RDH80025B1	12	80 x 80 x 25	42	Ball	230	2.8	UL/CUL/TUV/CE	28.6	12"	8.95	7.95	6.95	6.25
2081271	Sunon	KDE1208PTB1-6(OCM)	12	80 x 80 x 25	42.5	Ball	220	2.6	UL/CUL/TUV/CE	36.5	12" <sup>1</sup>	6.95	6.25	5.59	4.95
249148	Sunon	KDE1208PTB1-6(OC)	12	80 x 80 x 25	42.5	Ball	220	2.6	UL/CUL/TUV/CE	36.5	12"	7.95	6.95	6.25	5.59
2102225	Y.S. Tech	FD128025HS	12	80 x 80 x 25	43.7	Sleeve	230	2.76	UL/CSA/TUV	33.5	13"	6.95	6.25	5.59	4.95
2100401	Adda	AD0812UB-A72GL	12	80 x 80 x 25	43.8	Ball	300	3.6	UL/CUL/TUV/CE	40	11" <sup>2</sup>	8.95	7.95	6.95	6.25
1918729	Jamicon	JF0825S1SR	12	80 x 80 x 25	45.5	Sleeve	260	3.12	UL/CUL/TUV/CE	35.8	12" w/ conn.	7.95	6.95	6.25	5.59
421526	Panasonic	FBA08A12U-1AZ	12	80 x 80 x 25	47	Sleeve	360	4.32	UL/CSA	38.2	11"	7.95	6.95	6.25	5.59
1809955	Sunon	KDE1208PTBX-6A(318)	12	80 x 80 x 25	50.6	Ball	360	4.3	UL/CUL/TUV/CE	40.5	12"	13.95	12.49	10.95	9.95
2081078	Jamicon	JF0825B1UR	12	80 x 80 x 25	52	Dual Ball	370	4.4	UL/CUL/TUV/CE	40	12"	11.95	10.95	9.95	8.95
2081692	Y.S. Tech	NFD128125BB-2F	12	80 x 80 x 25	59.2	Dual Ball	450	5.4	UL/CUL/TUV	44	20" w/ conn. <sup>1</sup>	12.95	11.49	10.49	9.49
695682	Comair Rotron	030615/ST12B3	12	80 x 80 x 32	34	Ball	280	3.4	UL/CUL/TUV/CE	40.9	12"	19.95	17.95	16.25	14.49
107406	EBM Papst	8312GHL	12	80 x 80 x 32	39.4	Sleeve	330	4.0	UL/CE/CSA/VDE	43	12"	14.95	13.49	11.95	10.95
1951166	Nidec	TA350DC-M33416-16	12	92 x 92 x 25	28	Ball	110	1.32	UL/CSA	19.5	11"	7.95	6.95	6.25	5.59
1928089	Adda	AD0912LS-A70GL	12	92 x 92 x 25	32.4	Sleeve	130	1.6	UL/CUL/TUV/CE	23.5	12"	6.95	6.25	5.59	4.95
1952783	Nidec	TA350DC-M34138-34	12	92 x 92 x 25	35	Ball	160	1.92	UL/CSA	26.4	10" w/ conn. <sup>5</sup>	6.95	6.25	5.59	4.95
1952257	AVC	C9025S12L	12	92 x 92 x 25	37.2	Sleeve	150	1.8	UL/CUL/TUV/CE	26.2	5.5" <sup>1</sup>	7.95	6.95	6.25	5.59
1928097	Adda	AD0912LX-A70GL	12	92 x 92 x 25	37.9	Hypro	120	1.44	UL/CUL/TUV/CE	26.5	12"	9.95	8.95	7.95	6.95
1928003	Adda	AD0912MB-A71GL	12	92 x 92 x 25	44.2	Ball	170	2.0	UL/CUL/TUV/CE	32.7	12"	9.95	8.95	7.95	6.95
1952880	Nidec	TA350DC-M33422-57G4	12	92 x 92 x 25	48	Ball	290	3.48	UL/CSA	35	10" w/ conn. <sup>4</sup>	8.95	7.95	6.95	6.25
154641	Nidec	TA350DC-M33422-16	12	92 x 92 x 25	48	Ball	290	3.5	UL/CSA	43	12"	9.95	8.95	7.95	6.95
1952935	Sunon	KD1209PTB2-6	12	92 x 92 x 25	48	Dual Ball	500	2.1	UL/CSA/TUV/CE	32	25" w/ conn. <sup>4</sup>	10.95	9.95	8.95	7.95
2115565	Sunon	KD1209PTS1.13.GN	12	92 x 92 x 25	49	Sleeve	160	1.9	UL/CUL/TUV/CE	34	11"	10.95	9.95	8.95	7.95
190984	Sunon	KD1209PTB1-6A	12	92 x 92 x 25	51	Ball	220	2.6	UL/CSA/TUV	34	12"	10.95	9.95	8.95	7.95
207061	AVC	C9025S12H	12	92 x 92 x 25	52	Sleeve	160	3.8	UL/CUL/TUV/CE	34	6" w/ conn. <sup>1</sup>	7.95	6.95	5.95	4.95
1952767	NMB	3610KL-04W-B56PS9	12	92 x 92 x 25	54.7	Ball	315	3.8	UL/CSA/TUV/CE	41	7" w/ conn. <sup>6</sup>	7.95	6.95	5.95	4.95

<sup>1</sup> 3 leads; speed sensor <sup>2</sup> 3 leads; locked rotor protection <sup>3</sup> Thermistor speed control <sup>4</sup> Temperature sensor <sup>5</sup> 4 leads; wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard <sup>6</sup> 5 leads; locked rotor with 2 separate ground if needed (These functions are optional, if needed) <sup>†</sup> Blower <sup>‡</sup> Blue Part No. = Limited Quantity Available

Fans continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

# DC Brushless Tubeaxial Fans & Blowers

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## DC Brushless Tubeaxial Fans & Blowers (Continued)

**\*12V Web Code: LBZ**



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1537467

1951051

### mm to Inches Conversion Chart

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
1952951	NMB	3610KL-04W-B56PS6	12	92 x 92 x 25	55	Ball	315	3.8	UL/CSA/TUV/CE	41	9" w/ conn. <sup>2</sup>	\$7.95	\$6.95	\$5.95	\$4.95
102963	Nidec	TA350DC-M33503-55	12	92 x 92 x 25	56	Ball	400	4.8	UL/CSA	45	8"	7.95	6.95	5.95	4.95
1776281	Delta	AFB0912HH	12	92 x 92 x 25	57.9	Ball	250	3.0	UL/CSA/DE/CE	38	12"	9.95	8.95	7.95	6.95
1951481	Delta/Dell	AFC0912DE-U4218	12	92 x 92 x 38	160	Dual Ball	2500	30	UL/CSA/TUV/CE	63	10" w/ conn. <sup>5</sup>	12.95	11.49	9.95	8.95
644893	Evercool	EC9733M12S-B <sup>†</sup>	12	97 x 92 x 33	19.4	Sleeve	200	2.4	UL/CE/TUV	30	8" w/ conn.	12.95	11.49	9.95	8.95
2081297	Delta	BFB1012H <sup>†</sup>	12	97 x 94 x 33	25.4	Dual Ball	800	9.6	UL/CSA/DE/CE	52	6"	12.95	11.49	9.95	8.95
2081641	Delta	BFB1012H <sup>†</sup>	12	97 x 94 x 33	25.4	Dual Ball	800	9.6	UL/CSA/DE/CE	52	11"	14.95	13.49	11.95	10.95
207062	Sony <sup>®</sup>	SFF22C <sup>†</sup>	12	100 x 104 x 35	21	Ball	900	10.8	UL/CSA	51	15" w/ conn. <sup>1</sup>	11.95	10.95	9.95	8.95
174140	Common Wealth	FP108MS3	12	120 x 120 x 25	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	12.95	11.49	10.49	9.49
689231	Sunon	KDE1212PTS3-6A	12	120 x 120 x 25	67	Sleeve	200	2.4	UL/CUL/TUV/CE	35	12"	10.95	9.95	8.95	7.95
227901	Common Wealth <sup>®</sup>	FP-108M-S1-B	12	120 x 120 x 25	80	Ball	330	4.0	UL/CSA/DE/CE	42	12"	14.95	13.49	11.95	10.95
363848	Mechatronics	E1225H12B	12	120 x 120 x 25	82	Ball	385	4.62	UL/CUL/TUV	40	3.5"	9.95	8.95	7.95	6.95
1928020	Adda	AD1212HB-A71GL	12	120 x 120 x 25	85.2	Ball	370	4.5	UL/CUL/TUV/CE	39.1	12"	12.95	11.49	9.95	8.95
1952231	Turbofan	TA1225E12BS	12	120 x 120 x 25	93	Ball	580	7.0	UL/CSA/TUV	44	13"	10.95	9.95	8.95	7.95
1928011	Adda	AD1212US-A71GL	12	120 x 120 x 25	98.6	Sleeve	500	6.0	UL/CUL/TUV/CE	39.1	2" w/ conn.	6.95	5.95	4.95	3.95
2081705	T&T	1225H12B-PF1	12	120 x 120 x 25	119	Ball	800	9.6	UL/CUL/TUV/CE	47.5	21" w/ conn. <sup>1</sup>	11.95	10.95	9.95	8.95
2082097	Delta	BFB1212VH <sup>†</sup>	12	120 x 120 x 32	40	Ball	1250	15	UL/CSA/DE/CE	57	13"	12.95	11.49	9.95	8.95
2082151	Comair Rotron	MC12B3QDN	12	120 x 120 x 32	102	Ball	660	7.9	UL/CSA/CE	47.8	12" <sup>2</sup>	14.95	13.49	11.95	10.95
868109	Comair Rotron <sup>®</sup>	MC12B7	12	120 x 120 x 32	102	Ball	660	7.9	UL/CUL/TUV/CE	47.9	12"	14.95	13.49	11.95	10.95
1580289	EBM Pabst <sup>®</sup>	4212/2	12	120 x 120 x 38	97.1	Ball	360	4.3	UL/CSA/DE/CE	45	12" <sup>1</sup>	39.95	37.95	35.95	33.95
1585389	Japan Servo	CNDCC12B4C-016	12	120 x 120 x 38	99	Ball	380	4.6	UL/CSA/TUV	40	12"	9.95	8.95	7.95	6.95
94626	Sunon <sup>®</sup>	KD1212PMB1-6A	12	120 x 120 x 38	108	Ball	570	6.8	UL/CUL/TUV/CE	42	12"	12.95	11.49	10.95	9.95
1954703	Mechatronics	F1238H12B2-FS	12	120 x 120 x 38	112	Ball	440	5.3	UL/TUV	41	10" w/ conn. <sup>2</sup>	11.95	10.95	9.95	8.95
1952791	NMB	4715KL-04W-B46	12	120 x 120 x 38	118	Ball	900	8.4	UL/CSA/TUV/CE	47	6" w/ conn. <sup>2</sup>	7.95	6.95	6.25	5.59
1955028	NMB	4715KL-04W-B49	12	120 x 120 x 38	118	Ball	700	8.4	UL/CSA/TUV/CE	46	12" w/ conn. <sup>1</sup>	9.95	8.95	7.95	6.95
2099972	Delta	AFB1212SHE-4F1A	12	120 x 120 x 38	152	Ball	750	9.0	UL/CSA/DE/CE	55.5	48" w/ conn. <sup>7</sup>	9.95	8.95	7.95	6.95
1537467	Comair Rotron	JQ12B7X	12	172 x 150 x 51	235	Ball	2260	25.2	UL/CSA/TUV/CE	54.3	12" <sup>2</sup>	22.95	19.95	17.95	15.95
1928281	Adda <sup>®</sup>	AD0424HB-G70	24	40 x 40 x 10	6.7	Ball	90	2.16	UL/CUL/TUV/CE	25	7" w/ conn.	11.95	10.95	9.95	8.95
1951473	Delta	AFB0424MD	24	40 x 40 x 20	7.0	Ball	60	1.44	UL/CSA/TUV/CE	30	2" w/ conn.	7.95	6.95	6.25	5.59
100910	Sunon <sup>®</sup>	KDE2404PKV2	24	40 x 40 x 20	7.7	Vapo	33	0.8	UL/CUL/TUV	21	12"	9.95	8.95	7.95	6.95
2100398	Adda <sup>®</sup>	AD0424MB-C50LF	24	40 x 40 x 20	8.5	Ball	70	1.68	UL/CUL/TUV/CE	28.5	12"	9.95	8.95	7.95	6.95
1951502	Adda	AD0424HB-C56	24	40 x 40 x 20	10.1	Ball	90	2.16	UL/CUL/TUV/CE	31.9	12" <sup>1</sup>	10.95	9.95	8.95	7.95
1708422	Sunon	KDE2406PHS3	24	60 x 60 x 15	15	Sleeve	50	1.2	UL/CUL/TUV/CE	31	12"	7.95	6.95	6.25	5.59
687818	Sunon <sup>®</sup>	KDE2406PHB2	24	60 x 60 x 15	18	Ball	56	1.3	UL/CUL/TUV/CE	31	11'	10.95	9.95	8.95	7.95
212652	Delta/Fonsan	DFD0624H	24	60 x 60 x 20	17.7	Ball	100	2.4	UL/CE/CSA/TUV	30	12"	6.95	6.25	5.59	4.95
140661	NMB	2408NL-05W-B60	24	60 x 60 x 20	18.4	Ball	100	2.4	UL/CSA/TUV/CE	31	2" w/ conn.	5.95	4.95	4.49	3.95
1951191	Sunon	KDE2406PKV2MS.AGN	24	60 x 60 x 20	18.5	Vapo	90	1.1	UL/CE	27.5	11"	7.95	6.95	6.25	5.59
1954922	NMB	2410ML-05W-B10	24	60 x 60 x 25	14	Ball	60	1.44	UL/CSA/TUV/CE	23	13"	7.95	6.95	5.59	4.95
1898611	Jamicon <sup>®</sup>	JF0625B2M	24	60 x 60 x 25	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	8.95	7.95	6.95	6.25
1952177	Japan Servo	TUDC24ZP-029	24	60 x 60 x 25	19	Ball	80	1.8	UL/CSA/TUV	32	12" <sup>2</sup>	7.95	6.95	6.25	5.59
212628	Adda	AD0624HS-A70GL	24	60 x 60 x 25	23.2	Sleeve	150	3.6	UL/CSA/TUV/CE	32.3	17" w/ conn.	6.95	6.25	5.59	4.95
1928337	Adda	AD624HX-A70GL	24	60 x 60 x 25	23.2	Hypro	150	3.6	UL/CSA/TUV/CE	32.3	12"	7.95	6.95	6.25	5.59
2081799	Nidec	TA225DC-M33516-16	24	60 x 60 x 25	25	Ball	180	4.3	UL/CSA	37	12"	7.95	6.95	6.25	5.59
1928071	Adda	AD0624HB-A70GL	24	60 x 60 x 25	25	Ball	150	3.6	UL/CSA/TUV/CE	33.9	12"	8.95	7.95	6.95	6.25
1809848	Sunon	PMD2406PTB1-A	24	60 x 60 x 25	35.8	Ball	220	5.3	UL/CUL/TUV/CE	48.8	12"	9.95	8.95	7.95	6.95
1928345	Adda	AD0824HX-D71L	24	80 x 80 x 15	29	Hypro	130	3.12	UL/CUL/TUV/CE	33.5	12"	9.95	8.95	7.95	6.95
1809864	Sunon	PMD2409PMB1-A	24	80 x 80 x 25	24	Ball	400	9.6	UL/CUL/TUV	55.2	12"	7.95	6.95	6.25	5.59
290029	Jamicon <sup>®</sup>	JF0825B2M	24	80 x 80 x 25	31.7	Ball	130	3.1	UL/CUL/TUV/CE	29.3	10"	9.95	8.95	7.95	6.95
136161	Jamicon <sup>®</sup>	JF0825B2H	24	80 x 80 x 25	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.95	8.95	7.95	6.95
1809952	Sunon	KDE2408PTB1-6A	24	80 x 80 x 25	42.5	Ball	110	2.6	UL/CUL/TUV/CE	36.5	12"	9.95	8.95	7.95	6.95
1928388	Adda	AD0824UB-A72GL	24	80 x 80 x 25	50	Ball	260	6.24	UL/CUL/CE	41	12" <sup>2</sup>	8.95	7.95	6.95	6.25
1580422	EBM Pabst <sup>®</sup>	8314/12	24	80 x 80 x 32	31.8	Ball	245	2.5	UL/CUL/CSA/DE	36	11" w/ conn. <sup>1</sup>	12.95	11.49	9.95	8.95
206965	Sunon	PMD2408PMB2-A	24	80 x 80 x 38	74.5	Ball	300	7.2	UL/CUL/CSA/DE	52	12"	19.95	17.95	15.95	14.49
1951051	Mechatronics	E9225L24B1-FS	24	92 x 92 x 25	35	Ball	85	2.04	UL/CUL	27	12" <sup>1</sup>	9.95	8.95	7.95	6.95
1708502	Sunon	KDE2409PTS3-6	24	92 x 92 x 25	39	Sleeve	112	2.7	UL/CUL/TUV/CE	27	12"	8.95	7.95	6.95	6.25
1928329	Adda	AD0924HX-A70GL	24	92 x 92 x 25	50	Hypro	150	3.6	UL/CUL/TUV/CE	33.7	12"	9.95	8.95	7.95	6.95
695042	Sunon <sup>®</sup>	KD2409PTB1-13AGN	24	92 x 92 x 25	51	Ball	140	3.4	UL/CE/TUV	37	12"	10.95	9.95	8.95	7.95

<sup>1</sup> 3 leads; speed sensor   <sup>2</sup> 3 leads; locked rotor protection   <sup>5</sup> 4 leads; wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

<sup>7</sup> 4 leads; all black tach/speed w/ connector   (These functions are optional, if needed)

<sup>†</sup> Blower

Fans continued on next page

**RoHS compliant product**   **+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.** [Details on page 197](#).

# DC Brushless Tubeaxial Fans, Blowers, Power Cords, Guards & Filters



153411



212661

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## DC Brushless Tubeaxial Fans & Blowers (Continued)

\*24V Web Code: QEF



\*48V Web Code: MAJ



1952960



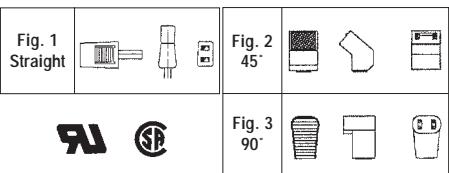
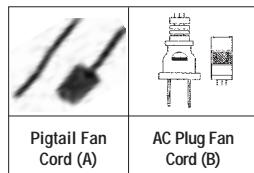
1952775

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
1928302	Adda	AD0924US-A71GL	24	92 x 92 x 25	57.8	Sleeve	210	5.04	UL/CUL/TUV/CE	38.6	12"	\$10.95	\$9.95	\$8.95	\$7.95
104890	EBM Pabst	3314/12	24	92 x 92 x 32	47.1	Ball	140	3.4	UL/CE/TUV	37	12" <sup>1</sup>	11.95	10.95	9.95	8.95
1951465	Delta	FFB0924VHE	24	92 x 92 x 38	85	Ball	280	6.7	UL/CSA/VDE/CE	47	12"	12.95	11.49	9.95	8.95
2115557	Sunon	KD2412PTB3-6A.GN	24	120 x 120 x 25	69	Ball	120	2.9	UL/CUL/TUV/CE	35.5	12"	12.95	11.49	9.95	8.95
1809881	Sunon	KD2412PTB1-6A	24	120 x 120 x 25	90	Ball	220	5.3	UL/CUL/TUV/CE	44.5	12"	13.95	12.49	10.95	9.95
1951115	Nidec	TA450DC-A34350-16	24	120 x 120 x 25	92	Ball	180	4.32	UL/CSA	40.4	10"	11.95	10.95	9.95	8.95
2120129	Sunon	PMD2412PTB3-A(2).GN	24	120 x 120 x 25	120	Dual ball	280	6.7	UL/CSA/TUV	48	12"	12.95	11.49	9.95	8.95
153411	Sunon	KD2412PMB2-6A	24	120 x 120 x 38	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	17.95	15.95	14.49	12.95
694444	Jamicon	JF123BS2MR-R	24	120 x 120 x 38	101.3	Sleeve	220	5.28	UL/CSA/TUV/CE	39.1	9"	13.95	12.49	10.95	9.95
694524	Jamicon	JF123B2MR-R	24	120 x 120 x 38	101.3	Ball	220	5.28	UL/CSA/TUV/CE	39.1	9"	15.95	14.49	12.95	11.49
107394	EBM Pabst	4294GH	24	120 x 120 x 38	108	Sleeve	220	5.3	UL/CE/CSA/TUV	49	Terminals	14.95	13.49	11.95	10.95
694532	Jamicon	JF123B2HR-R	24	120 x 120 x 38	118.7	Ball	310	7.44	UL/CSA/TUV/CE	43.8		17.95	15.95	14.49	12.95
1809910	Sunon	KD2412PMX-6A	24	120 x 120 x 38	119	Sleeve	300	7.2	UL/CUL/TUV/CE	45	12"	13.95	12.49	10.95	9.95
297959	Delta	BFB1224HE	24	125 x 126 x 34	27.2	Ball	340	8.1	UL/CE/CSA/TUV	50.5	12"	14.95	13.49	11.95	10.95
212662	EBM Pabst	6424/8-139	24	172 x 150 x 51	241	Ball	750	18	UL/CUL/TUV	57	24" <sup>6</sup>	19.95	17.95	15.95	14.49
212661	EBM Pabst	6224N/8HT	24	172 Round x 51	241.3	Ball	750	18	UL/CE/CSA/VDE	55	12" <sup>6</sup>	19.95	17.95	15.95	14.49
212644	Delta	AFB0948L	48	92 x 92 x 25	37	Ball	50	2.44	UL/CSA/TUV/CE	25	12"	14.95	13.49	11.95	10.95
2120137	Sunon	PMD4809PMB3-A(2).GN	48	92 x 92 x 38	91.7	Dual ball	120	5.8	UL/CSA/TUV	50.3	12"	15.95	14.49	12.95	11.49
212653	Delta	BFB1248HH	48	120 x 120 x 32	35.3	Ball	220	10.5	UL/CSA/CE/VDE	54	12"	14.95	13.49	11.95	10.95
1952960	Comair Rotron	MC48B6QDNX	48	120 x 120 x 32	102	Ball	180	8.4	UL/CSA/TUV/CE	48	11" w/ conn. <sup>1</sup>	15.95	14.49	12.95	11.49
1951457	Delta	EFB1248HHF	48	120 x 120 x 32	120	Ball	140	6.72	UL/CSA/TUV/CE	50.5	6" w/ conn.	14.95	13.49	11.95	10.95
1952775	Orion	OD1232-48HB	48	120 x 120 x 32	120	Ball	180	8.6	UL/TUV/CE	51	12" <sup>5</sup>	15.95	14.49	12.95	11.49
2120145	Sunon	PMD4812PMB1-A(2).GN	48	120 x 120 x 38	190	Dual ball	400	19.2	UL/CSA/TUV	54	12"	17.95	15.95	14.95	12.95
1951422	Delta	FFB1248EHE-ROO	48	120 x 120 x 38	190	Ball	500	24	UL/CSA/TUV/CE	59	12" w/ conn. <sup>2</sup>	17.95	15.95	14.49	12.95
689063	EBM Pabst	W2G115-AG75-85	48	127 x 127 x 38	155	Ball	310	15	UL/CUL	52	10" <sup>1</sup>	17.95	15.95	14.49	12.95
1954711	Delta	EFB1348HHE-SV06	48	127 x 127 x 38	185	Ball	360	17.28	UL/CSA/VDE/CE	55.5	26" <sup>1</sup>	17.95	15.95	14.95	12.95

<sup>1</sup> 3 leads; speed sensor   <sup>2</sup> 3 leads; locked rotor protection   <sup>4</sup> 4 Leads wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

<sup>6</sup> 5 leads; locked rotor with 2 separate ground if needed   (These functions are optional, if needed)   <sup>†</sup> Blower   <sup>‡</sup> Blue Part No. = Limited Quantity Available

## For Fans w/ Terminal Connection



\* Green cord, thermal controlled

Part No.	Description	Fig.	Length	1	10	100	250
28564	Straight pigtail fan cord	1A	24"	\$1.49	\$1.25	\$0.99	\$0.89
2076658	Straight pigtail fan cord	1A	36"	1.49	1.25	.89	.79
1952548	45° pigtail fan cord	2A	24"	1.25	1.19	1.09	.99
104192	90° pigtail fan cord	3A	24"	1.25	1.19	1.09	.99
1952572	Straight AC plug fan cord	1B	72"	2.95	2.69	2.39	2.19
2117245	45° AC plug fan cord	2B	24"	11.95	10.95	9.95	8.95
1952581	45° AC plug fan cord	2B	72"	2.95	2.69	2.39	2.19

Part No.	mm	Description	Fig.	1	10	50	100	Part No.					Description					Part No.					
								1	10	50	100		1	10	50	100	1	10	50	100	1	10	50
123502	40	Metal (chrome) guard	1	\$.59	\$.55	\$.49	\$.45	1952661	92	Plastic guard only	3	\$0.89	\$0.85	\$0.75	\$0.69	1952679	120	Plastic guard only	3	.99	.89	.79	.75
120038	60	Metal (chrome) guard	1	.65	.59	.55	.49	1952678	150	Plastic guard only	3	1.29	1.19	1.09	.99	1952695	40	Plastic guard w/ mesh	4	1.29	1.19	1.09	.99
687666	60	Metal (black anodized) guard	2	.85	.79	.75	.69	1952708	60	Plastic guard w/ mesh	4	1.95	1.79	1.59	1.39	138562	80	Plastic guard w/ mesh	4	1.65	1.49	1.39	1.29
31924	80	Metal (chrome) guard	1	.69	.65	.59	.55	229665	92	Plastic guard w/ mesh	4	1.95	1.75	1.49	1.35	196817	120	Plastic guard w/ mesh	4	2.19	2.09	1.95	1.79
1928433	80	Metal (black anodized) guard	2	.79	.69	.65	.59	1952716	172	Plastic guard w/ mesh	4	2.79	2.49	2.29	2.19	1952724	60	Alum. washable filter	5	1.95	1.75	1.59	1.45
123511	92	Metal (chrome) guard	1	.75	.69	.65	.59	138580	80	Alum. washable filter	5	2.09	1.95	1.75	1.59	1952732	92	Alum. washable filter	5	2.25	1.95	1.75	1.59
25735	120	Metal (chrome) guard	1	.79	.75	.69	.65	130105	120	Alum. washable filter	5	2.95	2.75	2.49	2.25								
695068	120	Metal (black anodized) guard	2	1.09	.99	.89	.79																
695076	127	Metal (chrome) guard	1	1.25	1.09	.99	.89																
1811198	172	Metal (chrome) guard	1	1.25	1.09	.99	.89																
1952644	40	Plastic guard only	3	.55	.49	.45	.39																
1952652	60	Plastic guard only	3	.65	.59	.55	.49																
1952290	80	Plastic guard only	3	.69	.59	.55	.49																

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



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## 115 & 220VAC Tubeaxial Fans



★ Web Code: ABJ

mm to Inches Conversion Chart

212600

206309

275793

209365

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VAC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection	Pricing			
												1	10	50	100
213867	Fulltech	UF60D11BWH	115	60 x 60 x 30	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	\$17.95	\$15.95	\$14.49	\$12.95
2100267	Pelonis	PM8025HA1S	115	80 x 80 x 25	18.8	Sleeve	110	13.2	UL/CUL/CE	26.7	Terminals	12.95	11.49	9.95	8.95
146078	Common Wealth	FP108AX-S1-B (115)	115	80 x 80 x 25	23	Ball	180	14	UL/CE	29	12" leads	15.95	14.49	12.95	11.49
300557	Fulltech	UF80B11SWH	115	80 x 80 x 25	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	12.95	11.49	9.95	8.95
300258	Fulltech	UF80B11BTH	115	80 x 80 x 25	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	13.95	12.49	10.95	9.95
212645	Elina	EP083815-LBL	115	80 x 80 x 38	24	Ball	110	9	UL/CSA/TUV/CE	32	12" leads	13.95	12.49	10.95	9.95
300582	Fulltech	UF80A11SWL	115	80 x 80 x 38	25	Sleeve	110	12	UL/CUL/TUV/CE	32	12" leads	13.95	12.49	10.95	9.95
300303	Fulltech	UF80A11BWL	115	80 x 80 x 38	25	Ball	110	11	UL/CUL/TUV/CE	32	12" leads	15.95	14.49	12.95	11.49
300330	Fulltech	UF80A11BTL	115	80 x 80 x 38	25	Ball	110	12	UL/CUL/TUV/CE	32	Terminals	14.95	13.49	11.95	10.95
300600	Fulltech	UF80A11BWH	115	80 x 80 x 38	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	15.95	14.49	12.95	11.49
1950155	Sunon	SF11580A-1083HSL-GN	115	80 x 80 x 38	30	Sleeve	150	13	UL/CE/TUV	33	24" leads	13.95	12.49	10.95	9.95
300389	Fulltech	UF80A11BTH	115	80 x 80 x 38	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	15.95	14.49	12.95	11.49
75433	Sunon	SF11592A-1092HSL	115	92 x 92 x 25	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	12.95	11.49	9.95	8.95
303467	Sunon	SF11592A-1092HBL	115	92 x 92 x 25	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	14.95	13.49	11.95	10.95
75460	Sunon	SF11592A-1092HBT-R	115	92 x 92 x 25	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	16.95	14.95	13.49	11.95
1819376	NMB	4710PS12TB30A00	115	120 x 120 x 25	70.6	Ball	190	11	UL/CSA/VDE/CE	38	Terminals	12.95	11.49	9.95	8.95
1810048	Sunon	SP101AT-1122HBL.GN	115	120 x 120 x 25	78	Ball	180	18	UL/CUL/TUV/CE	46	12" leads	16.95	14.49	13.49	11.95
124063	Sunon	SP101AT-1122HBT	115	120 x 120 x 25	78	Ball	180	18	CSA/TUV/CE	46	Terminals	16.95	14.49	13.49	11.95
303361	Fulltech	UF12A11BTL1	115	120 x 120 x 38	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	14.95	13.49	11.95	10.95
1585371	Sunon	SP103A-1123LBL	115	120 x 120 x 38	78	Ball	130	11	UL/CSA/TUV	39	6" w/ conn.	11.95	10.95	9.95	8.95
1918796	Jamicon	KA1238L1B0A0-T	115	120 x 120 x 38	78	Dual Ball	200	12	UL/CUL/CE	38	Terminals	14.95	13.49	11.95	10.95
300792	Fulltech	UF12A11STL	115	120 x 120 x 38	81	Sleeve	150	15	UL/CUL/TUV/CE	38	Terminals	14.95	13.49	11.95	10.95
303483	Fulltech	UF12A11SWL	115	120 x 120 x 38	82	Sleeve	150	12	UL/CUL/TUV/CE	38	12" leads	12.95	11.49	10.49	9.49
2100427	Adda	AA1281HS-ATLF	115	120 x 120 x 38	83	Sleeve	250	16.3	UL/CSA/TUV/CE	42.2	Terminals	13.95	12.49	10.95	9.95
106586	Common Wealth	FP108-1-S1/T	115	120 x 120 x 38	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	13.95	12.49	10.95	9.95
303415	Common Wealth	FP108-1-S1-B/W	115	120 x 120 x 38	105	Ball	200	17	UL/CSA/TUV/CE	47	12" leads	15.95	14.49	12.95	11.49
16935	Common Wealth	FP108-1-S1-B/T	115	120 x 120 x 38	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	15.95	14.49	12.95	11.49
212600	Fulltech	UF12A11BWH	115	120 x 120 x 38	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	15.95	14.49	12.95	11.49
1707163	Sunon	SP101A-1123HBL-GN	115	120 x 120 x 38	107	Ball	180	18	UL/CSA/TUV	50	12" leads	15.95	14.49	12.95	11.49
206309	Adda	AA1281UB-AT	115	120 x 120 x 38	107	Ball	230	24	UL/CUL/CE	48	Terminals	15.95	14.49	12.95	11.49
275793	Sunon	SP101A-1123HBT	115	120 x 120 x 38	107	Ball	180	18	UL/CUL/CE	50	Terminals	16.95	14.95	13.49	11.95
1918770	Jamicon	KA1238H1B110-T	115	120 x 120 x 38	110	Dual Ball	300	24	UL/CUL/CE	45	Terminals	12.95	11.49	9.95	8.95
303408	Sunon	SP100A-1123XBL	115	120 x 120 x 38	117	Ball	240	20	UL/CSA/TUV/CE	47	12" leads	17.95	15.95	14.49	12.95
102884	Sunon	SP100A-1123XBT	115	120 x 120 x 38	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	17.95	15.95	14.49	12.95
108725	Fulltech	UF15AC11BTH	115	172 x 150 x 38	211	Ball	230	28	UL/CUL/TUV/CE	58	Terminals	29.95	27.95	25.95	23.95
2099454	Adda	AA1751MB-AW	115	172 x 150 x 51	186	Ball	350	29.8	UL/CUL/TUV/CE	50.5	12" leads	29.95	26.95	23.95	21.49
189684	Fulltech	UF15PC12BTH	115	172 x 150 x 51	226	Ball	250	30	CSA	58	Terminals	34.95	32.95	29.95	26.95
212582	Fulltech	UF15PC11BWH	115	172 x 150 x 51	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	36.95	34.95	32.95	29.95
1950956	Arctic	KEST-481BW	115	172 x 150 x 51	260	Ball	620	46	UL/CE/TUV	61	12" leads	34.95	32.95	29.95	26.95
1810128	Common Wealth	FP-108AX-S1-B (220)	220	80 x 80 x 25	21	Ball	120	13	UL/CSA/TUV/CE	29	13" leads	16.95	14.49	13.49	11.95
2099471	Adda	AA8382MX-AT	220	80 x 80 x 38	24	Hypro	50	6.8	UL/CUL/TUV/CE	25.3	Terminals	14.95	13.49	11.95	10.95
100918	Sunon	SF23080A/2083HSL	220	80 x 80 x 38	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	16.95	14.49	13.49	11.95
355630	Fulltech	UF-80A23-BTH-R	220	80 x 80 x 38	30	Ball	60	12	UL/CSA/VDE/CE	36	Terminals	16.95	14.49	13.49	11.95
209365	Bi-Sonic	4C-230LB	220	120 x 120 x 38	63	Ball	60	9	TUV/CE	34	10" leads	14.95	13.49	11.95	10.95
302244	Comair Rotron	28023	220	120 x 120 x 38	88	Ball	130	28.6	UL/CSA	50.7	Terminals	14.95	13.49	11.95	10.95
1918753	Jamicon	KA1238H2B01	220	120 x 120 x 38	89	Dual Ball	200	23	UL/CUL/TUV/CE	42	Terminals	13.95	12.49	10.95	9.95
1918761	Jamicon	KA1238H2B12	220	120 x 120 x 38	110	Ball	200	24	UL/CUL/TUV/CE	45	Terminals	12.95	11.49	9.95	8.95
1585346	Sunon	A2123-HBL	220	120 x 120 x 38	117	Ball	120	20	UL/CUL/TUV	50	17" leads	14.95	13.49	11.95	10.95
303459	Sunon	DP200A-2123XBL	220	120 x 120 x 38	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.49	12.95	11.49
1585338	Sunon	A2123-HBT	220	120 x 120 x 38	117	Ball	120	20	UL/CUL/TUV	50	Terminals	14.95	13.49	11.95	10.95
102892	Sunon	DP200A-2123XBT	220	120 x 120 x 38	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	17.95	15.95	14.49	12.95
1809872	Sunon	A2175-HBT	220	172 x 150 x 51	239	Ball	110	25	UL/TUV/CE	51	Terminals	29.95	26.95	23.95	19.95
1950964	Arctic	KEST-482BW	220	172 x 150 x 51	256	Ball	400	58	UL/TUV/CE	58	12" leads	32.95	29.95	26.95	23.95

\* Blue Part No. = Limited Quantity Available

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

JAMECO

ReliaPro

Screw  
Terminals



Input: 120VAC @ 60Hz



\* Web Code: ABQ

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We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 130) for just \$2.50 each. A 100 pc. minimum order applies.



176604

185439

206439

Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VAC)	Current (mA)							1	10	50	100
2082521	Atlinks	5-2634	5	400	2.1mm x 5.5mm right angle F	2.0 x 1.4 x 1.3	White	6'	0.4	UL/CSA	\$3.95	\$3.59	\$3.25	\$2.95
2082530	Atlinks	5-2633	5	400	2.1mm x 5.5mm right angle F	2.0 x 1.4 x 1.3	Black	6'	0.4	UL/CSA	4.95	4.49	3.95	3.59
249017	ReliaPro	ACU070150	7	1500	2.5mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	9.95	8.95	7.95	7.29
100061	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	7.95	7.29	6.59	5.95
1950921	ITI	AM-9700ALF	9	700	Screw terminals	2.8 x 2.0 x 1.7	White	—	0.6	UL	4.95	4.49	3.95	3.59
236814	ReliaPro	ACU090080	9	800	3.5mm M	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	7.95	6.95	6.25	5.59
1581281	OEM	AA-091A	9	1000	2.1mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
102234	ReliaPro	ACU090100Z8182	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	8.95	7.95	7.29	6.49
1586154	Arndt	AA091A	9	1000	2.5mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	7.95	6.95	6.25	5.59
157041	ReliaPro	ACU090100E8942	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	8.95	7.95	7.29	6.49
112336	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	10.95	9.95	8.95	7.95
688634	Arndt	PP-1012-A	10	1200	2.5mm x 5.5mm F	3.5 x 2.5 x 1.9	Black	6'	1.3	UL	7.95	6.95	6.25	5.59
2076543	Radio Shack	15-1963	12	400	2.1mm x 5.5mm F	2.6 x 1.7 x 1.6	Black	6'	0.6	UL/CSA	5.95	5.35	4.79	4.29
101258	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
2076666	CIC	48A12-500Q	12	500	2.5mm x 5.5mm right angle F	3.3 x 2.6 x 2.0	Black	6'	1.0	CSA	4.95	4.49	3.95	3.59
10081	ReliaPro	ACU120100J0920	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	9.95	8.95	7.95	7.29
100167	ReliaPro	A411201000U	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CUL	9.95	8.95	7.95	7.29
10428	ReliaPro	ACU120100Z9121	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	9.95	8.95	7.95	7.29
167151	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	10.95	9.95	8.95	7.95
307838	ReliaPro	ADU120160H4120	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	11.95	10.95	9.95	8.95
153761	ReliaPro	ADU120160C2521	12	1600	3.5mm M	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	10.95	9.95	8.95	7.95
206404	Arndt	MGT1220	12	1670	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	9.95	8.95	7.95	7.29
2082564	ReliaPro	GPU1355000	13.5	5000	2.1mm x 5.5mm F (Table-Top style)	4.7 x 3.2 x 2.5	Black	6'	2.4	—	22.95	20.49	18.95	16.95
171408	ReliaPro	ACU140050	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	9.95	8.95	7.95	6.95
318684	Horizon	ACU140085	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	12.95	11.49	9.95	8.95
100108	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
163053	ReliaPro	ADU160110	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	10.95	9.95	8.95	7.95
176604	ReliaPro	BHU1604000	16	4000	2.1mm x 5.5mm F (Table-Top style)	4.4 x 3.1 x 2.5	Black	6'6"	2.8	—	19.95	17.95	15.95	13.95
2082142	Ault	308-2018	18	900	Screw terminals	1.88 x 2.18 x 1.95	Beige	—	0.7	UL	9.95	8.95	7.95	6.95
121216	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.95	8.95	7.95
185439	ReliaPro	AFU180185	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	—	11.95	10.95	9.95	8.95
2076631	Ault	T57-182200	18	2200	2.1mm x 5.5mm F	3.2 x 2.6 x 2.2	Black	5'6"	1.2	UL/CUL	11.95	10.95	9.95	8.95
87581	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	8.95	7.95	7.29	6.49
206439	Arndt	MGT2420	24	830	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	10.95	9.95	8.95	7.95
140599	ReliaPro	ADU240100D5531	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.95	9.95	8.95	7.95
10102	ReliaPro	ADU240100E0461	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.95	9.95	8.95	7.95
2100195	ReliaPro	GPU572401500WA00	24	1500	2.1mm x 5.5mm F	3.3 x 2.6 x 2.3	Black	6'	1.7	UL/CUL	14.95	13.49	11.95	10.95

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Non-CEC P/N	CEC Part No.	Volt (VDC)	Curr. (mA)			1	10	50	100
—	251565	3.3	1500	2.5x1.1x1.7	0.2	\$11.95	\$10.95	\$9.49	\$8.49
—	251600	3.3	2500	2.9x1.1x1.7	0.3	12.95	11.49	9.95	8.95
252701	—	5	500	2.9x1.1x1.7	0.3	10.95	9.95	8.95	7.95
252727	252728	5	1000	2.5x1.1x1.7	0.2	12.95	11.49	9.95	8.95
—	252736	5	1500	2.5x1.1x1.7	0.2	13.95	12.49	10.95	9.95
—	252720	5	2500	2.9x1.3x2.2	0.3	14.95	13.49	11.95	10.49
208222	—	5	3000	2.9x1.3x2.2	0.3	14.95	12.95	10.95	8.95
—	252753	9	500	2.5x1.1x1.7	0.2	11.95	10.95	9.95	8.95
—	1950841	9	1000	2.5x1.1x1.7	0.2	13.95	12.49	10.95	9.95
—	252779	9	1200	2.9x1.3x2.2	0.3	13.95	12.49	10.95	9.95
252786	—	9	1500	2.9x1.3x2.2	0.3	15.95	14.49	12.95	11.49

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Female Straight

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Female  
Right Angle



1954199      1707112

Part No.	Manufacturer	Product No.	Output Rating	Output Connector	Input	Size	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing				
			Volt. (VDC)	Current (mA)							1	10	50	100	
1809805	Globtek	WR9HA1000C9P-F(R)	5	1000	2.1mm x 5.5mm F 2	100-240@50-60	2.1 x 1.2 x 1.6	Black	6'	0.2	UL/CUL/CE	\$10.95	\$9.95	\$8.95	\$7.95
1940660	Mean Well	GS06U1P1J	5	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
1950981	Philips	AY3192/17	5	2000	1.7mm x 4.0mm F 2	100-240@50-60	3.1 x 1.4 x 1.3	Black	6'	0.3	UL/CUL	10.95	9.95	8.95	7.95
157340	D-Link	AF1205B	5	2000	2.1mm x 5.5mm right angle F 2	100-120@50-60	2.4 x 1.4 x 1.1	Black	6'	0.3	UL/CUL/TUV	10.95	9.95	8.95	7.95
210894	ReliaPro	SYS1193-1005	5	2000	2.1mm x 5.5mm F 2	100-240@47-63	2.9 x 1.4 x 2.2	Black	6'	0.2	UL/CUL	12.95	11.49	10.49	9.49
1940740	Mean Well	GS12U05P1I	5	2000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	4'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
189190	Interex	EPA101MU-05B	5	2000	2.5mm x 5.5mm F 1	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	12.95	11.49	10.49	9.49
1954199	Mean Well	GS15U-1P1J	5	2400	2.1mm x 5.5mm F 2	90-264@47-63	2.8 x 1.3 x 2.0	Black	6'	0.4	UL/CUL/CEC	14.95	13.49	11.95	10.95
689864	DVE	DSA-0151A-05	5	2400	2.5mm x 5.5mm right angle F 2	100-120@50-60	3.2 x 2.1 x 1.4	Black	6'	0.5	UL/CUL	14.95	13.95	12.95	11.95
1919158	Compaq	281855-001	5	3000	1.3mm x 3.5mm F 2	100-240@50-60	3.1 x 1.4 x 2.2	Black	6'	0.3	UL/CUL/TUV/CE	14.95	13.95	12.95	11.95
1952863	Mean Well	GS18U05-P1J	5	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.5	UL/CUL/CEC	15.95	14.95	13.95	12.95
379622	Mean Well	ES25U05-P1J	5	4000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.95	13.49	11.95	10.95
379623	Mean Well	GS25U05-P1J	5	4000	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	15.95	14.95	13.95	12.95
2082011	Friwo	MPA3U	6	400	2.1mm x 5.5mm right angle F 2	100-240@50-60	2.8 x 2.0 x 0.7	Black	6'	0.3	UL/CUL	5.95	5.49	4.95	3.95
2095429	Phihong	PSMIIR-060	6	1660	2.1mm x 5.5mm F 2	100-240@50-60	2.8 x 1.8 x 1.2	Black	6'	0.3	UL/CUL/CE	14.95	13.49	11.95	10.95
1918702	Globtek	GT-41052-1506	6	2500	2.5mm x 5.5mm right angle F 2	100-240@50-60	2.9 x 1.7 x 1.5	Black	6'	0.5	UL/CUL/CE	22.95	19.95	17.95	15.95
1940678	Mean Well	GS06U-1P1J	7.5	800	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
1940758	Mean Well	GS12U07/P1I	7.5	1600	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
380008	Mean Well	ES25U07-P1J	7.5	2930	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.95	14.49	12.95	11.95
380332	Mean Well	ES25U07-P1M	7.5	2930	2.5mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.95	14.49	12.95	11.95
1940686	Mean Well	GS06U-2P1J	9	660	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
2099850	Ault	HES12-090130	9	1300	2.1mm x 5.5mm F 2	100-240@50-60	2.4 x 1.8 x 1.3	Black	6'	0.3	UL/CUL/CE	11.95	10.95	9.95	8.95
1940766	Mean Well	GS12U09-P1I	9	1330	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL	12.95	11.49	10.49	9.49
1952847	Mean Well	GS18U09-P1J	9	2000	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	15.95	14.95	13.95	12.95
380140	Mean Well	GS25U09-P1J	9	2780	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	17.95	15.95	14.49	12.95
1940694	Mean Well	GS06U-3P1J	12	500	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CE	11.95	10.95	9.95	8.95
1955036	Arndt	26092*	12	700	2.1mm x 5.5mm F 2	95-240@47-63	4.0 x 2.3 x 1.1	Black	5.5'	0.4	UL/CUL	10.95	9.95	8.95	6.95
1940774	Mean Well	GS12U12-P1I	12	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
159354	Group West	TRC-12-1200	12	1200	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 1.9 x 1.0	Black	6'	0.2	UL/CUL/CE	10.95	9.95	8.95	7.95
1954623	Dee Van	DSA-0151A-12	12	1250	2.1mm x 5.5mm F 2	100-120@50-60	3.1 x 2.1 x 1.4	Black	6'	0.5	UL/CUL	11.95	10.95	9.95	8.95
1954201	Mean Well	GS15U-3P1J	12	1250	2.1mm x 5.5mm F 2	90-264@47-63	2.8 x 1.3 x 2.0	Black	6'	0.4	UL/CUL/CE	15.95	14.49	12.95	11.49
2082062	Ktec	KSAD1200	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.2 x 1.7 x 1.3	Black	4'	0.3	UL/CUL	12.95	11.49	9.95	8.95
2082054	APD	WA-18G12U	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 1.9 x 1.5	Black	6'	0.4	UL/CUL/TUV	12.95	11.49	9.95	8.95
1952855	Mean Well	GS18U12-P1J	12	1500	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.2	UL/CUL/CE/CEC	15.95	14.95	13.95	12.95
2099892	DVE	DSA-0151F-12	12	1500	2.5mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.6	Black	6'	0.4	UL/CUL/CE	13.95	12.49	11.49	10.95
1950497	ReliaPro	SYS1308-2412	12	2000	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.3 x 1.7	Black	6'	0.4	UL/CUL/CE	15.95	14.49	12.95	11.49
2082134	ReliaPro	ST-122A	12	2000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.4	UL/CUL/CEC	16.95	15.49	13.95	12.95
380156	Mean Well	GS25U12-P1J	12	2080	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE/CEC	16.49	14.95	13.49	12.49
380358	Mean Well	ES25U12-P1M-R	12	2080	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.3	UL/CUL/CE	17.49	15.95	14.49	13.49
1940707	Mean Well	GS06U-4P1J	15	400	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
1707112	Mean Well	SW12U15-P1I	15	800	2.1mm x 5.5mm F 2	100-240@50-60	2.6 x 2.0 x 1.0	Black	6'	0.5	UL/CUL/CE	11.95	10.49	9.49	8.49
1940782	Mean Well	GS12U15-P1II	15	800	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
1952871	Mean Well	GS18U15-P1J	15	1200	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.4	Black	6'	0.4	UL/CUL/CE/CEC	15.95	14.95	13.95	12.95
380173	Mean Well	GS25U15-P1J	15	1670	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	16.49	14.95	13.49	12.49
1940715	Mean Well	GS06U-5P1J	18	330	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
1940791	Mean Well	GS12U18-P1I	18	670	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
380190	Mean Well	ES25U18-P1J	18	1380	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	16.49	14.95	13.49	12.49
380191	Mean Well	GS25U18-P1J	18	1380	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	16.49	14.95	13.49	12.49
1940723	Mean Well	GS06U-6P1J	24	250	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
1940803	Mean Well	GS12U24-P1I	24	500	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
1952898	Mean Well	GS18U24-PIU	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	15.95	14.95	13.95	12.95
380202	Mean Well	GS25U24-P1J	24	1040	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	16.49	14.95	13.49	12.49
380220	Mean Well	GS25U28-P1J	28	890	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.6	UL/CUL/CEC	16.49	14.95	13.49	12.49
380412	Mean Well	ES25U36-P1M	36	690	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	16.49	14.95	13.49	12.49
380244	Mean Well	GS25U48-P1J	48	520	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	16.49	14.95	13.49	12.49

\* With light indicator

† Includes 4 each interchangeable plug kit

✓ CEC equivalent available

CEC      • Blue Part No.: Limited Quantity Available

JAMECO ReliaPro

### 3-Prong Wall Adapter Enclosure

- 3-prong power plug and cable strain relief
- Material: noryl
- Color: black

Part No.

Style

Size (H x W x D)

1

10

100

115052

Non-vented

3.4" x



## Energy Star Worldwide Interchangeable AC-to-DC Regulated Switching Wall Adapters

Meets US and European Energy Star compliance. Approved for European high-efficiency power applications.

- Field changeable AC Plug Clips (**sold separately, see below**)
- Input voltage: 90-264VAC @ 47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive; except P/N 1918702: 2.5mm x 5.5mm female right angle center positive
- Load regulation: ±5%
- Applications: wireless communications, portable equipment, digital camera, peripherals and networking



\* Web Code: NBH

Wall Adapters (AC Plug Clip required, not included)

Phihong & Mean Well AC Plug Clips (below)

Shown w/o AC Plug Clip  
AC Plug Clips Not Included

Part No.	Manufacturer	Mfr. Part No.	Output Volt. (VDC)	Current (A)	Power (W)	Ripple (mVp-p)	Line Regulation	Efficiency (%)	Dimensions (L" x W" x H")	Pricing			
										1	10	50	100
1950761	Phihong	PSA05R-050PA	5	1.0	5	50	±1%	60 - 75	2.8 x 1.8 x 1.2	\$5.95	\$5.49	\$4.95	\$4.49
2082302	Mean Well	GE12I05-P1J <sup>#</sup>	5	2.0	10	50	±5%	70	2.8 x 1.6 x 1.5	14.95	13.49	11.95	10.95
2095429	Phihong <sup>†</sup>	PSMIIR-060 <sup>#</sup>	6	1.66	10	100	±5%	73	2.8 x 1.8 x 1.2	14.95	13.49	11.95	10.95
1918702	Globtek #	GT-41052-1506 <sup>#</sup>	6	2.5	15	100	±1%	76	2.9 x 1.7 x 1.5	22.95	19.95	17.95	15.95
2082311	Mean Well	GE18I09-P1J <sup>#</sup>	9	2.0	18	100	±5%	75	3.2 x 1.7 x 1.6	16.95	15.49	13.95	12.95
228770	Phihong	PSA05R-120 <sup>#</sup>	12	0.42	5	120	±5%	60	2.8 x 1.8 x 1.2	12.95	11.49	10.49	9.49
2108656	Phihong	PSC12R-120 <sup>#</sup>	12	1.0	12	240	±5%	78	2.8 x 1.8 x 1.2	14.95	13.49	11.95	10.95
2100179	Phihong	PSAA20R-120R	12	1.67	20	120	±5%	81	2.8 x 2.0 x 1.3	19.95	18.95	16.95	15.95
2082329	Phihong	PSC30R-120 <sup>#</sup>	12	2.5	30	180	±1%	80	3.8 x 2.1 x 1.2	23.95	21.49	18.95	16.95
2114423	APS*	PA1050-120-1	12	3.33	40	120	±1%	75	4.3 x 2.1 x 1.3	22.95	20.49	17.95	15.95
2114458	APS*	PA1050-120-1	12	4.16	50	120	±1%	75	4.3 x 2.1 x 1.3	24.95	22.49	19.95	17.95
2082337	Mean Well	GE12I15-P1J <sup>#</sup>	15	0.8	12	150	±3%	76	2.8 x 1.6 x 1.5	13.95	12.49	10.95	9.95
2082345	Mean Well	GE12I24-P1J <sup>#</sup>	24	0.63	15	240	±3%	80	2.8 x 1.6 x 1.5	13.95	12.49	10.95	9.95
2114431	APS*	PA1050-240-1	24	1.67	40	240	±1%	75	4.3 x 2.1 x 1.3	22.95	20.49	17.95	15.95
2114466	APS*	PA1050-240-1	24	2.08	50	240	±1%	75	4.3 x 2.1 x 1.3	24.95	22.49	19.95	17.95
2114440	APS*	PA1050-480-1	48	0.83	40	480	±1%	75	4.3 x 2.1 x 1.3	24.95	22.49	19.95	17.95

<sup>†</sup> Comes with USA AC plug clip (RPA)    <sup>#</sup> 2.5mm x 5.5mm female right angle center positive plug

\* Kit includes US, UK, EU, AUS plugs

### Phihong AC Plug Clips (sold separately, required for above adapters)

Part No.	Mfr. P/N	Description (see above for photos)	1	10	50	100
229155	RPA <sup>#</sup>	USA AC plug only	\$6.95	\$6.65	\$5.59	\$5.55
229163	RPE <sup>#</sup>	European AC plug only	.69	.65	.59	.55
229171	RPK	United Kingdom AC plug only	1.05	.99	.95	.89
2081422	RPS	Australia AC plug only	1.75	1.69	1.65	1.59
229181	RPKIT <sup>#</sup>	Kit includes RPA/RPE/RPK/RPS clips (4)	3.49	2.95	2.69	2.39

### Mean Well Plug AC Clips (sold separately, required for above adapters)

Part No.	Mfr. P/N	Description (see above for photos)	1	10	50	100
2082353	AC-Plug-US <sup>#</sup>	USA AC plug only	\$6.95	\$6.65	\$6.22	\$5.59
2082361	AC-Plug-EU <sup>#</sup>	European AC plug only	.89	.85	.79	.75
2082370	AC-Plug-UK <sup>#</sup>	United Kingdom AC plug only	1.09	1.05	.99	.95
2082388	AC-Plug-AU <sup>#</sup>	Australia AC plug only	.95	.89	.85	.79
2082396	AC-Plug-MIX <sup>#</sup>	Kit includes US, EU, UK & AU clips (4)	3.49	2.95	2.69	2.39

JAMECO ReliaPro



## AC-to-DC Regulated Linear Wall Adapters

\* Web Code: WAZ

We specialize in Wall Adapters – Call for additional OEM PRICING.

◆ Polarity figures & photos on next page

Part No.	Manufacturer	Product No.	Output Rating		Output Connector		Input VAC @ Hz	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)	ID x OD mm	Female/Male: Polarity ◆							1	10	50	100
164101	ReliaPro	GPU410500	5	500	2.1mm x 5.5mm F 2		120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	\$9.95	\$8.95	\$7.95	\$6.95
220935	ReliaPro	DDU050060	5	600	2.1mm x 5.5mm F 1		120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	10.95	9.95	8.95	7.95
319986	DVE	DV-580R	5	800	2.5mm x 5.5mm F 2		120@60	3.2 x 2.2 x 2.0	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
2081609	Condor	RWP480505	5	1000	2.1mm x 5.5mm F 2		120@60	3.2 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	12.95	11.49	9.95	8.95
1953612	ReliaPro <sup>#</sup>	DBU0501000	5	1000	2.1mm x 5.5mm F 2		120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	12.95	11.49	9.95	8.95
168605	ReliaPro	DBU0510000	5	1000	2.5mm x 5.5mm F 2		120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	12.95	11.49	9.95	8.95
681571	ITE	RWP480505-2	5	1000	2.5mm x 5.5mm right angle F 2		120@60	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	12.95	11.49	9.95	8.95
1919220	Friwo	FE4823	5	1200	2.5mm x 5.5mm F 2		120@60	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL	14.95	13.49	11.95	10.95
190512	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2		120@60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	9.95	8.95	7.95	6.95
283573	ReliaPro	ADR-6V500MA-2.1	6	500	2.1mm x 5.5mm F 2		120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	10.95	9.95	8.95	7.95
1953701	ReliaPro	ADR-6V500MA-2.5	6	500	2.5mm x 5.5mm F 2		120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	9.95	8.95	7.95	6.95
1953719	ReliaPro	DBU0610000	6	1000	2.1mm x 5.5mm F 2		120@60	3.2 x 2.3 x 2.0	Black	6'	1.3	UL/CSA	12.95	11.49	9.95	8.95
190529	ReliaPro	AD9123	9	250	2.5mm x 5.5mm right angle F 2		120@60	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	9.95	8.95	7.95	6.95
1953639	ReliaPro <sup>#</sup>	DCU09050	9	500	2.1mm x 5.5mm F 2		120@60	3.3 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
1953647	ReliaPro <sup>#</sup>	DCU09050	9	500	2.5mm x 5.5mm F 2		120@60	3.3 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
220898	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1		120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	9.95	8.95	7.95	6.95
1953655	ReliaPro <sup>#</sup>	DDU120050H	12	500	2.1mm x 5.5mm F 1		120@60	2.9 x 2.2 x 1.9	Black	6'	1.3	UL/CUL	10.95	9.95	8.95	7.95
162996	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2		120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	10.95	9.95	8.95	7.95
170245	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2		120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	14.95	13.49	11.95	10.95
1953663	ReliaPro <sup>#</sup>	DCU1201000	12	1000	2.5mm x 5.5mm F 2		120@60	3.3 x 2.3 x 2.0	Black	6'	1.2	UL/CSA	14.95	13.49	11.95	10.95
174861	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2		120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	12.95	11.49	9.95	8.95
1953680	ReliaPro <sup>#</sup>	DFU240500W	24	500	2.5mm x 5.5mm F 1		120@60	3.1 x 2.2 x 2.0	Black	6'	1.2	UL/CUL	11.95	10.95	9.95	8.95
174879	ReliaPro	DCU090025	24	500	2.5mm x 5.5mm F 2		120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	12.95	11.49	9.95	8.95
1953698	ReliaPro <sup>#</sup>	DFU2401000	24	1000	2.1mm x 5.5mm F 2		120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CSA	16.95	14.95	13.49	11.95
1953671	ReliaPro <sup>#</sup>	MPC-2400107	24	1000	2.5mm x 5.5mm F 2		120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CSA	16.95	14.49	11.95	10.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# AC-to-DC Unregulated Linear Wall Adapters

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

JAMECO ReliaPro   

◆ Polarity 1 (+)  (center negative)  
 Polarity 2 (-)  (center positive)  
 Female(F)      Male(M)

## AC-to-DC Unregulated Linear Wall Adapters

120VAC @ 60Hz



We specialize in Wall Adapters – Call for additional OEM PRICING.

★ Web Code: UAP



2095154

100095

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 130) for just \$2.50 each. A 100 pc. minimum order applies.

Power

Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male; Polarity ◆	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Curr. (mA)							1	10	50	100
112070	ReliaPro	DBU050022Z5480	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	\$4.95	\$4.49	\$3.95	\$3.59
155601	ReliaPro	DCU050100B3582	5	1000	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA	9.95	8.95	7.95	6.95
1918657	ReliaPro	DDU050100	5	1000	2.5mm x 5.5mm F 2	3.2 x 2.2 x 1.9	Black	6'	0.7	UL/CUL	9.95	8.95	7.95	6.95
237251	Freestyle	DPX350817	6	100	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.95	3.59	3.19	2.89
302439	Dynage	LF06300D-08	6	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.95	4.49	3.95	3.59
2099551	Fuhua	UE-3560300D	6	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.7	Black	6'	0.4	UL/CUL	4.95	4.49	3.95	3.59
119255	ReliaPro	DBU060050Z2251	6	500	2.1mm x 5.5mm F 1	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	6.95	6.25	5.59	4.95
101266	ReliaPro	DBU060050E3860	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
15544	ReliaPro	DBU060050Z8371	6	500	3.5mm M 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
2081431	PEI	DV-0670-B14	6	700	2.1mm x 5.5mm F 2	2.4 x 2.0 x 1.6	Black	6'	0.5	UL/CUL	5.95	5.39	4.79	4.29
147707	ReliaPro	DBU060080C6962	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	7.95	6.95	5.95	4.95
220943	ReliaPro	DCU060120G2401	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	8.95	7.95	6.95	5.95
2095154	Thomson	5-2760	7.5	500	2.1mm x 5.5mm right angle F 2	2.5 x .96 x 1.4	Black	6'	0.4	UL/CUL	4.95	4.49	3.95	3.59
220951	ReliaPro	DCU075100G2291	7.5	1000	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	5.95
248751	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	4.95	4.49	3.95	3.59
280250	ReliaPro	DDU075110G9521	7.5	1100	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	8.95	7.95	6.95	5.95
127511	ReliaPro	DDU080100E2281	8	1000	2.1mm x 5.5mm F 2	3.1 x 2.5 x 2.1	Black	6'	1.3	UL	9.95	8.95	7.95	6.95
355936	ReliaPro	DBU090020	9	200	1.3mm x 3.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.35	4.79	4.39
134025	ReliaPro	DBU090020Z6100	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
2100152	TONT	AP2911	9	200	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.5	Black	6'	0.4	UL/CUL	4.95	4.49	3.95	3.59
100845	ReliaPro	DBU090020E0850	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
2082556	Thomson	5-2616	9	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.4 x 1.4	Black	6'	0.5	UL/CUL	4.95	4.49	3.95	3.59
2082548	Atlinks	5-2617	9	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.4 x 1.4	Gray	6'	0.5	UL/CUL	4.95	4.49	3.95	3.59
100837	ReliaPro	DBU090020Z5490	9	200	3.5mm M 2	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
2082572	Atlinks	5-2677	9	210	2.1mm x 5.5mm right angle F 2	2.2 x 1.4 x 1.4	Black	6'	0.5	UL/CUL	4.95	4.49	3.95	3.59
133891	ReliaPro	DBU090030C112	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
318676	ReliaPro	DBU090030H5790	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.39	4.79	4.39
1949120	Various	AD35-0900300DU	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL	4.95	4.49	3.95	3.59
189238	ReliaPro	DBU090030H4540	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.35	4.79	4.39
202155	ReliaPro	DBU090035F1982	9	350	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	5.95	5.39	4.79	4.29
1954615	Mei Int.	MADA-2131	9	350	2.5 mm M 1	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	4.95	4.49	3.95	2.95
140636	ReliaPro	DCU090040C6351	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	5.95	5.35	4.79	4.25
163628	ReliaPro	DCU090050Z7484	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
100853	ReliaPro	DCU090050E2961	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
147732	ReliaPro	OH-41036DT	9	500	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
236937	ReliaPro	DCU090050G6440	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
1586162	CUI Inc	DPD090050	9	500	3.5mm M 2	2.3 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	5.95	4.95	4.29	3.69
15561	ReliaPro	DCU090050A2011	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	6.95	6.25	5.59	4.95
202180	ReliaPro	DCU090060F2091	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	6.95	6.25	5.59	4.95
100175	ReliaPro	DCU090060Z6652	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
202198	ReliaPro	DCU090080F2221	9	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	5.95
421577	Powerline	0900-12	9	850	2.5mm x 5.5mm F 2	2.7 x 2.1 x 1.7	Black	6'	0.8	UL/CSA	6.95	6.25	5.59	3.95
164929	ReliaPro	DDU090100C2550	9	900	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	6.95	6.25	5.59	4.95
421690	Fisher Price	SA48-29A	9	1000	2.1mm x 5.5mm F 2	3.1 x 2.2 x 1.8	Black	6'	1.1	UL/CSA	6.95	5.95	4.95	3.95
364576	ReliaPro	DDU090100J0490	9	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
227774	GTE	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F 2	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	7.95	6.95	5.95	4.95
2099905	Golden Regent	W48D-H1000	9	1000	2.5mm x 5.5mm F 1 (US plug)	3.2 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
2099913	ENG*	T48-9-1000D3	9	1000	2.5mm x 5.5mm F 1 (Euro plug)	3.2 x 2.3 x 1.9	Black	6'	0.9	CE/TUV	8.95	7.95	6.95	6.25
209921	ENG*	T48-9-1000D4	9	1000	2.5mm x 5.5mm F 1 (UK plug)	3.2 x 2.3 x 1.9	Black	6'	0.9	CE/TUV	8.95	7.95	6.95	6.25
127505	ReliaPro	DDU090100	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.95	8.95	7.95	6.95
1586082	GTE	ADP2108GT (2.5)	9	1000	2.5mm M 2	2.6 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	7.95	6.95	5.95	4.95
15587	ReliaPro	DDU090100Z9081	9	1000	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.95	8.95	7.95	6.95
130526	ReliaPro	DDE090120F3621	9	1200	2.1mm x 5.5mm F 1	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	10.95	9.95	8.95	7.95
143693	ReliaPro	DFU0901500A3040	9	1500	2.1mm x 5.5mm F 2	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	12.95	11.49	9.95	8.95
2082193	Philips	SPA-3545-81	12	100	2.1mm x 5.5mm F 2	2.5 x 1.8 x 1.5	Black	6'	0.5	UL/CSA	7.95	6.95	6.25	4.95
163993	ReliaPro	DBU120020E2291	12	200	2.1mm x 5.5mm right angle F 1	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.49	4.95	4.75	4.29
100095	ReliaPro	DBU120020G0610	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	5.49	4.95	4.75	4.29
158043	ReliaPro	DBU120020E2261	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.95	5.39	4.59	3.95
127976	ReliaPro	DCU120030D7161	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	6.95	6.25	5.59	4.95
2082046	Videx	U/090/	12	300	2.1mm x 5.5mm right angle F 2	2.5 x 1.9 x 1.7	Black	6"	0.6	UL/CSA	6.95	6.25	5.59	4.95
249236	ReliaPro	DBU120030G8970	12	300	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.5	UL/CUL	6.95	6.25	5.59	4.95

\* 240VAC 50Hz    = Limited Quantity Available

More Ac-to-DC Wall Adapters listed on pages 121-123 & 125

 RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197

## AC-to-DC Unregulated Linear Wall Adapters (Continued)

120VAC @ 60Hz

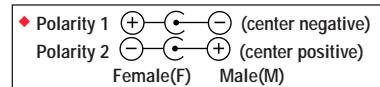


We specialize in Wall Adapters – Call for additional OEM PRICING.

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 130) for just \$2.50 each.  
A 100 pc. minimum order applies.



123158



Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Curr. (mA)							1	10	50	100
190503	ReliaPro	ADA-410	12	400	2.1mm x 5.5mm right angle F 2	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	\$7.49	\$6.95	\$5.65	\$4.95
213575	Ault	53120-000-418	12	400	2.5mm x 5.5mm right angle F 1	2.9 x 2.6 x 1.9	Black	12'	0.7	UL/CSA	7.95	7.29	6.59	5.95
114825	ReliaPro	DCU120050D4740	12	500	Stripped & tinned	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	6.29	4.95	4.39	4.19
15368	ReliaPro	DCU120050Z8698	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.49	5.95	5.39	4.95
102496	ReliaPro	DCU120050E8601	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	7.95	7.29	6.59	5.95
131300	ReliaPro	DCU120050E0251	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	7.95	7.29	6.59	5.95
102277	ReliaPro	DCU120050UE2631	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CUL	7.95	7.29	6.59	5.95
17267	ReliaPro	DCU120050Z5391	12	500	3.5mm M 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	7.95	7.29	6.59	5.95
202201	ReliaPro	DCU120060F2131	12	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	7.95	7.29	6.59	5.95
202219	ReliaPro	DCU120070F2142	12	700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	8.95	7.95	7.29	6.49
117479	ReliaPro	DDU120080E6451	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	8.95	7.95	7.29	6.49
129331	ReliaPro	DDU120080F2412	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	8.95	7.95	7.29	6.49
121232	ReliaPro	DDU120080F2271	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.95	7.25	5.95	5.45
2099884	DVE	DV1280-3	12	1000	2.1mm x 5.5mm F 2	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	8.95	7.95	6.95	6.25
100870	ReliaPro	DDU120100Z7974	12	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 1.9	Black	6'	0.9	UL/CSA	9.95	8.95	7.95	7.29
105478	ReliaPro	DDU120100Z2993	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.95	8.95	7.95	7.29
15392	ReliaPro	DDU120100E7302	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.95	8.95	7.95	7.29
196779	ReliaPro	DDU120120G0031	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
313226	ReliaPro	DFU120150H4490	12	1500	Stripped & tinned (w/ on-off switch)	3.4 x 2.6 x 2.2	Black	8'	1.5	UL	14.95	13.49	11.95	10.95
203036	ReliaPro	DDU120150H4530	12	1500	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	14.95	13.49	11.95	10.95
136881	ReliaPro	DDU120150K1960	12	1500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	14.95	13.49	11.95	10.95
1928151	Leader	481215003CT	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.3 x 2.1	Black	6'	1.5	UL/CUL	12.95	11.49	9.95	8.95
101291	ReliaPro	DDU120150	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	14.95	13.49	11.95	10.95
2077626	Qualcomm	TXACA036	13	1000	2.5mm x 5.5mm F 2 (Switching)	2.7 x 2.4 x 1.6	Black	6'6"	0.6	UL/CE	10.95	9.95	8.95	7.95
308099	ReliaPro	DDU135100H3210	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
212812	ReliaPro	DBU140020F6022	14	200	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	6.95	6.25	5.59	4.95
212821	ReliaPro	DBU140030F6042	14	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	7.95	7.29	6.59	5.95
129314	Various	DV-1250	14	360	2.5mm x 5.5mm right angle F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	6.95	5.95	4.95	3.95
123932	ReliaPro	DDU140070Z7470	14	700	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.95	7.95	6.95	6.25
202260	ReliaPro	DDU140100F3270	14	1000	2.1mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
190001	ReliaPro	DCU150050E3021	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.95	7.29	6.59	5.95
189982	ReliaPro	DCU150050E3031	15	500	2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.95	7.29	6.59	5.95
155803	ReliaPro	DDU150060E5822	15	600	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	8.95	7.95	7.29	6.49
203502	ReliaPro	DDU150090F4480	15	900	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
151992	ReliaPro	DDU150100E8181	15	1000	2.1mm x 5.5mm F 1	3.1 x 2.0 x 1.9	Beige	6'	1.5	UL/CSA	8.95	7.95	6.95	5.95
191652	ReliaPro	DDU150100D7051	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
681563	Ault	P48151000A020G	15	1000	2.5mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.2	UL/CSA	9.95	8.95	7.95	6.95
162317	ReliaPro	DDU165050J19910	16	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	9.95	8.95	7.95	7.29
217541	NiteRider	FE411616C030	16.8	300	2.5mm x 5.5mm F 2	3.1 x 2.1 x 1.6	Black	6'	0.6	UL/CUL	6.95	6.25	5.59	4.95
2081713	DVE	DV-1790	17	900	2.5mm x 5.5mm F 2	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CSA	6.95	6.25	5.59	4.95
181729	ReliaPro	DDU180025F8680	18	250	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL	6.95	6.25	5.59	4.95
217568	NiteRider	FE412618P040	18	400	2.5mm x 5.5mm F 2 (w/ LED Indicator)	3.5 x 2.1 x 1.6	Black	6'	0.8	UL/CUL	6.95	6.25	5.59	4.95
163272	ReliaPro	DDU180050C1031	18	500	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	8.95	7.95	7.29	6.49
206958	ReliaPro	DDU180100H4551	18	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	9.95	8.95	7.95	7.29
102285	ReliaPro	DDU240040Z7860	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.95	7.95	7.29	6.49
163635	ReliaPro	DDU240050C1981	24	500	2.1mm x 5.5mm F 1	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
191556	ReliaPro	DDU240050E5852	24	500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
139088	ReliaPro	DDU240050E9160	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
1918930	ReliaPro	DDU240060L260	24	600	2.1mm x 5.5mm F 2	2.9 x 2.2 x 1.9	Black	6'	0.4	UL/CUL	10.95	9.95	8.95	7.95
168495	ReliaPro	DFU240080J180	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	11.95	10.95	9.95	8.95
220960	ReliaPro	DFU240100G2300	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	14.95	13.49	11.95	9.95
249121	ReliaPro	DFU240120/G8520	24	1150	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	16.95	14.95	13.49	11.95
249113	ReliaPro	DFU240120/G8510	24	1150	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	16.95	14.95	13.49	11.95
199523	ReliaPro	DDU300050E9340	30	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	9.95	8.95	7.95	7.29
215095	ReliaPro	MW48-4800250	48	250	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	8.95	7.95	7.29	6.49
230640	ReliaPro	MW57-4800500-2.1	48	500	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	10.95	9.95	8.95	7.95
215109	ReliaPro	MW57-4800500	48	500	2.5mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	9.95	8.95	7.95	6.95
15309	ReliaPro	900-051	3, 4.5, 6, 7.5, 9, 12	1000	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female 120VAC 2.5, 3.5 Male, 9V battery snap (LED ind.)	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	9.95	8.95	7.95	6.95
123158	ReliaPro	900-100	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female 110-220VAC 2.5, 3.5 Male, 9V battery snap (LED ind.)	3.7 x 2.2 x 2.5	Black	6'	0.9	—	10.95	9.95	8.95	7.95

Blue Part No. = Limited Quantity Available

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

# AC-to-DC Regulated & Unregulated Table-Top Power Supplies

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## AC-to-DC Regulated & Unregulated Linear & Switching Table-Top Power Supplies

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 130) for just \$2.50 each. A 100 pc. minimum order applies.



Part No.	Manufacturer	Product No.	Output Volts (VDC)/ Current (A)	Output Connector ID x OD/F = female; M = male; Polarity ♦	Input VAC@Hz	Output Power (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
2-Wire AC Input – Unregulated Linear Table-Top															★ Web Code: TBE
190051	APS	APS48EA114	+7/1.5	2.5mm x 5.5mm F 2	120@60	10	No	3.4 x 2.3 x 1.9	6'/6"	1.9	UL/CUL	\$6.95	\$6.25	\$4.95	\$3.95
243109	Regal	JK-91001-N	+9/1.0	Stripped & Tinned	120@60	9	No	3.3 x 2.2 x 1.9	6'/6"	1.2	UL/CSA	6.95	6.25	4.95	3.95
2081941	Toshiba	AD-121ADT	+12/1.0	2.1mm x 5.5mm F 2	120@60	12	No	3.2 x 2.2 x 1.9	6'/6"	1.3	UL/CUL	7.95	6.95	6.25	5.59
140880	ReliaPro	DC1215ST	+12/1.5	Stripped & Tinned	120@60	18	No	3.1 x 2.1 x 1.9	6'/6"	1.5	UL	11.95	10.95	9.95	8.95
143714	Horizon+	DC1220F1	+12/2.0	2.1mm x 5.5mm F 2	120@60	24	No	3.8 x 2.8 x 2.3	6'/6"	2.2	CUL	13.95	12.49	10.95	9.95
143722	ReliaPro	DC1220F5	+12/2.0	2.5mm x 5.5mm F 2	120@60	24	No	3.8 x 2.8 x 2.3	6'/6"	2.2	UL/CUL	14.95	13.49	11.95	10.95
143731	ReliaPro	DC1220M3	+12/2.0	3.5mm M 2	120@60	24	No	3.8 x 2.8 x 2.3	6'/6"	1.9	UL/CUL	14.95	13.49	11.95	10.95
139096	ReliaPro	DC2412F1	+24/1.2	2.1mm x 5.5mm F 2	120@60	29	No	4.4 x 3.1 x 2.6	6'/6"	2.5	—	14.95	13.49	11.95	10.95
1953815	SR Components	DC24-1.2	+24/1.2	2.1mm x 5.5mm F 2	120@60	29	No	4.5 x 3.4 x 2.6	5'/6"	0.7	UL	12.95	11.95	10.49	8.95
173665	Skynet	DND-3005	+30/0.5	2.5mm x 5.5mm F 2	120@60	15	No	3.0 x 2.5 x 2.2	5'9/32"	1.4	UL/CUL	6.95	6.25	5.95	4.95
2-Wire AC Input – Regulated Linear Table-Top															★ Web Code: CEM
664261	Intermec	062035	+5/0.75	4-pin DIN M	120@60	3.75	No	4.4 x 2.5 x 2.0	6'/6"	1.6	UL/CSA	\$8.95	\$7.95	\$6.95	\$6.25
2099569	JEC	57-1607-U4D	+16/0.7	2.5mm x 5.5mm F 2	120@60	19	No	3.6 x 2.7 x 3.6	6'/6"	1.3	UL	8.95	7.95	6.95	6.25
174845	ReliaPro	DCR2410F12	+24/1	2.1mm x 5.5mm F 2	120@60	24	No	4.4 x 3.0 x 2.5	6'/6"	2.6	UL	17.95	15.95	14.49	12.95
2-Wire AC Input – Regulated Switching Table-Top – Single Output															★ Web Code: DDZ
153752	Cisco	34-0912-02	+5/2.5	2.5mm x 5.5mm F 2	100-240@50-60	13	No	3.5 x 2.2 x 1.2	6'/1"	0.5	UL/CUL/TUV/CE	\$11.95	\$10.49	\$8.95	\$7.95
1586242	Phihong	PSAA15W-050-R	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	15	No	3.2 x 2.0 x 1.2	6'/1"	—	UL/CUL/TUV/CE	15.95	14.49	12.95	11.49
1940299	Mean Well	GS18B05-P1J	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	4'/1"	0.5	UL/CSA/TUV/CEC	15.95	14.49	13.49	12.49
155205	ITE Power	SYS1102-2005	+5/4.0	2.1mm x 5.5mm F 2	100-240@50-60	20	Yes	4.0 x 2.0 x 1.3	3'6"/1"	0.7	UL/CUL/TUV/CE	13.95	11.95	9.95	8.95
1940483	Mean Well	GS25B05-P1J	+5/4.0	2.1mm x 5.5mm F 2	100-240@50-60	20	Yes	3.1 x 2.1 x 1.3	4'/1"	0.5	UL/CSA/TUV/CEC	16.49	14.95	13.95	12.95
377925	Mean Well	P30B-1P2JU	+5/4.0	2.1mm x 5.5mm F 2	90-264@47-63	20	Yes	4.3 x 2.6 x 1.4	6'/6"	0.7	UL/CSA/TUV/CE	21.95	19.95	18.95	17.95
380621	Mean Well	ES25B05-P1MU	+5/4.0	2.5mm x 5.5mm F 2	90-264@47-63	20	Yes	3.1 x 2.1 x 1.3	6'/6"	0.5	UL/CSA/TUV/CE	18.95	16.95	15.49	14.49
1940301	Mean Well	GS18B07-P1J	+7.5/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	6'/1"	0.5	UL/CSA/TUV/CEC	15.95	14.49	13.49	12.49
1707067	Mean Well	ES25B07-P1J	+7.5/2.93	2.1mm x 5.5mm F 2	100-240@50-60	22	Yes	3.1 x 2.1 x 1.3	6'/1"	0.4	UL/CUL/TUV/CE	10.95	9.49	8.49	7.49
195806	ReliaPro	DCR920F12	+9/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	4.2 x 2.6 x 1.4	6'/6"	0.9	UL/CUL/TUV/CE	21.95	19.95	18.95	17.95
1940310	Mean Well	GS18B09-P1J	+9/2.0	2.1mm x 5.5mm F 2	90-264@47-63	18	Yes	3.1 x 2.1 x 1.3	6'/1"	0.5	UL/CUL/TUV/CE	15.95	14.49	13.49	12.49
195768	ReliaPro	DCR920F52	+9/2.0	2.5mm x 5.5mm F 2	100-240@50-60	18	Yes	4.3 x 2.6 x 1.4	6'/6"	0.9	UL/CUL/TUV/CE	21.95	19.95	18.95	17.95
380681	Mean Well	ES25B09-P1MU	+9/2.78	2.5mm x 5.5mm F 2	90-264@47-63	25	Yes	3.1 x 2.1 x 1.3	6'/6"	0.5	UL/CSA/TUV/CE	18.95	16.95	15.49	14.49
379787	Mean Well	P30B-2P2MU	+9/2.89	2.5mm x 5.5mm F 2	90-264@47-63	26	Yes	4.3 x 2.6 x 1.4	6'/6"	0.7	UL/CSA/TUV/CE	19.95	18.95	17.95	16.95
1940213	EDAC, Inc.	EA10302	+9/3.3	2.1mm x 5.5mm F 2	100-240@50-60	30	Yes	3.9 x 1.8 x 1.2	4'/1"	0.5	UL/CUL/TUV/CE	14.95	13.49	11.95	10.95
1950905	APS	AD715U-1121	+12/1.2	2.5mm x 5.5mm F 2	100-240@50-60	15	Yes	3.7 x 2.1 x 1.3	6'/1"	0.5	UL/CUL/TUV/CE	11.95	10.95	9.95	8.95
191353	Delta	ADP-15FB	+12/1.25	2.1mm x 5.5mm F 2	100-240@50-60	15	No	3.5 x 2.3 x 1.2	6'/1"	0.5	UL/CE	12.95	11.49	9.95	8.95
1940328	Mean Well	GS18B12-P1J	+12/1.5	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.1 x 2.1 x 1.3	6'/6"	0.5	UL/CSA/CE/CEC	15.95	14.49	13.49	12.49
2099868	DVE	DSA-0421S	+12/2.0	2.1mm x 5.5mm F 2	100-240@50-60	24	Yes	3.7 x 2.2 x 1.3	6'/6"	0.4	UL/CUL/TUV/CE	19.95	17.95	15.95	13.95
1537555	APD	DA-24B12	+12/2.0	2.5mm x 5.5mm F 2	100-240@47-63	24	No	3.6 x 2.2 x 1.3	6'/1"	0.4	UL/CUL/TUV/CE	19.95	17.95	15.95	13.95
1942155	Jentec	JTA0210P	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	Yes	4.3 x 2.0 x 1.2	4'/1"	0.6	UL/CUL/TUV/CE	15.95	13.95	11.95	10.95
401042	ReliaPro	ADPV16	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	No	3.9 x 1.8 x 1.2	4'/1"	0.5	UL/CUL/TUV/CE	22.95	20.49	18.95	16.95
220442	ReliaPro	SL120300RT	+12/3.0	2.5mm x 5.5mm F 2†	100-240@50-60	36	Yes	4.3 x 2.0 x 1.2	6'/1"	0.6	UL/CUL/TUV/CE	24.95	22.49	19.95	17.95
2099876	Lishin Int.	LSE9802A 1240	+12/3.33	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	3.7 x 2.2 x 1.3	5'/6"	0.4	UL/CSA/TUV/CE	22.95	20.49	18.95	16.95
1940336	Mean Well	GS18B15-P1JT	+15V/1.2	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.1 x 2.1 x 1.3	6'/6"	0.5	UL/CSA/CE/CEC	15.95	14.49	13.49	12.49
1537070	Phihong	PSA15W-150R	+15/1.25	2.5mm x 5.5mm F 2	100-240@47-63	15	No	4.3 x 2.6 x 1.0	6'/1"	0.8	UL/CUL/TUV/CE	17.95	16.49	14.95	13.49
1940521	Mean Well	GS25B15-P1JT	+15/1.66	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.1 x 2.1 x 1.3	6'/6"	0.5	UL/CSA/CEC	18.95	16.95	14.95	13.49
1940539	Mean Well	GS25B18-P1J	+18/1.38	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6'/1"	0.5	UL/CSA/TUV/CEC	18.95	16.95	14.95	13.49
1940352	Mean Well	GS18B24-P1J	+24/0.75	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	6'/1"	0.5	UL/CSA/TUV/CEC	15.95	14.49	13.49	12.49
1940547	Mean Well	GS25B24-P1JT	+24/1.04	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6'/1"	0.5	UL/CSA/TUV/CE/CEC	16.49	14.95	13.49	12.49
221613	Mean Well	P30B-6P2JT	+24/1.12	2.1mm x 5.5mm F 2	100-240@50-60	27	Yes	4.3 x 2.6 x 1.4	6'/6"	0.8	UL/CUL/TUV/CE	26.95	24.95	22.95	20.49
1940230	EDAC, Inc.	EA1030D2	+24/1.25	2.1mm x 5.5mm F 2	100-240@50-60	30	Yes	3.9 x 1.8 x 1.2	4'/1"	0.5	UL/CUL/TUV/CE	19.95	17.95	15.95	13.95
229843	Phihong	PSAA60W-240	+24/2.5	2.1mm x 5.5mm F 2	100-240@47-63	60	No	5.1 x 2.4 x 1.3	4'/1"	0.5	UL/CSA/CEC	36.95	33.95	31.95	28.95
1707075	Mean Well	ES18B28-P1J	+28/0.64	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	6'/1"	0.5	UL/CUL/TUV/CE	8.95	7.95	6.95	5.95
205911	Delta	ADP-25HB	+30/0.83	2.1mm x 5.5mm F 2	100-125@50-60	25	No	3.5 x 2.4 x 1.2	6'/7"	1.1	UL/CUL	12.95	11.49	9.95	8.95

\* See accessory table-top power cord chart on page 129 when AC cord needed; refer to <sup>1</sup>, <sup>2</sup> or <sup>3</sup> in "Cord (DC/AC)" column above for correct power cord

† Right Angle

3-Wire Regulated Table-Top Power Supplies on Next Page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## AC-to-DC Regulated Linear & Switching Table-Top Power Supplies

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 130) for just \$2.50 each. A 100 pc. minimum order applies.

See page 134 for  
International Power Cords

689661



309876



221488



1950884



1586146



◆ Polarity 1 (+) (center negative)  
Polarity 2 (-) (center positive)  
Female(F) Male(M)



Part No.	Manufacturer	Manufacturer Part No.	Output	Output Connector	Input	Output Power	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
			Volts (VDC)/Current (A)	ID x OD mm/Female/Male: Polarity◆								1	10	50	100
<b>2-Wire AC Input – Regulated Switching Table-Top – Single Output (Continued)</b>															★ Web Code: DDZ
1940379	Mean Well 	GS18B48-P1JT	+48/0.37	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/CEC	\$15.95	\$14.49	\$13.49	\$12.49
1707139	Mean Well 	ES25B48-P1J	+48/0.52	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6'1"	0.4	UL/CUL/TUV/CE	19.95	17.95	15.95	14.49
380809	Mean Well 	ES25B48-P1MU	+48/0.52	2.5mm x 5.5mm F 2	90-264@47-63	25	Yes	3.1 x 2.1 x 1.3	6'6"	0.5	UL/CSA/TUV/CE	18.49	16.49	14.49	12.95
<b>2-Wire AC Input – Regulated Switching Table-Top – Triple Output</b>															★ Web Code: DDZ
196138	DVE	DSA-0283A	+5/1, +12/1.49 -5/0.43	5-pin DIN M	100-240@47-63	23	No	4.9 x 2.7 x 1.5	6'1"	0.8	UL/CSA/TUV	\$7.95	\$6.95	\$5.95	\$4.95
<b>3-Wire AC Input – Regulated Linear Table-Top – Double &amp; Quad Output</b>															★ Web Code: CEM
689661	Regal	R1JC-5500	+5/1; -5/0.5	5-pin DIN M	120@60	30	No	5.1 x 3.6 x 2.8	6'6"	2.7	UL	\$9.95	\$8.95	\$7.95	\$6.95
689653	Regal	RJM-551228	+5/0.9; -5/0.2 +12/62; -28/16	6-pin DIN M	120@60	55	No	5.1 x 3.6 x 2.8	6'6"	1.3	CUL	11.95	10.49	9.49	8.49
<b>3-Wire AC Input – Regulated Switching Table-Top – Single Output</b>															★ Web Code: DDZ
1928863	DVE	DSA0210D-03	+3.3/4.0	2.5mm x 5.5mm F 2	100-240@50-60	13	No	3.9 x 2.0 x 1.4	4'2	0.5	UL/CUL/TUV/CE	\$12.95	\$10.95	\$9.49	\$8.49
<b>2115549</b>	Sino-American	217-03814	+5/0.5	2.1mm x 5.5mm F 2	100-240@50-60	2.5	No	3.1 x 2.0 x 1.2	6'2	0.4	UL/CSA	8.95	7.95	6.95	5.95
308700	Be-Well	ZD0001F	+5/1.0	2.1mm x 5.5mm F 2†	100-240@50-60	5	No	4.2 x 2.0 x 1.6	6'2	0.4	UL/CUL/TUV/CE	9.95	8.95	7.95	6.95
1918737	Magtech	SPU15A-102	+5/1.0	2.5mm x 5.5mm F 2	100-240@47-63	5	Yes	3.6 x 1.5 x 1.4	6'2	0.4	UL/CUL/TUV/CE	9.95	8.95	7.95	6.95
1952169	Go Forward	91-58414	+5/2.0	1.3mm x 3.5mm F 2	100-240@50-60	10	No	2.6 x 1.9 x 1.3	6'2	0.4	UL/CUL/TUV/CE	9.95	8.95	7.95	6.95
309876	Go Forward	GI12-US0520	+5/2.0	2.1mm x 5.5mm F 2	100-240@50-60	10	No	2.6 x 1.9 x 1.3	6'2	0.4	UL/CUL/TUV/CE	10.95	9.95	8.95	7.95
196218	GlobTek	GT-21089-1305T3	+5/2.0	2.1mm x 5.5mm F 2	120-240@50-60	10	No	3.4 x 1.9 x 1.3	6'2	0.4	UL/CUL/TUV/CE	15.95	14.49	12.95	11.95
1955642	Delta	ADP-105B	+5/2.0	2.1mm x 5.5mm F 2	100-240@50-60	10	No	3.3 x 1.9 x 1.2	6'2	0.3	UL/CUL/CE	10.95	9.95	7.95	7.95
1954236	Mean Well 	GS15A-1P1J	+5/2.4	2.1mm x 5.5mm F 2	90-264@47-63	12	No	3.9 x 2.3 x 1.3	6'2	0.4	UL/CUL/TUV/CEC	17.95	15.95	14.49	13.49
<b>2115506</b>	OEM	SYS1089-1305-T3	+5/2.6	2.1mm x 5.5mm F 2	100-240@50-60	13	No	3.4 x 1.8 x 1.3	6'2	0.3	UL/CUL/CE	12.95	11.49	9.95	8.95
695244	DVE	DSA-0151D-05	+5/2.4	2.5mm x 5.5mm F 2	100-240@47-63	10	No	3.9 x 2.0 x 1.4	6'2	0.5	UL/CUL/TUV/CE	14.95	13.49	11.95	9.95
1940387	Mean Well 	GS18A05-P1J	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	15	Yes	3.7 x 2.1 x 1.4	4'2	0.5	UL/CUL/TUV/CE/CEC	18.49	16.49	14.49	12.95
1940571	Mean Well 	GS25A05-P1J	+5/4.0	2.1mm x 5.5mm F 2	100-240@50-60	20	Yes	3.7 x 2.1 x 1.4	4'2	0.5	UL/CUL/TUV/CEC	19.95	18.95	16.49	14.95
1952337	Mean Well 	GS40A05-P1JU	+5/5.0	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	4.9 x 2.0 x 1.2	4'2	0.7	UL/CSA/TUV/CEC	34.95	31.49	27.95	24.95
320081	GlobTek 	TR9CA600LCP-Y	+5/6.0	2.5mm x 5.5mm F 2	100-240@50-60	30	Yes	4.7 x 2.4 x 1.3	6'2	0.7	UL/CUL/TUV/CE	39.95	35.95	31.95	28.95
221488	Mean Well 	SPU50-1U	+5/10.0	5-pin DIN M	100-240@50-60	50	Yes	5.7 x 3.0 x 1.7	6'6"	2.0	UL/CUL/TUV/CE	54.95	49.95	46.95	43.95
379751	Mean Well 	P30A-1-P2MU	+7.5/3.06	2.5mm x 5.5mm F 2	90-264@47-63	23	Yes	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CSA/TUV/CE	21.95	19.95	18.95	17.95
206529	Mean Well 	GS40A07-P1J	+7.5/5.34	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.9 x 2.0 x 1.3	6'6"	1.5	UL/CUL/TUV/CE	27.95	25.95	24.49	22.95
1940408	Mean Well 	GS18A09-P1JU	+9/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
211027	Mean Well	KA52B25-MODU	+9/2.78	2.1mm x 5.5mm F 2	100-240@47-63	25	No	4.2 x 2.6 x 1.5	6'1"	0.9	CSA/TUV/CE	11.95	9.95	8.95	7.95
1952361	Mean Well 	GS60A09-P1J	+9/6.0	2.1mm x 5.5mm F 2	90-264@47-63	54	Yes	4.9 x 2.0 x 1.3	4'2	0.7	UL/CUL/TUV/CEC	28.95	26.95	24.95	22.95
1955651	ELPAC	W0812	+12/0.67	2.5mm x 5.5mm F 2	100-240@47-63	8	No	3.3 x 1.9 x 1.2	6'6"	0.8	UL/CUL/TUV/CE	10.95	9.95	8.95	7.95
1928417	Mean Well	GI12-US1210	+12/1.10	2.1mm x 5.5mm F 2	100-240@50-60	12	No	2.9 x 1.9 x 1.3	6'2	0.3	UL/CSA/TUV/CE	14.95	13.49	11.95	10.95
1954244	Mean Well 	GS15A-3P1J	+12/1.25	2.1mm x 5.5mm F 2	90-264@47-63	15	No	3.9 x 2.3 x 1.3	6'2	0.4	UL/CUL/TUV/CEC	17.95	15.95	14.49	12.95
1940416	Mean Well 	GS18A12-P1JU	+12/1.5	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'6"	0.5	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
616216	Sinotech 	MPC1200150	+12/1.5	2.5mm x 5.5mm F 1	100-240@50-60	18	No	3.4 x 2.2 x 1.3	6'2	0.5	UL/CUL/CE/CEC	15.95	13.95	12.49	10.95
1928425	ITE	NL20-120160-11	+12/1.6	2.1mm x 5.5mm F 2†	100-240@50-60	19	Yes	4.3 x 1.9 x 1.2	6'2	0.2	UL/CSA/TUV/CE	13.95	12.49	10.95	9.95
1537432	Eng Electric	EPA-201D-12	+12/1.66	2.1mm x 5.5mm F 2	100-240@50-60	20	Yes	4.3 x 2.4 x 1.3	6'2	0.2	UL/CSA/TUV/CE	13.95	12.49	10.95	9.95
379779	Mean Well 	ES25A12-P1JU	+12/2.08	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CSA/TUV/CE	17.95	15.95	13.95	12.49
1940601	Mean Well 	GS25A12-P1JU	+12/2.08	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	4'6"	0.5	UL/CUL/TUV/CEC	18.95	16.95	14.95	13.49
380534	Mean Well 	ES25A12-P1MU	+12/2.08	2.5mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CSA/TUV/CE	19.95	17.95	15.95	13.95
1950884	APS	AD725U-1120A	+12/2.1	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.8 x 2.1 x 1.3	6'2	0.5	UL/CUL/TUV/CE	14.95	13.49	11.95	10.95
1918690	First Vision	SA06H12-A	+12/2.5	2.5mm x 5.5mm F 2	100-240@50-60	30	Yes	3.7 x 2.0 x 1.4	4'2	0.6	UL/CUL/TUV/CE	10.95	9.95	8.95	7.95
1942147	Jentec	SA06H1217-A	+12/2.5	2.5mm x 5.5mm F 2	100-240@50-60	30	Yes	3.7 x 2.0 x 1.4	6'2	0.6	UL/CUL/TUV/CE	12.95	10.95	9.95	8.95
1586146	EDAC, Inc. 	EA10301	+12/3.0	2.5mm x 5.5mm F 2	100-240@50-60	36	Yes	3.8 x 1.8 x 1.2	6'2	0.7	UL/CUL/TUV/CE	14.95	13.49	11.95	10.95
155214	Mean Well 	P40A-3P2JU	+12/3.33	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CUL/TUV	39.95	35.95	32.95	29.95
1708625	HiPro	HP02040043	+12/3.33	2.5mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.4 x 1.2	5'	0.7	UL/CUL/TUV/CE/CEC	17.95	15.95	13.95	12.49
297693	Mean Well 	P40A-3P2MU-R	+12/3.33	2.5mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CUL/TUV/CE	31.95	29.95	27.95	25.95
1952345	Mean Well 	GS40A12-P1J	+12/3.4	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.3	4'2	0.7	UL/CUL/TUV/CEC	22.95	20.95	18.95	17.49
1940264	EDAC, Inc. 	EA1050E	+12/3.5	2.1mm x 5.5mm F 2	100-240@50-60	42	Yes	4.7 x 2.4 x 1.4	4'2	0.6	UL/CUL/TUV/CE	22.95	20.95	18.95	17.49
1940272	EDAC, Inc. 	EA1050C	+12/4.16	2.1mm x 5.5mm F 2	100-240@50-60	50	Yes	4.7 x 2.4 x 1.4	4'2	0					

# AC-to-DC Regulated Switching Table-Top Power Supplies

3 LEVELS OF SAVINGS  
**NAME BRANDS** **HOUSE BRANDS** **FACTORY OVERRUN**

Jameco carries the full line of Mean Well Power products. For additional products visit [www.Jameco.com/meanwellproducts](http://www.Jameco.com/meanwellproducts)

## AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 130) for just \$2.50 each. A 100 pc. minimum order applies.

See page 134 for  
International Power Cords



◆ Polarity 1 (+) (center negative)  
 Polarity 2 (-) (center positive)  
 Female(F) Male(M)

Female (F)

Male (M)

DIN (M)



CE



Part No.	Manufacturer	Manufacturer Part No.	Output Volts (VDC) Current (A)	Output Connector ID x OD mm Female/Male; Polarity ◆	Input VAC@Hz	Output Power (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
<b>3-Wire AC Input – Regulated Switching Table-Top – Single Output (Continued)</b>															* Web Code: DDZ
2100216	BESTEC	BPA-501-12	+12/4.2	2.5mm x 5.5mm F 2	100-240@50-60	50	Yes	6.5 x 2.8 x 1.8	5' / 2	0.7	UL/CSA/TUV	\$34.95	\$31.49	\$27.95	\$24.95
1586314	Phihong	PSC60M-120-R	+12/5.0	2.1mm x 5.5mm F 2	100-240@50-60	60	No	5.1 x 2.4 x 1.3	4' / 6'	0.7	UL/CUL/TUV/CE	44.95	40.95	36.95	32.95
1952370	Mean Well	GS60A12-P1J	+12/5.0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 1.9 x 1.2	4' / 2	0.7	UL/CUL/TUV/CEC	28.95	26.95	24.95	22.95
155231	Mean Well	SPU50-3U	+12/5.0	2.1mm x 5.5mm F 2	100-240@47-63	60	Yes	5.7 x 3.0 x 1.7	6' / 6'	1.3	UL/CSA/TUV	49.95	44.95	39.95	35.95
2099420	Sparkle Power	FSP060-DBAB1	+12/5.0	2.5mm x 5.5mm F 2	100-240@50-60	60	Yes	4.3 x 2.4 x 1.2	5' / 2	0.5	UL/CUL/TUV/CEC	32.95	29.95	26.95	23.95
2078291	Mean Well	GS90A12-P1M	+12/6.67	2.5mm x 5.5mm F 2	100-240@50-60	80	Yes	5.7 x 2.3 x 1.3	4' / 2	0.9	UL/CUL/TUV/CEC	44.49	41.49	38.95	36.49
221429	Mean Well	U65S105-P2JU	+12/6.7	2.1mm x 5.5mm F 2	100-240@50-60	80	Yes	6.6 x 3.1 x 1.8	6' / 6'	2.0	UL/CUL/TUV/CE	64.95	59.95	54.95	49.95
1940846	Mean Well	AS-120P-12	+12/8.4	4-pin DIN M	100-240@50-60	100	No	6.6 x 2.6 x 1.4	4' / 2	1.2	UL/CUL/TUV/CE	58.95	54.95	51.95	48.95
2099294	Mean Well	GS220A12-R7B	+12/15	4-pin DIN M	90-264/127-370@47-63	180	Yes	8.3 x 3.4 x 1.8	3.3' / 2	2.4	UL/CUL/TUV/CE/PFC	129.95	116.95	104.95	94.95
1954261	Mean Well	GS15A-4P1J	+15/1.0	2.1mm x 5.5mm F 2	100-240@50-60	15	No	3.1 x 2.3 x 1.3	6' / 2	0.5	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
1940432	Mean Well	GS18A15-P1JU	+15/1.2	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6' / 6'	0.5	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
1940619	Mean Well	GS25A15-P1J	+15/1.66	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6' / 2	0.5	UL/CUL/TUV/CEC	16.49	14.95	13.49	12.49
243012	Mean Well	P30A-41P2JU	+15/1.8	2.1mm x 5.5mm F 2	100-240@50-60	27	Yes	4.2 x 2.6 x 1.4	6' / 6'	0.8	UL/CUL/TUV/CE	24.95	22.49	19.95	18.49
221577	Mean Well	GS40A15-P1J	+15/2.67	2.1mm x 5.5mm F 2	90-264@50-60	40	Yes	4.9 x 2.0 x 1.3	6' / 2	0.8	UL/CUL/TUV/CE/CEC	25.95	24.49	22.95	21.49
1954295	Mean Well	GS60A15-P1J	+15/4.0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	4' / 2	0.7	UL/CUL/TUV/CE	28.95	26.95	24.95	22.95
2078320	Mean Well	GS90A15-P1M	+15/6.0	2.5mm x 5.5mm F 2	100-240@50-60	90	Yes	5.7 x 2.3 x 1.3	3.9' / 2	0.8	UL/CUL/TUV/CEC	44.49	41.49	38.95	36.49
1940854	Mean Well	AS-120P-15	+15/6.7	4-pin DIN M	100-240@50-60	100	No	6.6 x 2.6 x 1.4	4' / 2	1.2	UL/CUL/TUV/CE	58.95	54.95	51.95	48.95
243046	Mean Well	P66A-5P2JU	+18/3.66	2.1mm x 5.5mm F 2	100-240@50-60	66	Yes	5.8 x 3.0 x 1.7	6' / 6'	1.2	UL/CUL/TUV/CE	44.95	40.95	36.95	32.95
148267	AcBell	AP13AD02	+19/3.42	2.5mm x 5.5mm F 2†	100-240@50-60	65	No	4.2 x 1.8 x 1.1	6' / 6'	0.8	UL/CUL/TUV/CE	36.95	32.95	29.95	26.95
2099411	Sparkle Power	FSP090-DMCBI	+19/4.74	7ea. R/A plugs F 2††	100-240@50-60	90	No	5.3 x 2.3 x 1.3	6' / 5'	0.7	UL/CUL/TUV/CEC	59.95	53.95	47.95	42.95
2097671	Hi-Capacity	AC-C10K	+19/8.0	2.5mm x 5.5mm F 2	100-240@50-60	120	Yes	6.6 x 2.4 x 1.5	4' / 6'	1.0	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95
1954279	Mean Well	GS15A-6P1J	+24/0.62	2.1mm x 5.5mm F 2	90-264@47-63	12	No	3.9 x 2.3 x 1.3	6' / 2	0.4	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
1940459	Mean Well	GS18A24-P1J	+24/0.75	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6' / 2	0.5	UL/CUL/TUV/CEC	15.95	14.49	13.49	12.49
1940635	Mean Well	GS25A24-P1JU	+24/1.04	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6' / 6'	0.5	UL/CUL/TUV/CEC	18.95	16.95	14.95	13.49
380577	Mean Well	ES25A24-P1MU	+24/1.04	2.5mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6' / 6'	0.6	UL/CSA/TUV/CE	19.95	17.95	15.95	13.95
229026	Phihong	PSC30U-240-R	+24/1.25	2.1mm x 5.5mm F 2	100-240@50-60	30	No	4.5 x 2.4 x 1.4	6' / 2	0.5	UL/CUL/TUV/CE	26.95	24.95	22.95	21.49
1952353	Mean Well	GS40A24-P1J	+24/1.67	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.2	6' / 2	0.7	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
1940281	EDAC, Inc.	EA1050D	+24/2.08	2.1mm x 5.5mm F 2	100-240@50-60	50	Yes	4.7 x 2.4 x 1.4	4' / 2	0.6	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
1942788	EDAC, Inc.	EA1050B240	+24/2.5	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	4.8 x 2.4 x 1.4	6' / 2	1.8	UL/CUL/TUV/CE/CEC	24.95	22.49	19.95	17.95
1952214	Mean Well	GS60A24-P1J	+24/2.5	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.3	6' / 2	0.7	UL/CUL/TUV/CEC	28.95	26.95	24.95	22.95
161606	Mean Well	SPU50-6U-R	+24/2.5	2.1mm x 5.5mm F 2	100-240@47-63	60	Yes	5.6 x 2.9 x 1.6	6' / 6'	1.3	UL/CSA/TUV	49.95	44.95	39.95	35.95
1950913	EDAC, Inc.	EA1050B-240-1	+24/2.5	2.5mm x 5.5mm F 2	100-240@50-60	60	Yes	4.8 x 2.4 x 1.4	6' / 2	1.8	UL/CUL/TUV/CE	29.95	26.95	24.95	22.95
355056	ReliaPro	JR-TT-66-24	+24/2.75	2.1mm x 5.5mm F 2	100-240@50-60	66	Yes	5.8 x 3.0 x 1.7	6' / 2	1.2	UL/CUL/TUV/CE	44.95	40.95	36.95	32.95
2078338	Mean Well	GS90A24-P1M	+24/3.75	2.5mm x 5.5mm F 2	100-240@50-60	90	No	5.9 x 2.3 x 1.2	4' / 2	0.9	UL/CUL/TUV/CEC	44.49	41.49	38.95	36.49
1940871	Mean Well	AS-120P-24	+24/5.0	2.5mm x 5.5mm F 2	100-240@50-60	120	No	6.6 x 2.6 x 1.4	4' / 2	1.2	UL/CUL/TUV/CE	58.95	54.95	51.95	48.95
2099286	Mean Well	GS220A24-R7B	+24/9.2	4-pin DIN M	90-264/127-370@47-63	220	Yes	8.3 x 3.4 x 1.8	3.3' / 2	2.4	UL/CUL/TUV/CE/PFC	129.95	116.95	104.95	94.95
1707083	Mean Well	ES18A28-P1J	+28/0.64	2.1mm x 5.5mm F 2	100-264@47-63	18	Yes	3.7 x 2.1 x 1.4	6' / 2	0.5	UL/CUL/TUV/CB/CE	12.95	10.95	9.49	8.49
1940643	Mean Well	GS25A28-P1JU	+28/0.89	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6' / 6'	0.7	UL/CUL/TUV/CEC	18.95	16.95	14.95	13.49
1940475	Mean Well	GS18A48-P1JU	+48/0.37	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.6 x 2.1 x 1.4	6' / 6'	0.5	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
1940651	Mean Well	GS25A48-P1J	+48/0.52	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6' / 2	0.5	UL/CUL/TUV/CEC	16.49	14.95	13.49	12.49
229032	Phihong	PSA31U-480	+48/0.63	2.1mm x 5.5mm F 2	90-264@47-63	30	No	4.5 x 2.4 x 1.6	6' / 2	0.5	UL/CUL/TUV/CE	24.95	22.49	19.95	18.95
221584	Mean Well	P40A-BP2JU	+48/0.8	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.6 x 1.4	6' / 6'	0.8	UL/CUL/TUV/CE	25.95	23.95	21.95	19.95
221585	Mean Well	GS40A48-P1J	+48/0.84	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.9 x 2.0 x 1.3	6' / 6'	0.8	UL/CUL/TUV/CE	27.95	25.95	23.95	21.95
172065	Mean Well	SPU50-9U	+48/1.25	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	5.6 x 2.9 x 1.7	6' / 6'	1.3	UL/CSA/TUV	44.95	39.95	36.95	33.95
1952396	Mean Well	GS60A48-P1JU	+48/1.25	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	6' / 6'	0.7	UL/CUL/TUV/CE/CEC	28.95	26.95	24.95	22.95
376615	Mean Well	P66A-8P2JU	+48/1.37	2.1mm x 5.5mm F 2	100-240@50-60	66	Yes	5.8 x 3.0 x 1.7	6' / 6'	1.2	UL/CSA/TUV/CE	39.95	36.95	33.95	31.49
379681	Mean Well	P66A-8P2MU	+48/1.37	2.5mm x 5.5mm F 2	90-264@47-63	66	Yes	5.8 x 3.0 x 1.7	6' / 6'	1.2	UL/CSA/TUV/CE	44.95	41.95	38.95	35.95
<b>3-Wire AC Input – Regulated Switching Table-Top – Double &amp; Triple Output</b>															* Web Code: TDD
196270	Horizon	PSU25A13	+5/2.5, +12/1.0	4-pin mini DIN M	100-240@47-63	25	No	4.2 x 2.6 x 1.4	6' / 4'	1.2	UL/CUL/TUV/CE	\$32.95	\$29.95	\$26.95	\$23.95
221720	Mean Well	P25A14E-R1BU	+5/2.5, +15/0.3	5-pin DIN M	100-240@50-60	25	Yes	4.3 x 2.6 x 1.4	6' / 2	0.8	UL/CUL/TUV/CE	34.95	31.49	28.95	25.95

\* See accessory table-top power cord chart on page 129 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

† Right Angle

†† Includes 7ea. DC right angle plugs (1.7 x 4.75, 1.7 x 5.5, 2.1 x 5.5, 2.5 x 5.5, 3.0 x 6.3, 4.3 x 6.5, 5.8mm x 6.5mm) for various notebook compatibility

✓ CEC Equivalent available. Add a "C" before part number for CEC version.

3-Wire Regulated Table-Top Power Supplies continued on next page

RoHS compliant product   This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

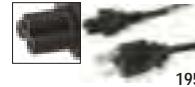
## AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see below) for just \$2.50 each. A 100 pc. minimum order applies.

Part No.	Manufacturer	Manufacturer Part No.	Output Volts (VDC)/Current (A)	Output Connector ID x OD mm Female/Male; Polarity	Input VAC@Hz	Output Power (W)	LED Ind.	Size (L" x W" x H")	Cords (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
<b>3-Wire AC Input – Regulated Switching Table-Top – Triple Output (Continued)</b>														★ Web Code: TTO	
190960	Mean Well®	P25A13D-R1U	+5/2.5, +12/0.8, -12/0.3	5-pin DIN M	100-240@50-60	26	Yes	4.1 x 2.6 x 1.4	6'6"	1.1	CUL/TUV/CE	\$39.95	\$35.95	\$32.95	\$29.95
221702	Mean Well®	P50A13D-R1BU	+5/4.0, +12/2.0, -12/0.5	5-pin DIN M	100-240@50-60	50	Yes	5.7 x 3.0 x 1.7	4'6"	1.5	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95
237367	Mean Well®	P50A14E-R1BU	+5/3.5; +15/1.2, -15/0.3	5-pin DIN M	100-240@47-63	42	Yes	5.8 x 3.0 x 1.7	4'6"	1.2	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95



### Accessory Power Input Cords for Table-Top Power Supplies



1951123

★ Web Code: RBE

Part No.	Ref. No.*	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	50	100
189587	1	2-conductor power cord (Figure 8 style)®	Black	18/2	UL/CSA	6'	0.3	SPT	\$2.69	\$2.39	\$2.19	\$1.95
38050	2	3-conductor power cord®	Black	18/3	UL/CSA	6'	0.4	SVT	3.95	3.59	3.25	2.95
1953559	3	3-conductor flat power cord (Mickey Mouse style)	Black	18/3	UL/CSA	6'	0.4	SPT-2	2.95	2.65	2.39	1.95
1951123	3	3-conductor round power cord (Mickey Mouse style)®	Black	18/3	UL/CSA	6'	0.4	SVT	3.95	3.49	2.95	2.49

\*These reference numbers for "AC cord needed" for Table-Top Power Supplies on pages 126-128

More Power Cords on page 133

## 24-Watt Switching Table-Top Power Supply

### Interchangeable AC & DC Plugs with Selected DC Outputs



- Input voltage: 100-240VAC @ 50-60Hz
- Output current: 2A
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 2.1mm x 5mm, 2.5mm x 5mm, 1.35mm x 3.5mm & 1.7mm x 4mm
- Interchangeable AC input plugs for USA/UK/Europe/Taiwan/China (included)
- Selectable outputs: 3VDC, 4.5VDC, 6VDC, 7.5VDC, 9VDC, 12VDC

Part No.	Mfr. Part No.	Size (H x W x D)	1	10	25
1537491	PSSMV3	4.7" x 3.3" x 2.5" .....	\$39.95	\$35.95	\$32.95

## 36-Watt Switching Table-Top Power Supply



- Output voltage: 5VDC to 24VDC in 1V increments
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 1.35mm x 3.5mm, 1.5mm x 5mm, 1.7mm x 4mm, 2.1mm x 5mm and 2.5mm x 5mm
- Stabilized outputs, low ripple & interference
- High efficiency, low energy consumption
- Input voltage: 100-240VAC @ 50/60Hz
- Short-circuit, overload protection • LED power indicator

Includes: AC power cord

Part No.	Mfr. Part No.	Output Current	Size (L x W x H)	1	10	25
1537521	PSSMV7U	1.5A to 4A	3.5" x 1.8" x 1.2" ...	\$49.95	\$44.95	\$39.95

## GlobTek® AC-to-DC Medical Table-Top Regulated Switching Power Supplies



- 2.5mm x 5.5mm female center positive
- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA max.
- Regulation (line & load): ±5%
- Isolation voltage: 4,000VAC • 3-wire AC input
- Ripple & noise: 1% or 100mV, whichever is smaller
- Cord lengths: DC: 6'; AC: not included use P/N 115078, pg 133
- Size: 2.9" L x 2.0" W x 1.6" H

Part No.	Mfr. Part No.	Power (W)	Output VDC/Amps	Pricing			
				1	10	25	100
230683	TR9CE1250CP®	15.6	+12/1.3	\$35.95	\$24.95	\$21.49	\$19.95
230763	TR9CE400LCP	49.2	+12/4.1	54.95	49.95	44.95	39.95
230691	TR9CG1200CP	18.0	+15/1.2	44.95	39.95	35.95	32.95
230772	TR9CG333LCP®	49.5	+15/3.3	49.95	44.95	39.95	35.95
230798	TR9CI2100LCP	50.4	+24/2.1	59.95	53.95	47.95	42.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

129

## 5VDC@0.5A Interchangeable Wall Plug Adapter With USB Socket Type A

★ Web Code: NBH



- Voltage output: 5VDC @ 0.5A
- Voltage input: 90-264VAC @ 47-63Hz • Efficiency: 55% (typical)
- Leakage current: 0.20µA max. • UL/CUL/TUV/CE approved
- Size: 2.97" L x 1.81" W x 1.25" H • Wall plug clips not included

Part No.	Product No.	1	10	50	100	
662805	PSC30R-050®	.....	\$10.95	\$9.95	\$8.95	\$7.95

## USB-A Power Cable with Interchangeable Tips



- 4' cable
- 26 AWG
- USB-A male connector • UL/CSA approved
- Tips: 1.3mm x 5.5mm female, 1.5mm x 4.8mm female, 1.7mm x 4.8mm female, 2.1mm x 5.5mm female, 2.5mm x 5.5mm female, 2.9mm x 6.3mm female, 1.3mm x 3.3mm female, and 1.3mm x 4.3mm female,
- For use with P/N 662805 wall adapter (see above)

Part No.	Product No.	1	10	50	100	
2081625	USBAC8	.....	\$8.95	\$7.95	\$6.95	\$5.95

## Cigarette Lighter Car Power Adapter

★ Web Code: NBL



- Switch selectable 1.5V, 3V, 4.5V, 5V, 6V, 9V and 12V
- DC power plugs: 2.5mm x 5mm, 2.1mm x 5mm, 1.5mm x 5mm, 1.7mm x 4mm, 1.3mm x 3.5mm and 0.7mm x 2.35mm
- Powers portable electronic devices such as MP3 players, cell phones, etc.
- Switching power supply provides 1000mA from cigarette lighter plug
- Reversible plug for center positive or negative polarity

Part No.	Mfr. Part No.	1	10	50	100	
155230	JCD22A+	.....	\$14.95	\$12.95	\$9.95	\$8.95

## Auto/Air Cigarette DC/DC Power Adapter



- Input voltage: 11VDC to 16VDC @ 10A max.
- Input connector: cigarette plug, fused (15A @ 250V)
- Output connector: interchangeable tips of 2.1mm F, 2.5mm F, 3.5mm M
- Input/Output cord length: 42" / 48"
- Color: black with LED power indicator
- Size: 4.7" L x 2.0" W x 1.0" H

Part No.	Product No.	1	10	50	100	
2099770	AA-5001G	.....	\$19.95	\$17.95	\$15.95	\$14.49

# Power Plugs, Adapters & Jacks

3 LEVELS OF SAVINGS  
**NAME BRANDS** **HOUSE BRANDS** **FACTORY OVERRUN**

**JAMECO**  
ValuePro

**NEW**  
MARKED IN PINK

## DC Power Plugs & Adapters



\* Web Code: MFP

Part No.	Mfr.	Product No.	Fig.	Description (Barrel) Plug ID x OD x L (mm)	Strain Relief ID x L (mm)	1	10	100
71192	ValuePro	PP137R	1	F plug, 1.3 x 3.5 x 9.5	4.1 x 12 (black) ..... \$ .79 \$ .69 \$ .65			
1537395	ValuePro	PL-005R	2	F plug, 1.3 x 3.5 x 9.4 (rt. angle)	2.8 x 11 ..... .95 .85 .75			
2098013	ValuePro	DCP-111R	1	F plug, 1.7 x 5.5 x 9.8	4.6 x 12 (black) ..... .95 .85 .75			
191484	ValuePro	PP049W	1	F plug, 2.1 x 5.5 x 9.0	4.6 x 12.5 (white) ..... .69 .59 .55			
2004890	ValuePro	PP049S	1	F plug, 2.1 x 5.5 x 9.5	4.5 x 12.5 (black) ..... .79 .69 .65			
297617	Switchcraft	S760R	3	F plug, 2.1 x 5.5 x 9.5	5.5 x 25 (black) ..... 3.95 3.49 2.95			
28760	ValuePro	PP049R	1	F plug, 2.1 x 5.5 x 10 (P205)	4.1 x 12 (black) ..... .79 .69 .55			
138587	ValuePro	PJ021R	2	F plug, 2.1 x 5.5 x 12 (rt. angle)	2.8 x 11 (black) ..... .89 .79 .65			
147329	ValuePro	PP049L	1	F plug, 2.1 x 5.5 x 14 (P205L)	4.3 x 12 (black) ..... .89 .79 .65			
190538	ValuePro	PP109S	1	F plug, 2.5 x 5.5 x 9.5	5.0 x 13 (black) ..... .59 .55 .49			
281877	Switchcraft	760R	3	F plug, 2.5 x 5.5 x 9.5	5.5 x 25 (black) ..... 2.95 2.49 2.19			
28768	ValuePro	PP109R	1	F plug, 2.5 x 5.5 x 10 (P206)	4.2 x 12 (black) ..... .79 .69 .59			
147336	ValuePro	PP109L	1	F plug, 2.5 x 5.5 x 14 (P206L)	4.2 x 12 (black) ..... .79 .69 .59			
168242	ValuePro	PP109N	3	F plug, 2.5 x 5.5 x 14	3.9 x 22 (black) ..... .69 .59 .55			
2099163	ValuePro	PL-008R	2	F plug, 2.5 x 5.5 x 9.5 (rt. angle)	2.8 x 11 ..... .95 .85 .75			
101135	ValuePro	PJ1025	4	M plug, — x 2.5 x 11 (P201)	4.3 x 13 (black) ..... .79 .69 .55			
231176	ValuePro	AP-340R	4	M plug, — x 3.5 x 14 (stereo)	4.3 x 13.5 (black) ..... .79 .69 .55			
231167	ValuePro	AP-343	5	M plug, — x 3.5 x 14 (stereo)	4.4 x 13 (metal) ..... 1.49 1.25 .99			
231160	ValuePro	PJ1035R	5	M plug, — x 3.5 x 14 (mono)	4.8 x 13.5 (metal) ..... 1.49 1.25 .99			
101152	ValuePro	PJ1035R	4	M plug, — x 3.5 x 14.5 (P202)	4.0 x 13 (black) ..... .69 .59 .49			
2113703	ValuePro	JR1826R	6	Adapter, 1.7mm M to 2.1mm F (1.7'L)	— ..... 1.49 1.25 .99			
2112989	ValuePro	JP1828C	6	Adapter, 2.1mm M to 1.3mm F (1.3'L)	— ..... 1.49 1.25 .99			
1953591	ValuePro	DCJ2.1-DCP2.5	6	Adapter, 2.1mm M to 2.5mm F (1.4'L)	— ..... 1.49 1.25 .99			
2113009	ValuePro	JP1829R	6	Adapter, 2.5mm M to 1.3mm F (1.3'L)	— ..... 1.49 1.25 .99			
2113711	ValuePro	Jr1827R	6	Adapter, 2.5mm M to 1.7mm F (1.7'L)	— ..... 1.49 1.25 .99			
1953604	ValuePro	DCJ2.5-DCP2.1	6	Adapter, 2.5mm M to 2.1mm F (1.4'L)	— ..... 1.49 1.25 .99			



## DC Cords with Pigtail - 6' length

Part No.	Mfr.	Cross Ref. No.	Fig.	Description (Barrel) ID x OD x L (mm)	AWG	1	10	100
2113674	ValuePro	DCCORD1.3	7	Jack, 1.3 x 3.5 x 12	24 (black) ..... \$1.59 \$1.39 \$1.15			
2114693	ValuePro	DCCORD1.7	8	Plug, 1.7 x 2.5 x 12	24 (black) ..... 1.59 1.39 1.15			
2114706	ValuePro	6FT#245.5X1.7	7	Jack, 1.7 x 2.5 x 12	24 (black) ..... 1.59 1.39 1.15			
2096763	ValuePro	DCCORD2.1	7	Jack, 2.1 x 5.5 x 12	24 (black) ..... 1.59 1.39 1.15			
2114600	ValuePro	6FT#245.5X2.1	8	Plug, 2.1 x 5.5 x 12	24 (black) ..... 1.59 1.39 1.15			
2096771	ValuePro	DCCORD2.5	7	Jack, 2.5 x 5.5 x 12	24 (black) ..... 1.59 1.39 1.15			
2114597	ValuePro	6FT#245.5X2.5	8	Plug, 2.5 x 5.5 x 12	24 (black) ..... 1.59 1.39 1.15			

## DC Extension Power Cables

Part No.	Mfr.	Product No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (see right)	Terminals	Code		
Part No.	Mfr.	Product No.	Description	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (see right)	1	10	100
2099147	ValuePro	DCEXTCORD2.1-3FT	9	2.1F x 2.1M x 3' cable	18 (black) ..... \$1.75 \$1.49 \$1.25					
2099121	ValuePro	DCEXTCORD2.1-6FT	9	2.1F x 2.1M x 6' cable	18 (black) ..... 1.95 1.75 1.49					
2099155	ValuePro	DCEXTCORD2.5-3FT	9	2.5F x 2.5M x 3' cable	18 (black) ..... 1.75 1.49 1.25					
2099139	ValuePro	DCEXTCORD2.5-6FT	9	2.5F x 2.5M x 6' cable	18 (black) ..... 1.95 1.75 1.49					

## Male & Female Power Jacks

Part No.	Mfr.	Product No.	Description	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (see right)	1	10	100
101194	Various	PP024	1.3mm male	6.0 x 6.0 x 9.0	1/D	1/B	1.3 mm F ..... \$ .59 \$ .55 \$ .45			
101178	Various	PP014+	2.1mm male	10.9 x 9.0 x 14.5	2/D	1/A	2.1 mm F ..... .39 .35 .29			
137673	Various	PP013R	2.1mm male	10.9 x 9.0 x 14.5	3/D	4/A	2.1 mm F ..... .45 .39 .35			
151590	Various	DPJ-021A	2.1mm male	18.0 x 12.6 Dia.	4/C†	1/A	2.1 mm F ..... .89 .79 .69			
151555	ValuePro	DPJ-026R	2.1mm male	21.0 x 8.0 Dia.	5/E	1/A	2.1 mm F ..... 1.49 1.35 1.19			
159611	Various	PJ1014A	2.1mm male	57.5 x 12.6 Dia.	6/F	3/A	2.1 mm F ..... 1.75 1.59 1.39			
281851	Switchcraft	722A	2.1mm male	15.1 x 7.5 Dia.	7/C	1/A	2.1 mm F ..... 2.75 2.49 2.25			
207714	Various	HEC0470	2.5 mm male	11.0 x 9.0 x 14.5	2/D	1/B	2.5 mm F ..... .55 .49 .39			
101186	Various	PP014A+	2.5 mm male	11.0 x 9.0 x 14.5	2/D	1/A	2.5 mm F ..... .49 .45 .29			
151563	Various	DPJ-026A	2.5 mm male	15.1 x 8.0 Dia.	5/E	1/A	2.5 mm F ..... 1.49 1.35 1.19			
159506	Various	PJ1015A	2.5 mm male	57.5 x 12.6 Dia.	6/F	3/A	2.5 mm F ..... 1.49 1.35 1.19			
202358	Various	HD2388	2.5 mm male	12.4 x 7.7 Dia.	8/C*	3/A	2.5 mm F ..... 1.19 .99 .89			
2100355	Switchcraft	HE2388M	2.5 mm male	17.1 x 10.9 Dia.	8/C**	4/A	2.5 mm F ..... 1.49 1.35 1.19			
281842	Switchcraft	712A	2.5 mm male	15.8 x 7.5 Dia.	7/C	1/A	2.5 mm F ..... 3.95 3.39 2.95			
297553	Switchcraft	PC712A	2.5 mm male	23.3 x 11.0 Dia.	9/D	1/A	2.5 mm F ..... 3.95 3.39 2.95			
297529	Switchcraft	L712A	2.5 mm male	23.3 x 11.0 Dia.	10/C	1/A	2.5 mm F ..... 3.95 3.39 2.95			
101143	ValuePro	PJ0352R	3.5 mm female	10.0 x 10.0 x 18.5	11/E	2/A	3.5 mm M ..... .39 .35 .29			
109496	ValuePro	PJ035PM	3.5 mm female	10.5 x 9.0 x 20.0	12/C	2/A	3.5 mm M ..... .49 .45 .39			
1065730	ValuePro	PJ0354R	3.5 mm female	15.5 x 5.9 Dia.	13/C	3/A	3.5 mm M ..... .79 .69 .59			

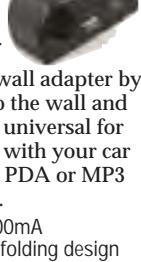
† Center offset \* Plastic \*\* Metal

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Wagan Cell Phone/ PDA Travel Adapter

Provides Both DC & USB Power



Converts any car charger into a wall adapter by simply plugging the adapter into the wall and car charger into the DC port. It's universal for all cell phone brands when used with your car charger. It's also suitable for any PDA or MP3 player by utilizing the USB port.

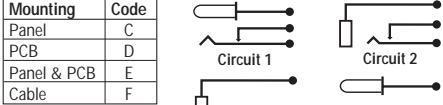
- DC: 12V @ 500mA • USB: 5V @ 500mA
- Fuse protected
- Space saving folding design

Part No.	Description	1	10
2096051	AC to DC power adapter	\$14.95	\$13.49

## Automobile Fused Power Plugs with Cords

- Accepts .25" x 1.25" fuse
- Screw assembly w/ strain relief (no cord)
- 115002
- 124760: 3' cord w/ pigtail
- 105064: 12' cord w/ pigtail

Part No.	Mfr.	Fuse	1	10	100
115002	ValuePro	5A/250VAC	\$2.25	\$1.99	\$1.79
124760	ValuePro	3A/250VAC	2.49	2.25	1.99
105064	Various	2A/250VAC	1.95	1.75	1.39

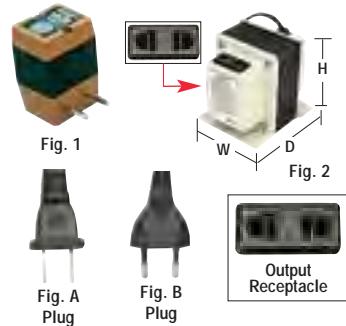


## International Step-Up & Step-Down Transformers

\* Web Code: RAL

Part No.	Product No.*	Fig.	Type	Volt Step	Primary Voltage	Secondary Voltage	Power (VA)	Dimensions			Wt. (lbs.)	Pricing		
								H"	W"	D"		1	10	25
99477	AC220V50+	1/A	Auto	Up	110VAC	220VAC	50	2.50	1.63	1.33	0.7	\$9.95	\$8.95	\$7.95
85008	AC220V300	2/A	Auto	Up	110VAC	220VAC	300	3.50	3.05	3.95	4.8	39.95	35.95	31.95
221331	GIS-500R	2/A	Isolation	—	110VAC	110VAC	500	4.69	3.75	6.00	16.0	59.95	53.95	48.95
221217	P8689	2/A	Auto	Up	110VAC	220VAC	1000	4.63	3.75	6.13	17.0	79.95	71.95	64.95
99573	AC110V50	1/B	Auto	Down	220VAC	110VAC	50	2.50	1.63	1.33	0.7	9.95	8.95	7.95
85016	AC110V300	2/B	Auto	Down	220VAC	110VAC	300	3.50	3.05	3.95	4.8	39.95	35.95	31.95
111851	AC110V500	2/B	Auto	Down	220VAC	110VAC	500	3.99	3.60	4.84	8.5	69.95	62.95	56.95
222092	GISD-1000	2/A	Isolation	Down	220VAC	110VAC	1000	5.38	4.38	8.13	31.0	79.95	71.95	64.95
142906	AC110V1500	2/B	Auto	Down	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	99.95	89.95	79.95

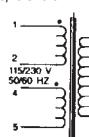
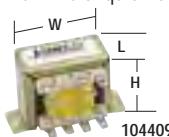
\* Blue Part No. = Limited Quantity Available



## Quick-Connect Power Transformers

\* Web Code: BAN

- Input voltage: 115/230VAC, 50-60Hz
- Terminals: quick-connect, solder



104409

Part No.	Product No.	Triad Cross*	Input Voltage	Output Voltage	VA	Size of Connect	Dimensions			Wt. (lbs.)	Pricing		
							L"	W"	H"		1	10	25
104387	XFR12250	FD612	115/230VAC	12.6VCT @ 2.5A	31.5	0.187"	1.75	2.33	2.00	1.3	\$11.95	\$10.95	\$9.95
104409	XFR16350R	FD716†	115/230VAC	16VCT @ 3.5A	56.0	0.141"	2.25	2.68	2.33	1.8	15.95	14.49	12.95
101864	XFR24240+	FD724	115/230VAC	24VCT @ 2.4A	57.6	0.141"	2.10	2.70	2.29	1.7	12.95	11.49	9.95
104417	XFR36150R	FD736	115/230VAC	36VCT @ 1.5A	54.0	0.141"	2.30	2.70	2.30	1.8	15.95	14.49	12.95

† Terminal solder lugs are on same side

\* Triad cross is for reference only

## Split-Bobbin Power Transformers (2.5 to 19.2VA)

\* Web Code: LBK

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.



221292

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement
- \* Triad cross is for reference only

Part No.	Product No.	Triad Cross*	Input Voltage	VA	Individual Output	Parallel Output	Series Output	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
221292	DSW-312	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	\$6.95	\$6.25	\$5.59
102534	XFR1205SBR	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.32	1.64	1.38	0.4	7.95	6.95	6.25
102518	XFR1602SBR	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.17	1.40	1.20	0.3	4.95	4.49	3.95
116089	14A-2.5R-2Y	Signal	118/230	2.5	12V @ 20A	12V @ .40A	24VCT @ .10A	1.62	1.31	1.12	0.25	5.95	5.35	4.79
102593	XFR2405SBR	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	7.95	6.95	5.95
148559	XFR3603SB	FS36350	115/230	12.6	18V @ .35A	18V @ .70A	36VCT @ .35A	1.59	1.91	1.46	0.7	7.95	6.95	5.95
209015	ST-6-48	—	115	19.2	24V @ 40A	24V @ .80A	48VCT @ .40A	1.88	2.25	1.40	0.8	5.95	5.35	4.79

## Power Transformers (7.6 to 288VA)

\* Web Code: JAM



29226

115/230VAC 50-60Hz

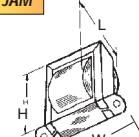
Fig. 1

115VAC 50-60Hz

Fig. 2

115VAC 50-60Hz

Fig. 3



Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

- Primary: 115VAC or 115/230VAC, 50-60Hz

Part No.	Product No.	Triad Cross#	Primary Color Code		VA	Voltage	Color Code		Lead Type	Fig.	Dimensions			Wt. (lbs.)	Pricing				
			VA	Volt			Color	Code			L"	W"	H"		1	10	100		
102163	XFR6102R	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	1	1.84	2.40	1.67	0.8	\$6.95	\$6.25	\$4.95
105523	XFR0910+	—	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Blue	Wire	1	1.82	2.43	1.67	0.7	6.95	6.25	5.59
105524	XR082-91-R	—	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Blue	Wire	1	1.82	2.43	1.67	0.7	7.95	7.19	5.95
221400	P-8657R	F218X	Black	—	Black	24.0	12VAC @ 2A	White	—	White	Wire	2	1.89	2.75	1.99	1.3	9.95	8.95	7.95
221356	P-8658	F219X	Black	—	Black	48.0	12VAC @ 4A	White	—	White	Wire	2	2.25	4.00	2.63	2.3	12.95	11.49	8.95
29226	XFR122R	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	3	2.41	2.79	1.99	1.5	13.95	12.49	9.95
102155	XFR1220R	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	1	2.35	2.32	1.97	1.5	13.95	12.49	9.95
149771	XFR1240R	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.45	3.20	2.25	2.2	14.95	13.49	10.95
102121	XFR124R	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	3	2.45	3.21	2.26	2.7	14.95	13.49	10.95
105532	XFR1810R	—	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	1	2.20	2.81	1.99	1.2	9.95	8.95	6.95
149957	XFR1820R	—	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	1	2.25	3.15	2.71	1.8	11.95	10.95	8.95
221382	P8396R	—	Black	—	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	3	1.63	2.80	1.97	0.6	7.95	6.95	5.95
102112	XFR2410R	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	1	2.41	2.80	1.99	1.5	10.95	9.95	7.95
221373	P-8662R	F192X	Black	—	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	3	2.44	3.60	2.23	2.3	13.95	12.49	9.95
112513	XFR242N	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	White	Wire	2	2.33	3.16	2.28	1.8	13.95	12.49	9.95
221365	P-8663R†	F193U	—	—	—	96.0	24VCT @ 4A	—	—	—	Lug	3	2.81	2.94	4.00	4.0	19.95	17.95	15.95
221411	P-8666R†	F226U	—	—	—	288.0	24VCT @ 12A	—	—	—	Lug	3	4.63	3.75	4.63	11.2	54.95	49.95	44.95
99654	XFR242R	—	Red	—	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	3	2.44	3.22	2.30	2.5	13.95	12.49	9.95
102104	XFR2520R	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Orange	Wire	1	2.45	3.22	2.26	2.8	13.95	12.49	9.95
149797	XFR2820R	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	1	2.45	3.22	2.26	2.3	13.95	12.49	9.95

\* Solder terminals    \* Center tap    # Triad cross is for reference only

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

## PC Mount Modem Coupling Transformers

- 125357: • Core type: EI-14
- Insulation resistance: 100MΩ
- ±20% impedance matching and DC resistance matching
- Hipot tested: 1000VAC
- Vacuum wax impregnated



117760:

- Dielectric strength: 1250VAC
- Insertion loss: 2.50dB @ 1kHz

Part No.	Product No.	Impedance (Ω)		Resistance (Ω)		Pricing		
		Primary	Secondary	Primary	Secondary	1	10	100
125357	XFR6006A14R	600CT	600CT	65	55	\$2.25	\$1.95	\$1.75
117760	671-8014	600	600	108	120	2.95	2.75	2.49

## Low Frequency Current Sensing Transformer

May be used to monitor current 0.1-30A @ frequencies 50-400Hz.

- Turns ratio: 1:500
- Typical output: 110mV/amp
- Hi-pot: 500V
- Burden resistor: 60Ω



Part No.	Mfr. Part No.	Sen DCR	Primary DCR	1	10	100
627591	CSE187L	21Ω max.	250μΩ max.	\$2.95	\$2.75	\$2.49

## Current Sensing Transformer

- Frequency range: 20-200kHz
- Primary is inserted thru hole in casing
- Arrow side of primary conductor has same polarity as pin #1

Part No.	Mfr. Part No.	DCR	Primary Arms	1	10	100
627621	CST306-1A	0.34Ω max.	35	\$3.95	\$3.59	\$3.25

## 500 to 2000VA Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch

121276



Part No.	Fuse	Size (W" x D" x H")	Wt. (lbs.)
121276	3A/250V (P/N 69439)	5.3 x 7.3 x 7.0	10.4
129008	5A/250V	9.4 x 6.5 x 7.7	14.8
152582	10A/250V (P/N 69462)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
121276	500VA trans.R	\$109.95	\$99.95	\$89.95
129008	1000VA trans.R	139.95	124.95	114.95
152582	2000VA trans.R	219.95	199.95	179.95

## 320VA Variable AC Transformer

- Input voltage: 110VAC @ 50-60Hz
- Matching input/output terminals: P/N 103668 & 109112 (disconnect .25" solderless terminals), pg 91
- Maximum current: 2.5A
- Shaft length: 0.5"
- Size: 2.8"Dia. x 2.1"H
- Weight: 2.5 lbs.
- Panel mount
- One-year warranty



Includes: 3 disconnect .25" solderless terminals

Part No.	Product No.	1	10	50
149324	PSV-203-R	\$59.95	\$53.95	\$47.95

\* Variable Transformers Online — Enter Web Code MAR

## 6kV-7.4kV High Voltage Power Supply

- Input voltage range: 113VAC to 132VAC
- Input lead wires: 22 AWG UL1015, 7.5'L; AC hot (black), AC COM (white), HV RTN (green)
- Output voltage: 6.0kV to 7.4kV A@ 120VAC
- Output lead wires: 22 AWG UL3239, 10" (pink)
- UL94V-0 rated encapsulant filled epoxy
- Size: 3.0"L x 1.2"W x 1.0"H



Part No.	Product No.	Description	1	10	50	100
2100136	CS2080A3	High voltage power supply	\$14.95	\$13.49	\$11.95	\$9.95

Rohs compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## PC Mount Data/Voice Dual Transformer

- Frequency range: data voice: 300 – 3500Hz; data: 800 to 3500Hz
- Trans-hybrid loss: 50dB
- Dielectric strength FCC68.304: 1500V
- Power level: -45dBm to +7dBm
- Meets FCC part 68.310: 60dB min., 200-1000Hz; 45dB min., 1000-4000Hz

Part No.	Mfr. Part No.	Impedance (Ω)		DC Current (mA) max.	Typical Loss dB	Pricing			
		Primary	Secondary			1	10	50	
630475	TY-300P	600 (4W)	600/600	0	0.8	30	\$5.95	\$5.35	\$4.79

## PC Mount Audio Transformer

- Impedance matching: 10% over frequency range
- 6-pin PC mount
- Output: 100mW
- Impedance (Ω): 600CT/600CT
- Primary DC Unbalance: 15mA

Part No.	Mfr. Part No.	Dimensions (W x D x H)	1	10	100
630459	TY-145P	13/16" x 9/32" x 5/8" .....	\$3.95	\$3.49	\$2.95

## Current Sensing Transformer

- Frequency range: 10-50 kHz
- Inductance: 5mH
- Sensitivity current ( $I_{in}$ ): 1A
- Terminating resistor: 50Ω
- Turns: 60
- Sensitivity voltage ( $V_{out}$ ): 1V
- Max. current: 300mA

Part No.	Product No.	Dimensions (W x D x H)	1	10	100
164718	MTC30101	0.7" x 0.46" x 0.8" .....	\$2.49	\$2.25	\$1.95

\* Audio Transformers Online — Enter Web Code SAJ



## EMI Suppression Cores with Case

Reduce Electromagnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



- Impedance at 100MHz between 75-225Ω min.
- Color: black (except P/N 2095402: white)

## Round

Part No.	InDia.	OutDia.	Length	1	10	100
218174	.20"	.64"	1.15"	\$1.25	\$0.99	\$0.75
2095402	.30"	.78"	0.77"	1.19	.99	.79
217842	.34"	.78"	1.40"	1.49	1.25	.99
2081810	.38"	1.0"	0.65"	1.25	1.09	.89
2094979	.51"	.89"	1.42"	1.95	1.75	1.49

## Square

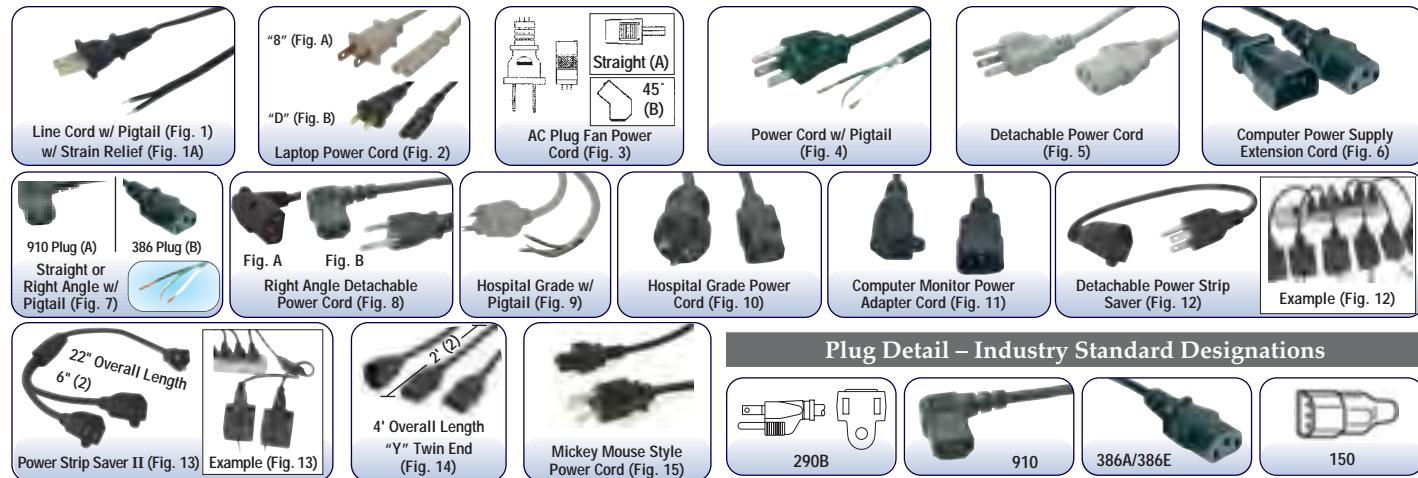
Part No.	InDia.	Width	Height	Length	1	10	100
2094987	.20"	.55"	.59"	1.40"	\$1.49	\$1.25	\$1.09
1952901	.25"	.70"	.77"	1.30"	1.95	1.59	1.25
1536958	.40"	.87"	.87"	1.27"	1.95	1.75	1.49

## International Step-Up/Step-Down Autotransformer

- Input voltage: 110/200/220/240V
- Output voltage: 110/220V
- Wattage: 80 watts continuous/100 watts intermittent
- On/off switch
- Fuse protected
- Two free spare fuses
- CE certification
- European to US adapter on power cable
- Universal European/US output receptacles
- Dimension: 5.2)L x 3.7" W x 3.5" H



Part No.	Product No.	1	10	25
2082599	VC-100	\$14.95	\$13.49	\$11.95



Plug Detail – Industry Standard Designations



## 2 & 3-Conductor Fan, Pigtail, Detachable & Hospital Grade Power Cords

- Molded connectors
  - Excellent resistance to jacket abrasion
- 2-Conductor Line Cords with Pigtail

- Voltage rating: 300 volts
- Temperature: -20°C to +60°C



\* Web Code: UBF

JAMECO ValuePro

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cord Cond	Type*	Pricing			
									1	10	50	100
2120188	444010-4	JVP	.15	1A	4'	Black	18/2	SPT-2	\$1.95	\$1.75	\$1.49	\$1.25
152187	17106BG <del>R</del>	JVP	.20	1	6'	Beige	18/2	SPT-2	2.25	1.99	1.85	1.69
124434	ST008 <del>R</del>	JVP	.16	1	6'	Black	18/2	SPT-2	2.25	1.99	1.85	1.69
42042	SY-001-R <del>R</del>	JVP	.18	1A	6'	Black	18/2	SPT-2	2.49	2.25	1.95	1.79

### 2-Conductor "8" Style Power Cords for Laptops and Power Supplies

355944	VW-1G	◆ .30	2A	6'	Gray	18/2	SPT-2	\$1.75	\$1.59	\$1.39	\$1.25
189587	VW-1 <del>R</del>	◆ .30	2A	6'	Black	18/2	SPT-2	2.69	2.39	2.19	1.95

### 2-Conductor "D" Style Power Cord for Laptops and Power Supplies

200791	LL114039	◆ .30	2B	6'	Black	18/2	SPT-2	\$1.95	\$1.79	\$1.59	\$1.39
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### 2-Conductor AC Plug Fan Power Cords

1952572	FACS <del>R</del>	◆ .40	3A	6'	Black	18/2	SPT-2	\$2.95	\$2.69	\$2.39	\$2.19
1952581	FAC45 <del>R</del>	◆ .40	3B	6'	Black	18/2	SPT-2	2.95	2.69	2.39	2.19

### 3-Conductor Power Cords with Pigtail (Unshielded) 290 Plug

38009	17237 <del>R</del>	JVP	.31	4	6'	Gray	18/3	SVT	\$3.79	\$3.39	\$2.95	\$2.79
37997	17236 <del>R</del>	JVP	.30	4	6'	Black	18/3	SVT	3.79	3.39	2.95	2.79
173810	17405 <del>R</del>	JVP	.14	4	6'	Gray	18/3	SJT	3.95	3.55	3.19	2.89
159410	17405BG <del>R</del>	JVP	.37	4	6'	Black	18/3	SJT	3.95	3.55	3.19	2.89
1585514	CPB-FL-08 <del>T</del>	◆ .56	4	8'	Black	18/3	SVT	4.29	3.85	3.49	3.19	
38025	17238 <del>R</del>	JVP	.42	4	8'	Black	18/3	SVT	4.49	3.95	3.55	2.95
339688	17407 <del>R</del>	JVP	.60	4	8'	Black	18/3	SJT	4.79	4.39	3.79	3.39
102007	17535B <del>R</del> <sup>TT</sup>	JVP	.49	4	10'	Black	18/3	SVT	4.95	4.49	3.95	3.49
196286	LL40378 <del>R</del>	JVP	.80	4	10'	Black	16/3	SJT	6.95	6.25	5.59	4.95
166925	17516 <del>R</del>	JVP	.41	4	6.7"	Black	14/3	SJT	7.95	7.19	6.49	5.79
100272	17629B <del>R</del>	JVP	.88	4	9"	Black	14/3	SJT	8.95	7.95	7.19	6.49

<sup>†</sup>With crimped terminals (3) <sup>TT</sup>European standard insulation color code

### 3-Conductor Power Cord with Pigtail (Shielded) 910 Plug

339995	17751 <del>R</del>	◆ .49	7A	6.7"	Black	18/3	SVT	\$3.95	\$3.55	\$3.19	\$2.89
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### 3-Conductor Detachable Power Cords (Unshielded) 290B/386A Plugs

2081801	17002A <del>R</del>	JVP	.36	5	1'	Black	18/3	SVT	\$2.95	\$2.65	\$2.39	\$1.95
2082425	17000A	JVP	.35	5	3'	Black	18/3	SVT	3.25	2.95	2.59	2.29
38041	17249 <del>R</del>	JVP	.37	5	6'	Beige	18/3	SJT	3.95	3.59	3.19	2.89
103747	17248	JVP	.34	5	6'	Gray	18/3	SJT	3.95	3.59	3.19	2.94
38050	17250 <del>R</del>	◆ .36	5	6'	Black	18/3	SVT	3.95	3.59	3.25	2.95	
132118	17500 <del>R</del>	JVP	.44	5	6'	Black	18/3	SJT	4.95	4.49	3.95	3.25
117584	17502 <del>R</del>	JVP	.37	5	7.7"	Gray	18/3	SVT	3.95	3.59	3.25	2.95
2100275	17251B	JVP	.37	5	7.7"	Black	18/3	SVT	3.95	3.49	3.19	2.79
1585637	171096	◆ .60	5	8'	Black	18/3	SJT	3.95	3.49	3.19	2.79	
171096	17758	◆ .60	5	8'	Black	18/3	SJT	4.95	4.49	3.95	3.49	
102024	17501V <del>R</del>	JVP	.55	5	10'	Black	18/3	SVT	5.95	5.69	5.39	4.95
163361	6952299	JVP	.33	5	14'	Black	18/3	SJT	6.95	6.25	5.59	4.95
340291	17001A <del>R</del>	JVP	.31	5	3'	Black	16/3	SJT	3.95	3.59	3.19	2.79
159361	17602	JVP	.52	5	6'	Black	16/3	SJT	6.95	5.95	5.35	4.79
1537230	LL34877	JVP	.72	5	8'	Black	16/3	SJT	7.95	6.95	6.25	5.59
1943078	E204241-C	◆ .72	5	6.7"	Black	14/3	SJT	6.95	6.25	5.59	4.95	
125541	17504 <del>R</del>	JVP	.72	5	6.7"	Black	14/3	SJT	7.95	7.19	6.49	5.79

◆ Blue Part No. = Limited Quantity Available

### 3-Conductor Computer Monitor Power Adapter Cord (150/386 Plugs)

177448	MPC1 <del>R</del>	JVP	.16	11	1'	Black	18/3	SVT	\$2.95	\$2.69	\$2.39	\$2.19
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### 3-Conductor Detachable Power Cords (Power Strip Saver) 290B/386 Plugs

208339	P55-BR <del>R</del>	JVP	.16	12	1'	Beige	18/3	SVT	\$2.49	\$2.25	\$1.95	\$1.75
199778	PSS-1 <del>R</del>	JVP	.16	12	1'	Black	18/3	SVT	2.95	2.69	2.39	2.15

### 3-Conductor Power Cord ("Y" Type Power Strip Saver II) 290B/386 (2) Plugs

208347	GPR-2006 <del>R</del>	◆ .38	13	22'	Black	18/3	SVT	\$6.95	\$6.25	\$5.59	\$4.95
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### 3-Conductor Power Cord ("Y" Twin End) 150/386 (2) Plugs

340566	17268A <del>R</del>	JVP	.32	14	4'	Black	18/3	SJT	\$6.95	\$6.25	\$5.59	\$4.95
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### 3-Conductor "Mickey Mouse" Style Power Supply Cords

1953559	MMFLAT	MWL	.40	15	6'	Black	18/3	SPT-2	\$2.95	\$2.65	\$2.39	\$1.95
1951123	MMPC <del>R</del>	MWL	.40	15	6'	Black	18/3	SVT	3.95	3.49	2.95	2.49

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat); Junior duty; SVT (Round); Light service; SJT (Round); Junior service

\* JVP = Jameco ValuePro | MWL = Mean Well | SLA = Sola | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

# Power Cords, AC Receptacles, Power Entry & Line Filters

3 LEVELS OF SAVINGS  
**NAME BRANDS** **HOUSE BRANDS** **FACTORY OVERRUN**

JAMECO ValuePro

- 3-conductor detachable power cords
- Excellent resistance to jacket abrasion
- Cord color: black; except 1950702/172195: grey

- BSI: British Standard Institution
- Cord type: H05VVF
- Voltage rating: 300V

## International Power Cords

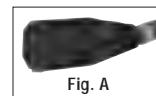
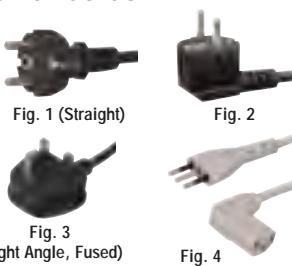


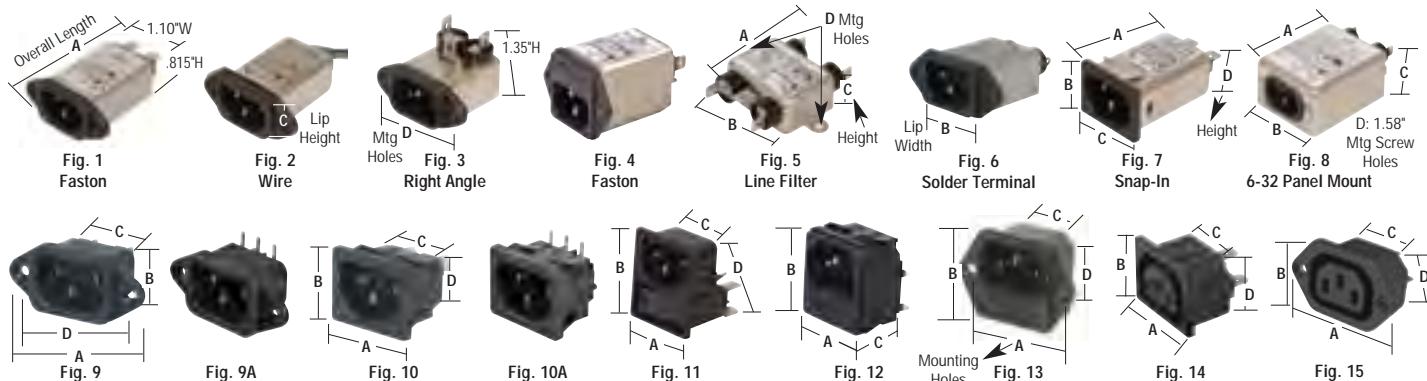
Fig. A



### European Agency Approvals

Germany	VDE		LCIE	
Austria	DKEV		KEMA	
Netherlands	KEUR		NEMKO	
Belgium	CEBEC		SEMKO	
Denmark	DEMKO		SEV	
Finland	FIMKO			

## EMI Power Entry Filters (IEC Connector), Line Filters & AC Receptacles (IEC 320)



- Rated voltage: 115/250VAC
- Operating frequency: 50/60Hz
- Hipot rating (one minute) line to ground: 2250VDC; line to line: 1450VDC
- EMI Power Entry Filter: Maximum leakage current each line to ground: @ 115VAC 60Hz: 0.20mA @ 250VAC 50Hz: 0.40mA
- EMI Line Filter: Maximum leakage current each line to ground: @ 115VAC 60Hz: 0.25mA; 1.0mA (10000pF) @ 250VAC 50Hz: 0.45mA; 2.0mA (10000pF)

Web Code: ACR

Part No.	Mfr.	Product No.	Description	Fig.	Current (A)	Hipot (VDC)	Terminals	Terminal Size	Agency Approvals	Dimension (in.)				Pricing		
										A	B	C	D	1	10	100
1951511	Delta†	01GEEG3E (1ED1)	Power entry filter, straight (screw flanged)	1	1	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	\$3.49	\$2.95	\$2.49
210913	Delta†	01GEEW3E (1ED8)	Power entry filter, straight (screw flanged)	2	1	2250	4" Wires	Wire	UL/CSA/VDE	1.89	1.19	0.86	1.58	3.95	3.49	2.95
1951529	Delta	01DEEG3V	Power entry filter, rt. angle (screw flanged)	3	1	2250	Faston	0.25"	UL/CSA/VDE	1.64	1.19	0.87	1.58	2.95	2.49	1.95
1172613	Tyco	1EGGI-2R	Pwr entry filter, straight, fused (screw flanged)	4	1	2250	Faston	0.25"	UL/CSA/VDE	1.62	1.29	1.44	1.27	3.95	3.59	3.39
1951545	Delta	01DKAG5	Line filter	5	1	2250	Faston	0.25"	UL/CSA/VDE	2.92	1.98	0.87	2.39	3.49	2.95	2.25
395647	Corcom	2VK1	Line filter	5	2	2250	Faston	0.25"	UL/CSA/VDE	3.00	1.74	0.89	2.39	3.95	3.49	2.95
107326	Delta	03DEEG3B (3EF1F)	Power entry filter, straight (screw flanged)	1	3	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	3.95	3.49	2.95
667438	ValuePro	YB03A1 (3EF1F)	Power entry filter, straight (screw flanged)	1	3	2250	Faston	0.25"	UL/CSA/VDE	2.23	1.19	0.89	1.58	4.95	4.49	3.95
150616	ValuePro	03AC1R	Power entry filter, straight (screw flanged)	6	3	2250	Solder	0.16"	UL/CSA/VDE	2.05	1.19	0.89	1.58	4.95	4.49	3.95
1951537	Delta†	03GEEW3E-R (3ED8)	Power entry filter, wire (screw flanged)	2	3	2250	4" Wire	Wire	UL/CSA/VDE	1.90	1.19	0.87	1.58	4.95	4.49	3.95
1951553	Delta†	03GENG3E-R	Power entry filter (snap-in flanged)	7	3	2250	Faston	0.25"	UL/CSA/VDE	2.20	0.95	1.22	0.82	3.95	3.59	3.39
1951561	Delta	03DBAG5 (3EB1)	Line filter	5	3	2250	Faston	0.25"	UL/CSA/VDE	2.48	1.73	0.76	2.13	3.95	3.59	3.39
1954720	Delta	04BEEG3S	Power entry filter, straight, fused (screw flanged)	1	4	2250	Faston	0.25"	UL/CSA/VDE	2.26	1.19	1.26	1.40	3.95	3.59	3.39
1951570	Delta†	05DRDG3S (5ER7)	Power entry filter, 6-32 threaded panel mount	8	5	2250	Faston	0.25"	UL/CSA/VDE	3.15	1.97	1.28	1.58	4.95	4.49	3.95
667462	ValuePro	YB06T1	Power entry filter, straight (screw flanged)	1	6	2250	Solder	0.25"	UL/CSA/VDE	2.10	1.19	0.89	1.58	4.95	4.49	3.95
1951633	ValuePro†	YB06AIRR	Power entry filter, straight (screw flanged)	1	6	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.89	1.58	4.95	4.49	3.95
1951588	Delta	06DEEG3V	Power entry filter, right angle (screw flanged)	3	6	2250	Faston	0.25"	UL/CSA/VDE	1.64	1.19	0.87	1.58	4.95	4.49	3.95
1951596	Delta†	10GEET3C	Power entry filter, straight (screw flanged)	1	10	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	4.95	4.49	3.95
1951609	Delta	10ME3(S)	Power entry filter, right angle (PC mount)	3	10	2250	Solder	0.16"	UL/CSA/VDE	1.64	1.19	0.87	1.58	4.95	4.49	3.95
1951617	Delta	15DEEG3HA(D)	Power entry filter, straight (screw flanged)	1	15	2250	Faston	0.25"	UL/CSA/VDE	2.42	1.19	0.87	1.58	5.95	5.35	4.79
165018	OKAYA††	SUP-J15G-E2	Power entry filter, straight (screw flanged)	6	15	††	Solder	0.16"	UL/CSA/VDE	2.20	1.21	0.89	1.58	5.95	5.35	4.79
147901	Various	701R	AC power inlet, male (screw flanged)	9	15	250	Faston	0.187"	UL/CSA/VDE	1.97	0.76	1.06	1.58	.99	.79	.65
16652	ValuePro	JR101R	AC power inlet, male (screw flanged)	9	15	250	Faston	0.25"	UL/CSA/VDE	1.97	0.76	1.06	1.58	1.09	.89	.69
2114010	Adam Tech	IEC-A-4R	AC pwr inlet, M RA (screw flanged, PC mount)	9A	15	250	Solder	0.071"	UL/CSA/VDE	1.968	0.886	1.055	0.756	.59	.49	.39
147109	Various	42R02	AC power inlet, male (snap-in)	10	15	250	Faston	0.25"	UL/CSA/VDE	1.23	0.95	1.04	0.77	.99	.79	.65
2114028	Adam Tech	IEC-J-4R	AC pwr inlet, M RA (snap-in, PC mount)	10A	15	250	Solder	0.071"	UL/CSA/VDE	1.22	0.945	1.043	0.787	.65	.55	.45
2095525	ValuePro	IEC-GS-1-100	AC pwr inlet, male w/ sw. & fuse folder (snap-in)	11	15	250	Faston	0.187"	UL/CSA/VDE	1.20	1.97	0.77	1.83	2.49	2.25	1.95
117445	ValuePro#	0717R	AC power inlet, male w/ fuse chamber (snap-in)	12	10	250	Faston	0.187"	UL/CSA/VDE	1.18	1.30	1.05	1.20	1.95	1.79	1.59
265528	ValuePro#	WS-044R	AC power inlet, male w/ fuse chamber (screw)	13	10	250	Faston	0.185"	UL/CSA/VDE	1.40	1.28	1.06	1.21	1.49	1.35	1.19
1954640	Various	K2415	AC power inlet, female (snap-in)	14	15	250	Faston	0.187"	UL/CSA/VDE	1.38	0.98	1.26	1.10	1.49	1.25	.99
1954658	Various	K2414	AC power inlet, female (screw flanged)	15	15	250	Faston	0.187"	UL/CSA/VDE	1.97	1.14	1.26	0.95	1.75	1.49	1.25

† High Performance; Increased filtering; Added bleed resistor; More safety agencies    †† Hipot: 2000VRMS    # Includes spare fuse holder - fuse type 5mm x 20mm (250V)

Continued on next page

\* RoHS compliant product    + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 197.

## EMI Power Entry Filters (IEC Connector), Line Filters & AC Receptacles (IEC 320) Continued

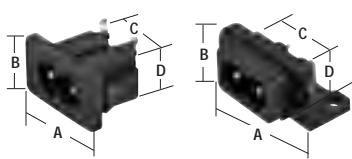


Fig. 16

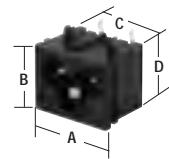


Fig. 17

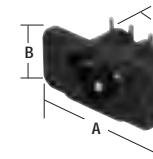


Fig. 18

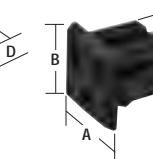


Fig. 19

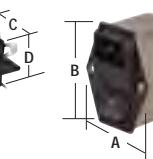


Fig. 20

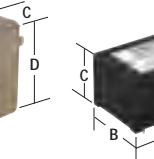


Fig. 21



Fig. 22



Fig. 23

\* Web Code: ACR

Part No.	Mfr.	Mfr. Part No.	Description	Fig.	Current (A)	Hipot (VDC)	Terminals	Agency Approvals	Dimension (in.)				Pricing			
									A	B	C	D	1	10	100	
2114052	Adam Tech	IEC-NA-4#R	AC pwr inlet, mini, M RA (snap-in, PC mount)	16	15	250	Solder	0.098"	UL/CSA/VDE	1.102	0.63	1.748	0.492	\$ .55	\$ .45	\$ .39
2114061	Adam Tech	IEC-ND-4#R	AC pwr inlet, mini, M RA (scrw flngd, panel mnt)	17	15	250	Solder	0.098"	UL/CSA/VDE	1.378	0.571	0.811	0.401	2.49	2.29	1.95
2114079	Adam Tech	IEC-NH-4#R	AC pwr inlet, mini, M RA (snap-in, PC mount)	18	15	250	Solder	0.059"	UL/CSA/VDE	0.886	0.689	0.787	0.61	.65	.55	.49
2114087	Adam Tech	IEC-NA-A-4#R	AC pwr inlet, mini, M RA (scrw flngd, panel mnt)	19	15	250	Solder	0.071"	UL/CSA/VDE	1.543	0.717	0.787	0.61	.69	.59	.55
2114095	Adam Tech	NEMA-5-2#R##	AC pwr outlet, NEMA receptacles (snap-in)	20	15	250	Blade	—	UL/CSA/VDE	1.063	1.063	0.70	0.866	.75	.65	.55
2114124	Adam Tech	PLF-6DZ2KR#R	Pwr entry filter, strght, fuse & sw. (scrw flngd)	21	15	250	Faston	0.250"	UL/CSA/VDE	1.968	2.559	2.394	1.154	9.95	8.95	7.95
2114108	Adam Tech	PLF-3PC4#R	Line filter, plastic case (PC mount)	22	15	250	Solder	0.039"	UL/CSA/VDE	1.93	1.38	1.06	—	6.95	5.95	5.25
2114116	Adam Tech	PLF-3PC#R	Line filter, metal case (PC mount)	23	15	250	Solder	0.039"	UL/CSA/VDE	0.984	0.984	0.787	—	5.95	5.49	4.95

## For 14-16 AWG wires

## Open-Frame Linear AC-to-DC Power Supplies

• Load regulation: ±0.5%

• Line regulation: ±0.5%

• UL/CE/TUV certified

\* Web Code: MSP



2077503

Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)*	Rip & Noise (mV p-p)	Size (L" x W" x H")	Pricing		
			Voltage@Current (min-max)	Power				1	5	25
2077503	Astec	ACV12N5	+12V @ 5.1A	61W	100-240 @ 47-63Hz	3.0	7.0 x 4.87 x 2.75	\$24.95	\$22.49	\$19.95
2077511	Astec	ACV15N4.5	+15V @ 4.5A	67.5W	100-240 @ 47-63Hz	3.0	7.0 x 4.87 x 2.75	24.95	22.49	19.95
2080454	Power One	HBB15-1.5A	+12V to 15V @ 1.7A/1.5A -12V to 15V @ 1.7A/1.5A	192W	100 or 240VAC @ 47-63Hz	5.0	7.0 x 4.88 x 2.50	59.95	53.95	47.95

\* Jumperable between 100VAC to 240VAC

## Open-Frame Medical Switching AC-to-DC Power Supplies



MPS-65

- Universal AC input/full range
- Soft-start circuit, limiting AC surge current
- Short-circuit, overload and overvoltage protection
- Load regulation: ±2.0%
- Volt. adjustment: 10%
- 100% full-load burn-in test
- Leakage current: 0.3mA @ 240V
- Isolation volt.: 4000VAC • 2.9 watts/in³ max.
- Line regulation: ±1.0%
- Inrush current: 20A @ 120VAC
- Working temp.: -10°C to +60°C
- Mating connector: P/N 104732, see web



\* Web Code: JBK

Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage @ Current (min-max)	Power				1	5	25
221058	Mean Well#R	MPS-45-7.5	+7.5V @ 0-5.4A	40.5W	90-264 @ 47-440	100	UL/CUL/TUV/CE	\$23.95	\$21.95	\$19.95
221146	Mean Well#R	MPS-65-7.5	+7.5V @ 0-8A	60.0W	90-264 @ 47-440	100	UL/CUL/TUV/CE	24.95	23.49	21.95
221066	Mean Well#R	MPS-45-12	+12V @ 0-3.7A	44.4W	90-264 @ 47-440	100	UL/CUL/TUV/CE	21.95	19.95	17.95
221154	Mean Well#R	MPS-65-12	+12V @ 0-5.2A	62.4W	90-264 @ 47-440	100	UL/CUL/TUV/CE	26.49	24.49	22.49
221162	Mean Well#R	MPS-65-13.5	+13.5V @ 0-4.7A	63.5W	90-264 @ 47-440	100	UL/CUL/TUV/CE	23.95	21.95	19.95
221189	Mean Well#R	MPS-65-24	+24V @ 0-2.7A	64.8W	90-264 @ 47-440	100	UL/CUL/TUV/CE	26.49	24.49	22.49
2081721	EOS	LFMVLT80-4000	+5V @ 10A, +12V @ 2A, -5V @ 8A, -12V @ 8A	80.0W	90-240 @ 47-63	80	UL/CE	49.95	44.95	39.95

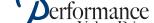
\* Primary Output

## Open-Frame Ultraminiature Switching AC-to-DC Power Supplies



OFM-0203

- 100% full-load burn-in test
- No load consumption
- Ultraminiature size and lightweight
- Short-circuit, overload, overvoltage, overtemperature protection
- Three-year warranty; except P/Ns 300433/300530: Two-year warranty
- Universal AC input/full range
- UL/CUL/TUV/CE



\* Web Code: CCQ



NFM-05

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Load Regulation	Line Regulation	Ripple & Noise (mV p-p)*	Pricing		
			Voltage @ Current (min-max)	Power					1	10	50
694971	Mean Well#R	NFM-05-5	+5V @ 0-1A	5W	2.3 x 1.8 x 0.8	±1.5%	±1.0%	80	\$19.95	\$17.95	\$15.95
300281	Mean Well	OFM-5001	+5V @ 0-1A	5W	2.3 x 1.8 x 0.8	±2.0%	±0.5%	50	16.95	14.95	13.95
300433	Astrodyne	OFM-0101	+5V @ 0-2A	10W	2.6 x 1.8 x 0.8	±1.0%	±1.0%	80	17.95	15.95	13.95
695199	Mean Well#R	NFM-20-5	+5V @ 0-4.4A	22W	3.0 x 2.0 x 0.8	±1.0%	±1.5%	80	24.95	22.95	20.95
694989	Mean Well#R	NFM-05-12	+12V @ 0-0.42A	5.04W	2.3 x 1.8 x 0.8	±0.5%	±0.5%	150	19.95	17.95	15.95
695156	Mean Well#R	NFM-15-12	+12V @ 0-1.25A	15W	2.8 x 1.9 x 0.9	±0.5%	±0.5%	150	24.95	22.49	19.95
300484	Mean Well	OFM-1502	+12V @ 0-1.25A	15W	2.8 x 1.9 x 0.8	±1.0%	±0.3%	150	23.95	21.95	19.95
300417	Mean Well	OFM-5003	+15V @ 0-0.33A	5W	2.3 x 1.8 x 0.8	±1.0%	±0.3%	150	14.95	12.95	11.95
300530	Mean Well	OFM-0203	+15V @ 0-1.4A	20W	3.5 x 2.0 x 0.8	±1.0%	±0.3%	150	21.95	19.95	18.49

\* Primary Output

Open-Frame Switching Power Supplies continued on pages 136 & 137

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



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## Open-Frame Switching AC-to-DC Power Supplies

\* Web Code: OSP

- Universal AC input/full range
- Short-circuit, overload and overvoltage protection
- Two-year warranty

### PFC Model Additional Features:

- Built-in active Power Factor Protection function, power factor >0.93
- Three-year warranty

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)



PPS-125      USP-225

Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Size (L"xW"xH")	Mounting Holes (L"xW"xDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	PFC	Pricing			
			Voltage @ Current (min-max)	Power								1	5	25	
<b>Single Output</b>															
218991	Artesyn	NLP150L-96S3	+3.3V @ 1-22A	72.6W	90-264 @ 47-63	6.8x3.8x1.3	6.5x3.5x0.2	50	2.0	2.0	—	UL/CSA/VDE/CE	\$79.95	\$74.95	\$69.95
694452	Mean Well®	USP-225-3.3	+3.3V @ 0-40A	132W	90-264 @ 47-63	8.0x4.0x1.5	see datasheet	100	1.0	0.5	✓	UL/CUL/TUV/CE/CB	74.95	69.95	64.95
694399	Mean Well®	USP-350-3.3	+3.3V @ 0-70A	231W	90-264 @ 47-63	9.3x4.0x1.5	see datasheet	80	1.0	0.5	✓	UL/CUL/TUV/CE	129.95	119.95	109.95
229042	Phihong®	PSA15LN3-050	+5V @ 0-3A	15W	90-264 @ 47-63	4.3x1.6x0.9	4.0x1.3x0.2	50	2.0	1.0	—	UL/CUL/TUV/CE	19.95	17.95	15.95
2081836	CUI Inc.	VOF-25-5	+5V @ 4.4A	25W	85-264 @ 47-63	3.5x2.0x0.9	3.2X1.7X0.2	50	5.0	5.0	—	UL/CUL/TUV/CE/FCC	11.95	10.49	9.49
212354	Mean Well®	PS-25-5	+5V @ 0-5A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7X2.1X0.1	80	2.0	0.5	—	UL/CUL/TUV/CE	14.95	13.95	12.95
210841	Power-One	MAP42-1005	+5V @ 0-8A	40W	120-240 @ 50-60	5.0x3.0x1.3	4.6x2.6x0.2	50	1.0	0.2	—	UL/CSA/TUV/CE	14.95	13.49	11.95
217332	Mean Well®	PS-45-5	+5V @ 0-8A	40W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	3.0	1.0	—	UL/CUL/TUV/CE	15.95	14.95	13.95
201938	Mean Well®	PS-65-5	+5V @ 0-12A	60W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	1.0	4.0	—	UL/CUL/TUV/CE	17.95	16.49	15.49
1586331	Phihong®	PSA120-050-R	+5V @ 0-15A	75W	40-264 @ 47-63	5.0x3.0x1.2	4.5x2.5x0.2	100	20.0	1.0	—	UL/CUL/TUV/CE	39.95	36.95	33.95
218915	Artesyn	NLP110-9605	+5V @ 0.5-15A	75W	90-264 @ 47-63	6.5x3.0x1.3	6.1x2.6x0.2	50	2.0	2.0	—	UL/CUL/CSA/VDE	42.95	39.95	36.95
1954439	Mean Well®	USP-500-5	+5V @ 0-80A	400W	90-264 @ 47-63	10.0x5.0x1.6	see datasheet†	80	2.0	0.5	✓	UL/CUL/TUV/CE	199.95	189.95	179.95
219011	Artesyn	NLP150L-96S5	+5.1V @ 1-22A	112.2W	90-264 @ 47-63	6.8x3.8x1.3	6.5x3.5x0.2	50	2.0	2.0	—	UL/CSA/VDE/CE	49.95	44.95	39.95
392826	Mean Well®	PS-25-7.5	+7.5V @ 0-3.3A	24.8W	85-264 @ 47-63	4.2x2.4x1.1	3.7X2.1X0.1	80	2.0	0.5	—	UL/CUL/TUV/CE	14.95	13.95	12.95
2105666	Mean Well®	PS-15-12	+12V @ 0-1.25A	15W	85-264 @ 47-63	3.7x1.9x1.0	3.4x1.9x0.14	150	0.5	0.5	—	CE/CB	10.95	9.95	8.95
229060	Phihong®	PSA15LN3-120	+12V @ 0-1.25A	15W	90-264 @ 47-63	4.3x1.6x0.9	4.0x1.3x0.2	120	2.0	1.0	—	UL/CUL/TUV/CE	19.95	17.95	16.49
148604	Mean Well®	PS-25-12	+12V @ 0-2.1A	25.2W	85-264 @ 47-63	4.2x2.4x1.1	3.7X2.1X0.1	100	2.0	0.3	—	UL/CUL/TUV/CE	14.49	12.95	11.95
213728	Mean Well®	PS-45-12	+12V @ 0-3.7A	44.4W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	15.95	14.95	13.95
148639	Mean Well®	PS-65-12	+12V @ 0-5.2A	62.4W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.15	100	2.0	1.0	—	UL/CUL/TUV/CE	17.95	16.49	15.49
2099981	ITE	SBU60-105	+12V @ 5.25A	63W	90-264 @ 47-63	5.0x3.0x1.1	4.6x2.6x0.15	120	3.0	0.5	—	UL/CUL/CE	15.95	14.49	12.95
173472	Mean Well®	LPS-100-12	+12V @ 0-8.4A	100.8W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.14	100	1.5	0.5	✓	UL/CUL/TUV/CE	41.95	38.95	35.95
237024	Lite-On	PA-1101-1	+12V @ 2-8.5A	102W	85-264 @ 47-63	6.0x4.0x1.3	—	1200	10.0	1.0	—	UL/CUL/TUV/CE	34.95	31.95	28.95
2079373	PowerLD®	PD-125-12	+12V @ 0-10.5A	126W	90-264 @ 47-63	5.0x3.0x1.2	4.6x2.6x0.14	100	2.0	0.5	—	UL/CUL/CE	49.95	44.95	39.95
374089	Mean Well®	PPS-125-12	+12V @ 0-10.5A	126W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	56.95	52.95	49.95
213681	Mean Well®	LPP-150-12	+12V @ 0-12.5A	150W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.15	100	1.0	0.5	✓	UL/CUL/TUV/CE	49.95	46.95	43.95
668713	Mean Well®	PPS-200-12	+12V @ 0-16.6A	199.2W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	84.95	79.95	74.95
374380	Mean Well®	PS-65-13.5	+13.5V @ 0-5.4A	63.5W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.15	100	2.0	1.0	—	UL/CUL/TUV/CE	17.95	16.49	15.49
374345	Mean Well®	LPS-100-13.5	+13.5V @ 0-7.5A	101.3W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.14	100	1.5	0.5	—	UL/CUL/TUV/CE	38.95	35.95	32.95
216769	Mean Well®	PS-25-15	+15V @ 0-1.7A	25.5W	85-264 @ 47-63	4.2x2.4x1.1	3.7X2.1X0.1	100	2.0	0.3	—	UL/CUL/TUV/CE	14.95	13.95	12.95
1919019	Mean Well®	PS-35-15	+15V @ 0-2.4A	36W	90-264 @ 47-440	4.0x2.0x0.9	3.8x1.8x0.1	150	0.5	0.5	—	UL/CUL/TUV/CE/CB	15.75	14.75	13.75
374353	Mean Well®	PS-45-15	+15V @ 0-3.5A	45W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	3.0	1.0	—	UL/CUL/TUV/CE	15.95	14.95	13.95
216751	Mean Well®	PS-65-15	+15V @ 0-4.2A	63W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	17.95	16.49	15.49
374097	Mean Well®	PPS-125-15	+15V @ 0-8.4A	126W	90-264 @ 47-63	5.0x2.4x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	56.95	52.95	49.95
668721	Mean Well®	PPS-200-15	+15V @ 0-13.3A	199.5W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	84.95	79.95	74.95
212346	Mean Well®	PS-25-24	+24V @ 0-1A	24W	85-264 @ 47-63	4.2x2.4x1.1	3.7X2.1X0.1	240	2.0	0.2	—	UL/CUL/TUV/CE	14.49	12.95	11.95
1919035	Mean Well®	PS-35-24	+24V @ 0-1.5A	36W	90-264 @ 47-440	4.0x2.0x0.9	3.8x1.8x0.1	200	0.5	0.5	—	UL/CUL/TUV/CE/CB	15.75	14.75	13.75
213720	Mean Well®	PS-45-24	+24V @ 0-1.9A	45.6W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	15.95	14.95	13.95
148647	Mean Well®	PS-65-24	+24V @ 0-2.7A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	17.95	16.49	15.49
244727	Mean Well®	LPS-75-24	+24V @ 0-3.5A	76.8W	90-264 @ 47-63	8.7x2.2x1.2	8.4x1.8x0.2	120	1.0	1.0	✓	UL/CUL/TUV/CE	24.95	22.95	20.95
173463	Mean Well®	LPS-100-24	+24V @ 0-4.2A	100.8W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.1	150	0.5	0.5	✓	UL/CUL/TUV/CE	41.95	38.95	35.95
301429	Mean Well®	PPS-125-24	+24V @ 0-5.2A	124.8W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.1	150	1.0	0.5	✓	UL/CUL/TUV/CE	56.95	52.95	49.95
213672	Mean Well®	LPP-150-24	+24V @ 0-6.3A	150W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.2	150	0.5	0.5	✓	UL/CUL/TUV/CE	49.95	46.95	43.95
668730	Mean Well®	PPS-200-24	+24V @ 0-8.3A	199.2W	90-264 @ 47-63	5.0x3.0x1.4	3.7x7.8x0.14	150	1.0	0.5	✓	UL/CUL/TUV/CE	84.95	79.95	74.95
694495	Mean Well®	USP-225-24	+24V @ 0-9.4A	225.6W	90-264 @ 47-63	8.0x4.0x1.5	see datasheet†	150	1.0	0.5	✓	UL/CUL/TUV/CE/CB	74.95	69.95	64.95
201946	Mean Well®	PS-65-27	+27V @ 0-2.4A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	17.95	16.49	15.49
236882	Mean Well®	LPP-100-27	+27V @ 0-3.8A	102.6W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.1	150	0.5	0.5	✓	UL/CUL/TUV/CE	39.95	36.95	33.95
201954	Mean Well®	PS-65-48	+48V @ 0-1.35A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	17.95	16.49	15.49
216710	Mean Well®	LPS-100-48	+48V @ 0-2.1A	100.8W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.1	200	0.5	0.5	✓	UL/CUL/TUV/CE	38.95	35.95	32.95
216646	Mean Well®	LPP-150-48	+48V @ 0-3.2A	153.6W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.2	250	0.5	0.5	✓	UL/CUL/TUV/CE	49.95	46.95	43.95
694508	Mean Well®	USP-225-48	+48V @ 0-4.7A	225.6W	90-264 @ 47-63	8.0x4.0x1.5	see datasheet†	250	1.0	0.5	✓	UL/CUL/TUV/CE/CB	74.95	69.95	64.95
1954463	Mean Well®	USP-500-48	+48V @ 10.5A	504W	90-264 @ 47-63	10.0x5.0x1.6	see datasheet†	150	1.0	0.5	✓	UL/CUL/TUV/CE	199.95	189.95	179.95

\* Primary Output    † Multiple sets of mounting holes, see datasheet for dimensions

More Open-Frame Switching Power Supplies on pages 135 & 137

**R** RoHS compliant product    + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).

## Open-Frame Switching AC-to-DC Power Supplies (Continued)

\* Web Code: OSP

• Universal AC input/full range • Short-circuit, overload and overvoltage protection

• Two-year warranty

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)



PT-65

Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Size (L"xW"xH")	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	PFC	Certification	Pricing		
			Voltage @ Current (min-max)	Power									1	5	25
<b>Double Output</b>															
171731	Delta	DPS-60MPB	+3.3V @ 0.8-8A; +5V @ 1.9A	65W	90-270 @ 47-63	5.8x3.3x1.4	5.1x3.7x0.1	50	2.0	2.0	—	UL/CUL/TUV	\$10.95	\$9.95	\$8.95
212312	Mean Well	PD-2505	+5V @ 0.1-3A; -5V @ 0.1-2.5A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.08x0.1	50	4.0	1.0	—	UL/CUL/TUV/CE	19.95	18.49	16.95
212338	Mean Well	PD-25A	+5V @ 0.2-2.5A; +12V @ 0.1-1.5A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.08x0.1	50	1.0	0.5	—	UL/CUL/TUV/CE	16.95	15.95	14.95
212330	Mean Well	PD-25B	+5V @ 0.2-2A; +24V @ 0.1-1A	25.2W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	1.0	0.5	—	UL/CUL/TUV/CE	16.95	15.95	14.95
194862	Mean Well	PD-45A	+5V @ 0.4-3.2A; +12V @ 0.2-2	40W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	17.95	16.95	15.95
194871	Mean Well	PD-45B	+5V @ 0.4-3.2A; +24V @ 0.2-1.2A	44.8W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	17.95	16.95	15.95
194889	Mean Well	PD-65A	+5V @ 0.4-7A; +12V @ 0.2-3.2A	61.1W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	19.95	18.95	17.95
692377	Autec	UPS65-1002	+5V @ 0.5-3.5A; +12V @ 0.1-4A	65W	90-260 @ 47-63	6.0x3.5x1.5	4.8x3.2x0.2	50	2.0	0.5	—	UL/CSA/TUV	19.95	17.95	15.95
194897	Mean Well	PD-65B	+5V @ 0.4-3.5A; +24V @ 0.2-2A	65.5W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	19.95	18.95	17.95
375056	Mean Well	PD-110B	+5V @ 0.5-5A; +24V @ 0.5-3.5A	109W	100-264 @ 47-63	7.0x4.3x1.8	6.5x3.8x0.1	100	1.0	1.0	—	UL/CUL/TUV/CE	43.95	39.95	36.95
148690	Mean Well	PD-2512	+12V @ 0.1-1.2A; -12V @ 0.1-1A	24W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	3.0	0.5	—	UL/CUL/TUV/CE	15.95	14.95	13.95
2100857	Mean Well	PD-25-15	+15V @ 1A; -5V @ 1A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	3.0	0.5	—	EN/TUV/UL	19.95	17.95	16.49
<b>Triple Output</b>															
230536	Phihong	PSA25L-301	+5V @ 0.2-2A; +12V @ 0.1-1A; -12V @ 0-0.3A	25W	90-264 @ 47-63	4.3x1.6x0.9	3.7x2.1x0.1	50	2.0	1.0	—	UL/CUL/TUV/CE	\$24.95	\$22.95	\$20.95
2081617	Artesyn	NFN40-7607	+5V @ 3A; +12V @ 2A; -5V @ 0.35A	40W	85-264 @ 47-440	5.0x3.0x1.2	4.6x2.6x0.15	50	2.0	1.0	—	UL/CSA/TUV	24.95	22.49	19.95
229122	Phihong	PSA4531	+5V @ 0-4A; +12V @ 0-1.5A; -12V @ 0-0.5A	44W	90-264 @ 47-63	5.0x3.0x1.2	4.6x2.6x0.2	50	2.0	1.0	—	UL/CSA/TUV/CE	34.95	31.95	28.95
88402	Mean Well	PT-45B	+5V @ 0.4-3A; +12V @ 0.2-2A; -12V @ 0-0.3A	45W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	19.95	18.49	16.95
229140	Phihong	PSA4534	+5V @ 0-4A; +15V @ 0-1.2A; -15V @ 0-0.5A	45.5W	90-264 @ 47-63	5.0x3.0x1.2	4.6x2.6x0.16	50	2.0	2.0	—	UL/CSA/TUV/CE	34.95	31.95	28.95
216734	Mean Well	PT-65B	+5V @ 0.4-5.5A; +12V @ 0.2-2.5A; -12V @ 0-0.5A	63.5W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	22.95	20.95	19.49
216726	Mean Well	PT-65C	+5V @ 0.4-5.5A; +15V @ 0.2-2A; -15V @ 0-0.5A	65W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	22.95	20.95	19.49
215707	Mean Well	PT-65D	+5V @ 0.5-4A; +12V @ 0.2-2A; -24V @ 0.2-1A	65W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50	2.0	1.0	—	UL/CUL/TUV/CE	22.95	20.95	19.49
301487	Mean Well	PPT-125B	+5V @ 1-14.4A; +12V @ 0.3-3.8A; -12V @ 0.05-0.63A	99.5W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.1	100	3.0	0.5	✓	UL/CUL/TUV/CE	56.95	53.95	51.95
301495	Mean Well	PPT-125C	+5V @ 1-13.8A; +15V @ 0.25-3.1A; -15V @ 0.05-0.63A	125.1W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.2	100	3.0	0.5	✓	UL/CUL/TUV/CE	56.95	53.95	51.95
<b>Quad Output</b>															
673934	Martek Power	PVI-50-46BUB	+5V @ 6.5A; +3.3V @ 2.5A; -12V @ 0.8A; -12V @ 0.5A	57W	100-240 @ 50-60	8.1x3.2x1.5	7.6x2.6x0.15	50	2.0	2.0	—	UL/CUL/CSA/TUV/CE	\$34.95	\$31.95	\$28.95
2081721	EOS **	LFMVLT80-4000	+5V @ 10A; +12V @ 2A; -5V @ 0.8A; -12V @ 0.8A	80W	90-240 @ 47-63	3.0x5.0x1.0	4.55x2.55	80	1.0	1.0	—	UL/CE	49.95	44.95	39.95
217277	Mean Well	PPQ-100B	+5V @ 2-10A; +12V @ 0.3-3.4A; -5V @ 0-0.6A; -12V @ 0-0.6A	101W	90-264 @ 47-63	7.0x4.3x1.6	6.5x3.8x0.2	100	2.0	1.0	✓	UL/CUL/TUV/CE	26.95	24.95	22.95
645298	Mean Well	PQ-100DTR	+5V @ 5A; +12V @ 2A; -12V @ 2A; +24V @ 2A	103W	100-264 @ 47-63	7.0x4.3x1.8	6.5x3.8x0.2	80	1.0	1.0	—	—	39.95	34.95	29.95

\* Primary Output

\*\* Medical rated

Blue Part No. = Limited Quantity Available

## Enclosed Switching AC-to-DC Power Supplies

Specs & Images on next page

\* Web Code: EPS

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info pg 138 †	Certification	Pricing		
			Voltage @ Current (min-max)	Power							1	5	25
<b>Single Output</b>													
693193	Mean Well	RS-25-3.3	+3.3V @ 0-6A	19.8W	3.0x2.0x1.1	80	2.0	0.5	1	UL/CUL/TUV/CE/CB	\$18.49	\$16.95	\$15.95
693329	Mean Well	RS-150-3.3	+3.3V @ 0-30A	99W	7.8x3.9x1.5	80	2.0	0.5	1	UL/CUL/TUV/CE/CB	41.95	38.95	35.95
201903	Mean Well	SP-150-3.3-R	+3.3V @ 0-30A	99W	7.0x3.9x2.0	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	52.95	49.95
693636	Mean Well	SP-480-3.3	+3.3V @ 0-85A	280.5W	10.9x5.0x1.7	80	1.0	0.5	3	UL/CUL/TUV/CE/CB	144.95	134.95	124.95
692422	Volgen	SX15U-05S	+5V @ 0-3A	15W	3.3x2.7x1.3	100	0.8	0.8	—	UL/CSA	14.95	13.49	11.95
689848	Metapo	1M150C05-1M	+5V @ 0-3A	15W	3.9x3.8x1.4	100	0.5	1.0	—	UL/CUL/TUV/CE/CB	15.95	14.49	12.95
1919043	Mean Well	RS-15-5	+5V @ 0-3A	15W	2.5x2.0x1.1	80	1.5	0.5	1	UL/CUL/TUV/CE/CB	14.95	13.95	12.95
323282	Mean Well	RS-25-5	+5V @ 0-5A	25W	3.1x2.0x1.1	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	18.49	16.95	15.95
123247	Mean Well	S-25-5	+5V @ 0-5A	25W	3.9x3.8x1.4	50	1.0	0.5	2	UL/TUV/CE	18.49	17.49	16.49
323329	Mean Well	RS-35-5	+5V @ 0-7A	35W	3.9x3.2x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	19.95	18.95	17.95
689805	Metapo	1M041C05-1M	+5V @ 0-8A	40W	4.8x3.8x1.5	75	—	—	—	UL/CUL/TUV/CE	19.95	17.95	16.49
123290	Mean Well	S-40-5	+5V @ 0-8A	40W	5.1x3.9x1.5	75	1.0	0.5	2	UL/CUL/TUV/CE/CB	21.49	19.95	18.95

\* Primary Output    † Additional Infos on next page

More Enclosed Switching Power Supplies continued on pages 138-142

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) More and Enter Web Code Listed Above



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# Enclosed Switching AC-to-DC Power Supplies

3 LEVELS OF SAVINGS  
**NAME BRANDS** **HOUSE BRANDS** **FACTORY OVERRUN**

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## Enclosed Switching AC-to-DC Power Supplies (Continued)

\* Web Code: EPS

• 100% full-load burn-in test For complete specifications visit [www.Jameco.com](http://www.Jameco.com)

### †Additional Info:

**1 G3 Series:** Miniature size, high reliability, suitable for critical applications • 88-264VAC @47-63Hz • 5G vibration  
 • 70°C operation • Withstand 300VAC surge input for 5 sec. • Short-circuit/overload/overvoltage protection • Three-year warranty

**2 G2 Series:** Without CE certification for models more than 200W (except for S-240) • 85-264VAC @47-63Hz

• Universal AC input (25-60W), Switch selectable AC input (100-150W), AC input range auto-sensing (240W) • Two-year warranty

**3 PFC Series:** Built-in active Power Factor Correction function • Power factor >0.93 • 88-264VAC @47-63Hz

• Universal AC input • Three-year warranty

**4 Parallel Series:** Built-in remote sense, remote On/Off control & Parallel functions • 115V & 220V versions @ 47-63Hz

• Short-circuit/overvoltage/overload/overtemperature protection

**5 Parallel Series with PFC:** Same as parallel series with Power Factor Correction

**6 C5 Series:** Built-in active PFC function • 1U low profile 38mm • 85-264VAC @ 47-63Hz

• High efficiency up to 89% • Withstand 300VAC surge input for 5 sec. • Five-year warranty



SCN-600

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info (above)†	Certification	Pricing		
			Voltage @ Current (min-max)	Power							1	5	25
Single Output (Continued)													
689784	Metapo	1M051C05-0M	+5V @ 0-10A	50W	6.0x3.7x1.5	100	—	—	—	UL/CUL	\$21.95	\$19.95	\$17.95
323388	Mean Well®	RS-50-5	+5V @ 0-10A	50W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	23.95	21.95	19.95
2079390	PowerLD®	PD-60-5	+5V @ 0-10A	50W	5.1x3.9x1.5	50	2.0	0.5	—	UL/CUL/CE	34.95	32.49	29.95
<b>689768</b>	Potrans®	FS-06005-0M	+5V @ 0-12A	60W	5.1x3.9x1.5	120	—	—	—	UL/CUL/CE	<b>21.95</b>	<b>19.95</b>	<b>17.95</b>
123327	Mean Well®	S-60-5	+5V @ 0-12A	60W	6.3x3.8x1.5	120	1.0	0.5	2	UL/CUL/TUV/CE/CB/PFC	23.49	21.95	20.95
194830	Mean Well®	SP-75-5	+5V @ 0-15A	75W	7.0x3.9x1.3	80	1.0	0.5	3	UL/CUL/TUV/CE/CB	44.95	42.49	39.95
323708	Mean Well®	RS-100-5	+5V @ 0-16A	80W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	36.95	34.95	32.95
201962	Mean Well®	S-100F-5	+5V @ 0-20A	100W	7.8x3.9x1.5	100	1.0	0.5	2	UL/CUL/TUV/CE/CB	28.95	26.95	24.95
194791	Mean Well®	SP-100-5	+5V @ 0-20A	100W	7.0x3.9x1.8	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	49.95	46.95	43.95
323821	Mean Well®	RS-150-5	+5V @ 0-26A	130W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	41.95	38.95	35.95
123394	Mean Well®	S-150-5	+5V @ 0-30A	150W	7.0x4.3x2.0	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
201912	Mean Well®	SP-150-5	+5V @ 0-30A	150W	7.0x3.9x2.0	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	52.95	49.95
202042	Mean Well®	SP-200-5	+5V @ 0-40A	200W	7.0x3.9x2.0	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95
2102490	Mean Well®	SP-240-5	+5V @ 0-45A	225W	7.5x3.7x2.0	150	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	55.95
216776	Mean Well	S-320-5	+5V @ 0-50A	250W	8.5x4.5x2.0	150	1.0	0.5	2	UL/CUL	69.95	64.95	59.95
<b>2079437</b>	PowerLD®	GPF-U300S5	+5V @ 0-50A	250W	8.9x4.5x2.0	150	2.0	1.0	—	UL/CUL/CE	79.95	69.95	64.95
244735	Mean Well®	SP-320-5	+5V @ 0-55A at 230VAC; 0-44A at 115VAC	275W	8.5x4.5x2.0	150	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
2076295	Mean Well®	PSP-600-5	+5V @ 0-80A	400W	6.7x4.7x3.7	180	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95
693644	Mean Well®	SP-480-5	+5V @ 0-85A	425W	10.9x5.0x1.7	80	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	154.95	144.95	134.95
374002	Mean Well	SE-600-05	+5V @ 0-100A	500W	9.7x5.0x2.5	150	2.0	0.5	2	UL/CUL	114.95	106.95	99.95
220249	Mean Well	SCN-600-05	+5V @ 0-100A	500W	11.5x5.2x2.7	100	2.0	0.5	4	UL/CUL/CB	224.95	209.95	199.95
693661	Mean Well®	SP-750-5	+5V @ 0-120A	600W	10.9x5.0x2.5	120	2.0	0.5	3	UL/CUL/TUV/CE/CB	229.95	214.95	199.95
231669	Mean Well®	PSP-1500-5	+5V @ 0-217.5A	1087.5W	10.9x5.1x7.5	100	2.0	0.5	5	UL/CUL/TUV/CE/CB	324.95	299.95	279.95
123415	Mean Well®	S-150-7.5	+7.5V @ 0-20A	150W	7.0x4.3x2.0	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
693556	Mean Well®	S-240-7.5	+7.5V @ 0-30A	225W	7.5x3.7x2.6	200	1.0	0.5	2	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	66.95
207212	Mean Well	S-320-7.5	+7.5V @ 0-36A	270W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	69.95	64.95	59.95
394215	Mean Well®	SP-320-7.5	+7.5V @ 0-40A	300W	8.5x4.5x2.0	150	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
1919051	Mean Well®	RS-15-12	+12V @ 0-1.3A	15.6W	2.5x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	14.95	13.95	12.95
323300	Mean Well®	RS-25-12	+12V @ 0-2.1A	25.2W	3.0x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	18.49	16.95	15.95
123255	Mean Well®	S-25-12	+12V @ 0-2.1A	25.2W	3.9x3.8x1.4	100	0.5	0.5	2	UL/TUV/CE	18.49	17.49	16.49
323337	Mean Well®	RS-35-12	+12V @ 0-3A	36W	3.9x3.2x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	19.95	18.95	17.95
689830	Metapo	1M041C12-1M	+12V @ 0-3.5A	42W	3.9x3.8x1.4	100	—	—	—	UL/CUL/TUV/CE	<b>19.95</b>	<b>17.95</b>	<b>16.49</b>
123298	Mean Well®	S-40-12	+12V @ 0-3.5A	42W	5.1x3.9x1.5	100	0.5	0.5	2	UL/CUL/TUV/CE/CB	21.49	19.95	18.95
689821	Metapo	1M051C12-1M	+12V @ 0-4.2A	50W	6.0x3.7x1.5	100	—	—	—	UL/CUL/TUV/CE	<b>22.95</b>	<b>20.95</b>	<b>18.95</b>
323396	Mean Well®	RS-50-12	+12V @ 0-4.2A	50.4W	3.9x3.8x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	23.95	21.95	19.95
689813	Potrans®	1M061C05-1M	+12V @ 0-5A	60W	3.9x3.8x1.4	120	—	—	—	UL/TUV/CE	<b>21.95</b>	<b>19.95</b>	<b>18.49</b>
123335	Mean Well®	S-60-12	+12V @ 0-5A	60W	6.3x3.8x1.5	120	0.5	0.5	2	UL/CUL/TUV/CE/CB	23.49	21.95	20.95
323599	Mean Well®	RS-75-12	+12V @ 0-6A	72W	5.1x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	26.95	24.95	22.95
194838	Mean Well®	SP-75-12	+12V @ 0-6.3A	75.6W	7.0x3.9x1.3	80	0.5	0.5	3	UL/CUL/TUV/CE/CB	44.95	42.49	39.95
123386	Mean Well®	S-100F-12	+12V @ 0-8.5A	102W	7.8x3.9x1.5	125	0.5	0.5	2	UL/TUV/CE/CB	28.95	26.95	24.95
323716	Mean Well®	RS-100-12	+12V @ 0-8.5A	102W	6.3x3.8x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	36.95	34.95	32.95
194803	Mean Well®	SP-100-12	+12V @ 0-8.5A	102W	7.0x3.9x1.8	100	0.5	0.5	1	UL/CUL/TUV/CE/CB/PFC	49.95	46.95	43.95
123423	Mean Well®	S-150-12	+12V @ 0-12.5A	150W	7.0x4.3x2.0	180	0.3	0.3	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
323839	Mean Well®	RS-150-12	+12V @ 0-12.5A	150W	7.8x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	41.95	38.95	35.95
173421	Mean Well®	SP-150-12	+12V @ 0-12.5A	150W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	52.95	49.95
2094848	Mean Well®	HRPG-150-12	+12V @ 0-13A	156W	6.3x3.8x1.5	120	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	84.95	79.95	74.95
<b>2102123</b>	Mean Well®	HLG-240-12A	+12V @ 16A	240W	9.6x2.7x1.5	150	2.0	0.5	—	CNS/EN/FCC/GB/TUV/JEC	<b>109.95</b>	<b>99.95</b>	<b>94.95</b>
194774	Mean Well®	SP-200-12	+12V @ 0-16.7A	200.4W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95
137649	Mean Well®	S-240-12	+12V @ 0-18A	216W	7.5x3.7x2.6	150	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	66.95

\* Primary Output    **Blue Part No.** = Limited Quantity Available

More Enclosed Switching Power Supplies on pages 137 & 139-141

**RoHS compliant product**    **+** This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).



SP-500

\* Web Code: EPS

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 138†	Certification	Pricing		
			Voltage @ Current(min-max)	Power							1	5	25
<b>Single Output (Continued)</b>													
2101497	Mean Well®	SP-240-12	+12V @ 0-20A	240W	7.5x3.7x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	\$64.95	\$59.95	\$55.95
207204	Mean Well	S-320-12	+12V @ 0-25A	300W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	69.95	64.95	59.95
244743	Mean Well®	SP-320-12	+12V @ 0-25A at 230VAC; 0-20A @ 115VAC	300W	8.5x4.5x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
2102203	Mean Well®	HRP-300-12	+12V @ 0-27A	324W	7.8x4.1x1.6	120	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	114.95	104.95	94.95
2094872	Mean Well®	HRPG-300-12	+12V @ 0-27A	324W	7.8x4.1x1.6	120	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	119.95	114.95	109.95
2094928	Mean Well®	SE450-12	+12V @ 0-37.5A	450W	8.9x4.9x2.0	200	1.0	0.5	2	UL/CUL/TUV/CE/CB/PFC	99.95	92.95	86.95
301373	Mean Well®	SP-480-12	+12V @ 0-40A at 230VAC; 0-36A @ 115VAC	480W	10.9x5.0x1.7	120	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	154.95	144.95	134.95
190693	Mean Well®	SP-500-12	+12V @ 0-40A at 230VAC; 0-34A @ 115VAC	480W	6.7x4.7x3.7	240	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95
374011	Mean Well	SE-600-12	+12V @ 0-50A	600W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	114.95	106.95	99.95
374214	Mean Well®	PSP-600-12	+12V @ 0-50A	600W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95
220257	Mean Well	SCN-600-12	+12V @ 0-50A	600W	11.5x5.2x2.7	120	1.0	0.5	4	UL/CUL/CB	224.95	209.95	194.95
388631	Mean Well®	SCP-600-12	+12V @ 0-50A	600W	11.4x4.7x2.7	120	0.5	0.5	5	UL/CUL/TUV/CE/CB	199.95	189.95	179.95
2094961	Mean Well®	HRPG-600-12	+12V @ 0-53A	636W	8.6x4.1x2.5	120	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	189.95	174.95	164.95
319944	Mean Well®	SP-750-12	+12V @ 0-62A	750W	10.9x5.0x2.5	120	0.5	0.3	3	UL/CUL/TUV/CE/CB	229.95	214.95	199.95
217366	Mean Well®	PSP-1000-12	+12V @ 0-75A at 230VAC; 0-63.8A @ 115VAC	900W	10.9x5.1x5.0	150	0.5	0.3	5	UL/CUL/TUV/CE/CB/PFC	399.95	369.95	349.95
373261	Mean Well	PSP-1500-12	+12V @ 0-112.5A	1350W	10.9x5.1x7.5	150	0.5	0.3	5	UL/CUL/TUV/CE/CB/PFC	499.95	474.95	449.95
202025	Mean Well®	S-150-13.5	+13.5V @ 0-11.2A	151.2W	7.0x4.3x2.0	180	0.3	0.3	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
394193	Mean Well	SP-150-13.5	+13.5V @ 0-11.2A	151.2W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	52.95	49.95
212410	Mean Well®	SP-200-13.5	+13.5V @ 0-14.9A	201.1W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95
693572	Mean Well®	S-320-13.5	+13.5V @ 0-22A	297W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	69.95	64.95	59.95
693599	Mean Well®	SP-320-13.5	+13.5V @ 0-22A	297W	8.5x4.5x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
212389	Mean Well®	SP-500-13.5	+13.5V @ 0-36A at 230VAC; 0-30.6A @ 115VAC	486W	6.7x4.7x3.7	240	0.5	0.5	3	UL/CUL/TUV/CE/CB	149.95	139.95	129.95
1919060	Mean Well®	RS-15-15	+15V @ 0-1A	15W	2.5x0.2x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	14.95	13.95	12.95
123263	Mean Well®	S-25-15	+15V @ 0-1.7A	25.5W	3.9x3.8x1.4	100	0.5	0.5	2	UL/TUV/CE	18.49	17.49	16.49
323302	Mean Well®	RS-25-15	+15V @ 0-1.7A	25.5W	3.0x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	18.49	16.95	15.95
323345	Mean Well®	RS-35-15	+15V @ 0-2.4A	36W	3.9x3.2x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	19.95	18.95	17.95
155053	Skynet	SNP-9548-M1	+15V @ 2.6A	39W	5.0x3.0x1.2	100	1.0	1.0	—	UL/CUL/CSA	19.95	17.95	15.95
202140	Mean Well®	S-40-15	+15V @ 0-2.8A	42W	5.1x3.9x1.5	100	0.5	0.5	2	UL/CUL/TUV/CE/CB	21.49	19.95	18.95
323409	Mean Well®	RS-50-15	+15V @ 0-3.4A	51W	3.9x3.8x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	23.95	21.95	19.95
123343	Mean Well®	S-60-15	+15V @ 0-4A	60W	6.3x3.8x1.5	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	23.49	21.95	20.95
323602	Mean Well®	RS-75-15	+15V @ 0-5A	75W	5.1x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	26.95	24.95	22.95
194845	Mean Well+	SP-75-15	+15V @ 0-5A	75W	7.0x3.9x1.3	80	0.5	0.5	3	UL/CUL/TUV/CE/CB	42.95	39.95	37.95
212450	Mean Well	S-100F-15	+15V @ 0-6.7A	100.5W	7.8x3.9x1.5	125	0.5	0.5	2	UL/CUL/TUV/CE/CB	28.95	26.95	24.95
212433	Mean Well	SP-100-15	+15V @ 0-6.7A	100.5W	7.0x3.9x1.8	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	49.95	46.95	43.95
323724	Mean Well®	RS-100-15	+15V @ 0-7A	105W	6.3x3.8x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	36.95	34.95	32.95
123432	Mean Well®	S-150-15	+15V @ 0-10A	150W	7.0x4.3x2.0	180	0.3	0.3	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
323847	Mean Well®	RS-150-15	+15V @ 0-10A	150W	7.8x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	41.95	38.95	35.95
173412	Mean Well®	SP-150-15	+15V @ 0-10A	150W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	52.95	49.95
2094856	Mean Well®	HRPG-150-15	+15V @ 0-10A	150W	6.3x3.8x1.5	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	84.95	79.95	74.95
202060	Mean Well®	SP-200-15	+15V @ 0-13.4A	201W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95
202076	Mean Well®	S-240-15	+15V @ 0-15A	225W	7.5x3.7x2.6	150	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	66.95
2101500	Mean Well®	SP-240-15	+15V @ 0-16A	240W	7.5x3.7x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	55.95
374993	Mean Well	S-320-15	+15V @ 0-20A	300W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	69.95	64.95	59.95
693610	Mean Well®	SP-320-15	+15V @ 0-20A	300W	8.5x4.5x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
693652	Mean Well®	SP-480-15	+15V @ 0-35A	480W	10.9x5.0x1.7	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	154.95	144.95	134.95
291522	Mean Well	SE-600-15	+15V @ 0-40A	600W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	114.95	106.95	99.95
374222	Mean Well®	PSP-600-15	+15V @ 0-40A	600W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	144.95	134.95	124.95
374045	Mean Well	SCN-600-15	+15V @ 0-40A	600W	11.5x5.2x2.7	150	0.5	0.5	4	UL/CUL/CB	199.95	189.95	179.95
2094901	Mean Well®	HRPG-600-15	+15V @ 0-43A	645W	8.6x4.1x2.5	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	189.95	174.95	164.95
374029	Mean Well®	SP-750-15	+15V @ 0-50A	750W	10.9x5.0x2.5	120	0.5	0.3	3	UL/CUL/TUV/CE/CB	199.95	184.95	169.95
231693	Mean Well	PSP-1500-15	+15V @ 0-90A	1350W	10.9x5.1x7.5	150	0.5	0.3	5	UL/CUL/TUV/CE/CB	499.95	474.95	449.95
694920	Mean Well®	RSP-1500-15	+15V @ 0-100A	1500W	10.9x5.0x3.3	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	424.95	389.95	359.95
1919078	Mean Well®	RS-15-24	+24V @ 0-0.625A	15W	2.5x2.0x1.1	200	0.5	0.5	1	UL/CUL/TUV/CE/CB	14.95	13.95	12.95
123272	Mean Well®	S-25-24	+24V @ 0-1.1A	26.4W	3.9x3.8x1.4	100	0.5	0.5	2	UL/TUV/CE	18.49	17.49	16.49
323311	Mean Well®	RS-25-24	+24V @ 0-1.1A	26.4W	3.0x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	18.49	16.95	15.95
323353	Mean Well®	RS-35-24	+24V @ 0-1.5A	36W	3.9x3.2x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	19.95	18.95	17.95
689792	Metapo	1M041C24-1M	+24V @ 0-1.8A	43W	4.8x3.8x1.5	100	—	—	—	UL/CUL/TUV/CE	19.95	17.95	15.95
123319	Mean Well®	S-40-24	+24V @ 0-1.8A	43W	5.1x3.9x1.5	100	0.5	0.5	2	UL/CUL/TUV/CE/CB	21.49	19.95	18.95
2104225	Mean Well®	NES-50-24	+24V @ 0-2.2A	52.8W	5.1x3.9x1.5	200	0.5	0.5	—	UL/CUL/CE/CB	23.95	21.95	19.95
323417	Mean Well®	RS-50-24	+24V @ 0-2.2A	52.8W	3.9x3.8x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	23.95	21.95	19.95
123352	Mean Well®	S-60-24	+24V @ 0-2.5A	60W	6.3x3.8x1.5	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	23.49	21.95	20.95
323620	Mean Well®	RS-75-24	+24V @ 0-3.2A	76.8W	5.1x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	26.95	24.95	22.95
194854	Mean Well®	SP-75-24	+24V @ 0-3.2A	76.8W	7.0x3.9x1.3	100	0.5	0.5	3	UL/CUL/TUV/CE/CB	44.95	42.49	39.95

\* Primary Output

More Enclosed Switching Power Supplies on pages 137-138 & 140-142

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



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## Enclosed Switching AC-to-DC Power Supplies (Continued)



\* Web Code: EPS

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (%)*	Line Reg. (%)*	Additional Info Pg. 138†	Certification	Pricing								
			Voltage @ Current (min-max)								1	5	25						
			Single Output (Continued)																
194812	Mean Well®	SP-100-24	+24V @ 0-4.2A	100.8W	7.0x3.9x1.8	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	\$49.95	\$46.95	\$43.95						
201971	Mean Well®	S-100F-24	+24V @ 0-4.5A	108W	7.8x3.9x1.5	150	0.5	0.5	2	UL/TUV/CE/CB	28.95	26.95	24.95						
323732	Mean Well®	RS-100-24	+24V @ 0-4.5A	108W	6.3x3.8x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	36.95	34.95	32.95						
<b>155651</b>	Power One®	MAP110-1024CM	+24V @ 5A or +28V @ 4.3A	110W	7.0x4.3x1.8	240	0.5	1.0	—	UL/CSA/TUV	34.95	29.95	26.95						
1945920	APS	RP1150-24C	+24V @ 0-6.25A	150W	7.5x4.2x2.0	100	1.0	1.0	—	UL/CE	39.95	36.95	33.95						
173404	Mean Well®	SP-150-24	+24V @ 0-6.25A	150W	7.0x3.9x2.0	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	52.95	49.95						
371012	Potrans	GL150W-24-NC	+24V @ 6.5A	156W	7.8x3.7x2.5	180	2.0	2.0	—	UL/CUL/TUV/CE	29.95	26.95	23.95						
123450	Mean Well®	S-150-24	+24V @ 0-6.5A	156W	7.0x4.3x2.0	240	0.2	0.2	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95						
2079429	PowerLD®	PD-150-24	+24V @ 0-6.5A	156W	7.8x3.9x1.5	120	1.0	0.5	—	UL/CUL/CE	39.95	36.95	33.95						
323855	Mean Well®	RS-150-24	+24V @ 0-6.5A	156W	7.8x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	41.95	38.95	35.95						
2094864	Mean Well®	HRPG-150-24	+24V @ 0-6.5A	156W	6.3x3.8x1.5	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	84.95	79.95	74.95						
689750	Potrans	FS-20024-1M	+24V @ 0-8.3A	200W	7.8x4.3x2.0	150	0.5	0.5	—	UL/CSA/CE/TUV	49.95	44.95	39.95						
194782	Mean Well®	SP-200-24	+24V @ 0-8.4A	201.6W	7.0x3.9x2.0	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95						
137657	Mean Well®	S-240-24	+24V @ 0-10A	240W	7.5x3.7x2.6	180	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	66.95						
2101518	Mean Well®	SP-240-24	+24V @ 0-10A	240W	7.5x3.7x2.0	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	55.95						
196657	Mean Well®	S-320-24	+24V @ 0-12.5A	300W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	69.95	64.95	59.95						
244752	Mean Well®	SP-320-24	+24V @ 0-13.0A at 230VAC; 0-10.4A @ 115VAC	312W	8.5x4.5x2.0	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95						
2102220	Mean Well®	HRP-300-24	+24V @ 0-14A	336W	7.7x4.1x1.6	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	114.95	104.95	94.95						
2094881	Mean Well®	HRPG-300-24	+24V @ 0-14A	336W	7.8x4.1x1.6	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	119.95	114.95	109.95						
<b>2101606</b>	Mean Well®	SE-450-24	+24V @ 0-18.8A	451.2W	8.9x4.9x2.0	200	0.5	0.2	—	UL/CUL	99.95	92.95	86.95						
301322	Mean Well®	SP-480-24	+24V @ 0-20.0A at 230VAC; 0-18A @ 115VAC	480W	10.9x5.0x1.7	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	154.95	144.95	134.95						
147054	Mean Well®	SP-500-24	+24V @ 0-20.0A at 230VAC; 0-17A @ 115VAC	480W	6.7x4.7x3.7	240	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95						
190722	Mean Well®	PSP-500-24	+24V @ 0-20.8A at 230VAC; 0-16.6A @ 115VAC	499.2W	10.9x5.1x7.5	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	219.95	209.95	199.95						
295902	Mean Well	SE-600-24	+24V @ 0-25A	600W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	114.95	106.95	99.95						
374231	Mean Well®	PSP-600-24	+24V @ 0-25A	600W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	144.95	134.95	124.95						
220265	Mean Well	SCN-600-24	+24V @ 0-25A	600W	11.5x5.2x2.7	240	1.0	0.5	4	UL/CUL/CB	224.95	209.95	194.95						
374264	Mean Well	SCP-600-24	+24V @ 0-25A	600W	11.4x4.7x2.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	299.95	279.95	259.95						
320048	Mean Well®	SP-750-24	+24V @ 0-31.3A	750W	10.9x5.0x2.5	120	0.5	0.2	3	UL/CUL/TUV/CE/CB	219.95	199.95	184.95						
374310	Mean Well	SCP-800-24	+24V @ 0-33A	792W	11.4x4.7x2.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB	269.95	249.95	229.95						
217358	Mean Well®	PSP-1000-24	+24V @ 0-37.6A at 230VAC; 0-32A @ 115VAC	902.4W	10.9x5.1x5.0	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	359.95	329.95	299.95						
1585717	Mean Well®	RSP-1000-24	+24V @ 0-40A	960W	11.6x5.0x1.6	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	319.95	299.95	279.95						
373923	Mean Well	PSP-1500-24	+24V @ 0-56.4A	1353.6W	10.9x5.1x7.5	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	499.95	474.95	449.95						
694938	Mean Well®	RSP-1500-24	+24V @ 0-63A	1512W	10.9x5.0x3.3	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	424.95	389.95	359.95						
693409	Mean Well®	SP-75-27	+27V @ 0-2.8A	75.6W	7.0x3.9x1.3	100	0.5	0.5	3	UL/CUL/TUV/CE/CB	44.95	42.49	39.95						
202033	Mean Well®	S-150-27	+27V @ 0-5.6A	151.2W	7.0x4.3x2.0	240	0.2	0.2	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95						
<b>693513</b>	Mean Well®	SP-150-27	+27V @ 0-5.6A	151.2W	7.8x3.9x2.0	150	0.5	0.5	—	UL/CUL/TUV/CE/CB/PFC	56.95	52.95	49.95						
693548	Mean Well®	SP-200-27	+27V @ 0-7.5A	202.5W	7.0x3.9x2.0	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95						
693581	Mean Well®	S-320-27	+27V @ 0-11.0A	297W	8.5x4.5x2.0	200	0.5	0.5	2	UL/CUL	69.95	64.95	59.95						
693628	Mean Well®	SP-320-27	+27V @ 0-11.7A	315.9W	8.5x4.5x2.0	200	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95						
190706	Mean Well®	SP-500-27	+27V @ 0-18A at 230VAC; 0-15.3A @ 115VAC	486W	6.7x4.7x3.7	200	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95						
190731	Mean Well®	PSP-500-27	+27V @ 0-18.5A at 230VAC; 0-14.8A @ 115VAC	499.5W	10.9x5.1x7.5	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	219.95	209.95	199.95						
295911	Mean Well	SE-600-27	+27V @ 0-22.2A	599.4W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	114.95	106.95	99.95						
374257	Mean Well®	PSP-600-27	+27V @ 0-22.2A	600W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95						
374038	Mean Well®	SP-750-27	+27V @ 0-27.8A	750W	10.9x5.0x2.5	120	0.5	0.2	3	UL/CUL/TUV/CE/CB	219.95	199.95	184.95						
231652	Mean Well®	PSP-1000-27	+27V @ 0-33.6A at 230VAC; 0-28.6A at 115VAC	907.2W	10.9x5.1x5.0	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	449.95	419.95	394.95						
1585709	Mean Well®	RSP-1000-27	+27V @ 0-37.0A	999W	11.6x5.0x1.6	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	319.95	299.95	279.95						
231714	Mean Well	SPS-1500-27	+27V @ 0-50.4A	1360.8W	10.9x5.1x7.5	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	499.95	474.95	449.95						
694946	Mean Well®	RSP-1500-27	+27V @ 0-56.0A	1512W	10.9x5.0x3.3	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	424.95	389.95	359.95						
392834	Mean Well®	S-240-30	+30V @ 0-8A	240W	7.5x3.7x2.6	180	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	66.95						
2102473	Mean Well®	SP-240-30	+30V @ 0-8A	240W	7.5x3.7x2.0	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	55.95						
<b>2101753</b>	Mean Well®	HRPG-600-36	+36V @ 0-17.5A	630W	8.6x4.1x2.5	200	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	189.95	174.95	164.95						
<b>693249</b>	Mean Well®	RS-50-48	+48V @ 0-1.1A	52.8W	3.9x3.8x1.4	200	0.5	0.5	1	UL/CUL/TUV/CE/CB	23.95	21.95	19.95						
216805	Mean Well	SP-75-48	+48V @ 0-1.6A	76.8W	7.0x3.9x1.3	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	44.95	42.49	39.95						
216793	Mean Well®	S-100F-48	+48V @ 0-2.2A	105.6W	7.8x3.9x1.5	150	0.5	0.5	2	UL/TUV/CE/CB	28.95	26.95	24.95						
167346	Mean Well®	S-150-48	+48V @ 0-3.2A	153.6W	7.0x4.3x2.0	240	0.2	0.2	2	UL/CUL/TUV/CE/CB	34.95	32.95	31.49						
201930	Mean Well®	SP-150-48	+48V @ 0-3.2A	153.6W	7.0x3.9x2.0	250	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	52.95	49.95						
323863	Mean Well®	RS-150-48	+48V @ 0-3.3A	158.4W	7.8x3.9x1.5	200	0.5	0.5	1	UL/CUL/TUV/CE/CB	41.95	38.95	35.95						
202068	Mean Well®	SP-200-48	+48V @ 0-4.2A	201.6W	7.0x3.9x2.0	250	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95						
167338	Mean Well®	S-240-48	+48V @ 0-5.0A	240W	7.5x3.7x2.6	240	1.0	1.0	2	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	66.95						
2102481	Mean Well®	SP-240-48	+48V @ 0-5A	240W	7.5x3.7x2.0	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	55.95						
689776	Metapo	1M321C48-0M	+48V @ 0-6.5A	312W	7.5x4.5x2.0	240	0.5	0.5	—	UL/CUL	66.95	62.95	59.95						
207191	Mean Well	S-320-48	+48V @ 0-6.5A	312W	8.5x4.5x2.0	240	0.5	0.5	2	UL/CUL	69.95	64.95	59.95						
244770	Mean Well®	SP-320-48	+48V @ 0-6.7A at 230VAC; 0-5.4A @ 115VAC	321.6W	8.5x4.5x2.0	240	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95						

\* Primary Output    Blue Part No. = Limited Quantity Available

More Enclosed Switching Power Supplies on pages 137-139 & 141-142

RoHS compliant product    This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#).



## **Enclosed Switching AC-to-DC Power Supplies (Continued)**



1-65

★ Web Code: EPS

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 138†	Pricing			
			Voltage @ Current (min-max)	Power						1	5	25	
<b>Single Output (Continued)</b>													
301402	Mean Well®	SP-480-48	+48V @ 0-10.0A at 230VAC; 0-9A @ 115VAC	480W	10.9x5.0x1.7	240	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	\$154.95	\$144.95	\$134.95
161796	Mean Well®	SP-500-48	+48V @ 0-10.0A at 230VAC; 0-8.5A @ 115VAC	480W	6.7x4.7x3.7	300	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95
190749	Mean Well®	PSP-500-48	+48V @ 0-10.5A at 230VAC; 0-8.4A @ 115VAC	504W	10.9x5.1x7.5	200	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	219.95	209.95	199.95
374062	Mean Well®	SCN-600-48	+48V @ 0-12.0A	576W	11.5x5.2x2.7	480	0.5	0.5	4	UL/CUL/CB	224.95	209.95	194.95
295929	Mean Well	SE-600-48	+48V @ 0-12.5A	600W	9.7x5.0x2.5	200	0.5	0.5	2	UL/CUL	114.95	106.95	99.95
374249	Mean Well®	PSP-600-48	+48V @ 0-12.5A	600W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95
217350	Mean Well®	PSP-1000-48	+48V @ 0-19.0A at 230VAC; 0-16.2A @ 115VAC	912W	10.9x5.1x5.0	200	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	449.95	419.95	394.95
1585725	Mean Well®	RSP-1000-48	+48V @ 0-21.0A	1008W	11.6x5.0x1.6	150	0.5	0.5	5	UL/CUL/TUV/CE/CB	319.95	299.95	279.95
231722	Mean Well	PSP-1500-48	+48V @ 0-28.5A	1368W	10.9x5.1x7.5	200	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	529.95	489.95	449.95
694954	Mean Well®	RSP-1500-48	+48V @ 0-32.0A	1536W	10.9x5.0x3.3	200	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	424.95	389.95	359.95
<b>Double Output</b>													
323362	Mean Well®	RD-35A	+5V @ 0.3-4A; +12V @ 0.2-1A	32W	3.9x3.2x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	\$28.95	\$26.95	\$24.95
323380	Mean Well®	RD-35B	+5V @ 0.3-4A; +24V @ 0.2-1.3A	51.2W	3.9x3.2x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	28.95	26.95	24.95
323425	Mean Well®	RD-50A	+5V @ 0.3-6A; +12V @ 0.3-3A	54W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	32.95	29.95	27.49
323433	Mean Well®	RD-50B	+5V @ 0.3-6A; +24V @ 0.2-2A	53.6W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	32.95	29.95	27.49
123458	Mean Well®	D-60A	+5V @ 0.3-4A; +12V @ 0.2-3A	56W	6.3x3.8x1.5	75	0.5	0.5	2	UL/CUL/TUV/CE/CB	29.95	27.95	25.95
123466	Mean Well®	D-60B	+5V @ 0.3-3A; +24V @ 0.2-1.8A	58W	6.3x3.8x1.5	75	0.5	0.5	2	UL/CUL/TUV/CE/CB	29.95	27.95	25.95
323505	Mean Well®	RD-65A	+5V @ 0.3-8A; +12V @ 0.2-4A	66W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	35.95	32.95	29.95
323513	Mean Well®	RD-65B	+5V @ 0.3-8A; +24V @ 0.2-3A	68W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	35.95	32.95	29.95
323628	Mean Well®	RD-85A	+5V @ 2.0-10A; +12V @ 0.3-5A	88W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	51.95	48.95	45.95
132410	Mean Well®	D-120A	+5V @ 2.0-12A; +12V @ 0.5-5A	120W	7.0x3.9x2.0	60	0.5	0.5	2	UL/CUL/TUV/CE/CB	49.95	46.95	43.95
132397	Mean Well®	D-120B	+5V @ 2.0-6A; +24V @ 0.4-4A	126W	7.0x3.9x2.0	60	0.5	0.5	2	UL/CUL/TUV/CE/CB	49.95	46.95	43.95
323741	Mean Well®	RD-125A	+5V @ 2.0-15A; +12V @ 0.5-10A	130.9W	7.8x3.9x1.5	80	3.0	1.0	1	UL/CUL/TUV/CE/CB	53.95	49.95	46.95
323759	Mean Well®	RD-125B	+5V @ 2.0-10A; +24V @ 0.4-5A	133.4W	7.8x3.9x1.5	80	3.0	1.0	1	UL/CUL/TUV/CE/CB	53.95	49.95	46.95
2106124	Mean Well®	RD-125-1224	+12V @ 1.0-3.7A; +24V @ 0.4-3.7A	133.2W	7.8x3.9x1.5	120	1.0	0.5	1	UL/CUL/TUV/CE/CB	53.95	49.95	46.95
<b>Triple Output</b>													
201989	Mean Well®	T-40A	+5V @ 0.6-3A; +12V @ 0.2-2A; -5V @ 0.1-0.5A	41.5W	5.1x3.9x1.5	100	0.5	0.5	2	CSA/CE	\$29.95	\$27.95	\$25.95
201997	Mean Well®	T-40B	+5V @ 0.6-3A; +12V @ 0.2-2A; -12V @ 0.1-0.5A	45W	5.1x3.9x1.5	100	0.5	0.5	2	CSA/CE	29.95	27.95	25.95
202009	Mean Well®	T-40C	+5V @ 0.6-3A; +15V @ 0.2-1.5A; -15V @ 0.1-0.5A	45W	5.1x3.9x1.5	100	0.5	0.5	2	CSA/CE	29.95	27.95	25.95
323442	Mean Well®	RT-50A	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -5V @ 0.5-5A	46.5W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
323460	Mean Well®	RT-50B	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0.1-1A	50W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
323468	Mean Well®	RT-50C	+5V @ 0.5A; +15V @ 0.2-2A; -15V @ 0.1-1A	50W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
323476	Mean Well®	RT-50D	+5V @ 0.5-5A; +12V @ 0.1-1A; +24V @ 0.2-1.5A	51W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
123482	Mean Well®	T-60B	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0.0-0.5A	61W	6.3x3.8x1.5	100	1.0	0.5	2	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
123491	Mean Well®	T-60C	+5V @ 0.5-5A; +15V @ 0.2-2A; -15V @ 0.0-0.5A	62.5W	6.3x3.8x1.5	100	1.0	0.5	2	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
323540	Mean Well®	RT-65B	+5V @ 0.5-8A; +12V @ 0.2-3.5A; -12V @ 0.1A	64.6W	5.1x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	38.95	35.95	33.95
323548	Mean Well®	RT-65C	+5V @ 0.5-8A; +15V @ 0.2-3A; -15V @ 0-1A	65.5W	5.1x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	38.95	35.95	33.95
323555	Mean Well	RT-65D	+5V @ 0.5-8A; +12V @ 0.1-1A; +24V @ 0.2-2A	68W	5.1x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	38.95	35.95	33.95
323644	Mean Well®	RT-85A	+5V @ 2-10A; +12V @ 0.3-4A; -5V @ 0-1A	84.5W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	39.95	36.95	34.95
323661	Mean Well®	RT-85C	+5V @ 2-10A; +15V @ 0.3-4A; -15V @ 0-1A	87.5W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	39.95	36.95	34.95
323678	Mean Well+	RT-85D	+5V @ 2-10A; +12V @ 0.1-1A; +24V @ 0.3-2.5A	90W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	29.95	26.95	23.95
213794	Mean Well	TP-100A	+5V @ 3-10A; +12V @ 0.4-4A; -5V @ 0-0.6A	100W	7.8x3.9x2.0	100	3.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	69.95	62.95	56.95
213778	Mean Well	TP-100C	+5V @ 3-10A; +15V @ 0.4-3A; -15V @ 0-0.6A	104W	7.8x3.9x2.0	100	3.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	69.95	62.95	56.95
301509	Mean Well®	T-120B	+5V @ 2-12A; +12V @ 0.5-5A; -12V @ 0.2-1A	121W	7.0x3.9x2.0	80	0.5	0.5	2	UL/CUL/TUV/CE/CB	52.95	48.95	44.95
323767	Mean Well®	RT-125A	+5V @ 2-15A; +12V @ 0.5-6A; -5V @ 0-1.1A	131W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	44.95	39.95	35.95
323775	Mean Well®	RT-125B	+5V @ 2-15A; +12V @ 0.5-6A; -12V @ 0.1-1A	132W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	54.95	49.95	46.95
323783	Mean Well®	RT-125C	+5V @ 2-15A; +15V @ 0.5-6A; -15V @ 0-1.1A	132.5W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	54.95	49.95	46.95
323792	Mean Well®	RT-125D	+5V @ 2-15A; +12V @ 0.1-2A; +24V @ 0.4-4A	136W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	54.95	49.95	46.95
213832	Mean Well®	TP-150C	+5V @ 2-15A; +15V @ 0.4-4.5A; -15V @ 0-0.6A	151.5W	7.8x3.9x2.0	100	3.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	54.95
<b>Quad Output</b>													
323484	Mean Well®	RO-50B	+5V @ 0.5-6A; +12V @ 0.2-1.5A; -5V @ 0-1A; -12V @ 0-1A	45.5W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	\$35.95	\$33.95	\$31.95
323492	Mean Well®	RO-50D	+5V @ 0.5-6A; +12V @ 0.2-1.5A; +24V @ 0-1.1A; -12V @ 0-1A	53.4W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	35.95	33.95	31.95
147046	Mean Well®	O-60B	+5V @ 0.5-5.5A; +12V @ 0.1-2A; -5V @ 0-0.5A; -12V @ 0-0.5A	60W	6.3x3.8x1.5	100	0.5	0.5	2	UL/CUL/CE/CB	39.95	35.95	32.95
323564	Mean Well®	RO-65B	+5V @ 0.5-8A; +12V @ 0.2-3A; -5V @ 0-1A; -12V @ 0-1A	62.5W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	36.95	34.95
323572	Mean Well®	RO-65D	+5V @ 0.5-8A; +12V @ 0.2-3A; +24V @ 0-1.1A; -12V @ 0-1A	68W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	36.95	34.95
323695	Mean Well®	RO-85D	+5V @ 2-10A; +12V @ 0.3-4A; +24V @ 0-1.1A; -12V @ 0-1A	84W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	54.95	51.95	48.95
132389	Mean Well®	O-120B	+5V @ 2-11A; +12V @ 0.5-4A; -5V @ 0-0.2A; -12V @ 0-0.2A	120W	7.0x3.9x2.0	80	0.5	0.5	2	UL/CUL/TUV/CE/CB	54.95	51.95	48.95

## \* Primary Output

*More Enclosed Switching Power Supplies on pages 137-140 & 142*

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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## Enclosed Switching AC-to-DC Power Supplies (Continued)



\* Web Code: EPS

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 138†	Certification	Pricing		
			Voltage @ Current (min-max)	Power							1	5	25
Quad Output (Continued)													
323803	Mean Well	RQ-125B	+5V @ 2-12A; +12V @ 0.5-4.5A; -5V @ 0.1-1A; -12V @ 0.1-1A	120W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	\$58.95	\$54.95	\$51.95
132371	Mean Well®	O-120D	+5V @ 2-8A; +12V @ 0.2-2A; +24V @ 0.2-2A; -12V @ 0.2-1A	124W	7.0x3.9x2.0	80	0.5	0.5	2	UL/CUL/TUV/CE/CB	54.95	51.95	48.95
323812	Mean Well®	RQ-125D	+5V @ 2-12A; +12V @ 0.5-4A; +24V @ 0.1-2.5A; -12V @ 0.1A	124W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	58.95	54.95	51.95
213648	Mean Well®	QP-150F	+5V @ 3-10A; +15V @ 0-3A; +24V @ 0.4-2A; -15V @ 0-0.6A	152W	7.8x3.9x1.5	120	2.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	109.95	99.95	89.95
213752	Mean Well®	QP-200D	+5V @ 3-15A; +12V @ 0-4A; +24V @ 0.4-3A; -12V @ 0-0.7A	204.9W	7.8x3.9x2.0	100	2.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	124.95	114.95	104.95

\* Primary Output

## Mounting Brackets & Accessories for Mean Well Enclosed Switching AC-to-DC Power Supplies

All brackets use metric screws: 2-F3 x 6, 2-F4 x 6, 2-T3 x 6, 2-T4 x 6 and 8-T4 x 6 (not included)

Part No.	Product No.	For Models	1	10
222122	DRL-01	S-25/40, RS-25/35	\$1.25	\$1.09
222131	DRL-02	S-60/100F/150, D-60/120, SD-100/150, SP-75/100/150/200	1.75	1.49
222148	DRL-03	S-240/320, SP-320	2.25	1.95
222157	DRP-01	All Models	2.49	2.25
222165	DRP-02	S-25, SP-75/100/150/200	1.95	1.75
222173	DRP-03	All Models	1.95	1.75
222182	MHS012	S-320/350, SP-100/150/200/320	.75	.65
1952636	MHS013	PSP-500, SP-750, SE-600	.85	.75
222199	MHS025	SP-500, PSP-600	.95	.85
248736	2094.0	DR, DRH, DRP, DRT, MDR	6.95	6.29

\* Web Code: MBM



**Mating Connector**  
103588 \$1.20/10  
Spade Solderless Terminal

**Crimp Tool**  
72996 \$22.49  
Solderless Terminal Crimp Tool  
Pricing & specs on page 91

## LED Enclosed Power Supplies with Power Factor Correction

### For Indoor and Outdoor Applications

- Suitable for LED lighting & moving sign application
  - Short-circuit/overload/overvoltage/overtemperature protection
- PLN Series**
- Plastic case
  - Constant voltage and current
  - Working temperature: -30°C to 50°C
- CLG Series**
- Metal case
  - Adjustable voltage and current
  - Working temperature: -30°C to 70°C
- ELN Series**
- Plastic case
  - Built-in constant current limiting circuit
- HG Series**
- Metal case
  - Adjustable voltage and constant current

- Universal AC input/full range
  - Inrush current: 40A/230VAC
  - Two-year warranty
- PLN Series**
- Constant voltage and current
  - Inrush current: 40A/230VAC
  - Three-year warranty
- CLG Series**
- Adjustable voltage and current
  - Inrush current: 40A/230VAC
- ELN Series**
- Built-in constant current limiting circuit
  - Inrush current: 60A/230VAC
- HG Series**
- Adjustable voltage and constant current
  - Inrush current: 75A/230VAC

- Cooling by free air convection
- UL1310 class 2 power unit



\* Web Code: LPP



**PLN Series**

**CLG Series**  
• Two-year warranty  
• Three-year warranty

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 138†	Certification	Pricing		
			Voltage @ Current (min-max)	Power (W)							1	5	25
2120233	Advance	LED120A0012V10F #	+12V @ 1A	12	5.2 x 1.3 x 1.0	2000	5.0	1.0	UL/CUL/CSA	\$19.95	\$17.95	\$15.95	
1954404	Mean Well®	PLN-30-12	+12V @ 0-2.5A	30	5.7 x 1.9 x 1.2	2000	10.0	3.0	UL/CUL/TUV/CE	33.95	31.95	29.95	
1918913	Mean Well®	PLN-60-12	+12V @ 0-5A	60	7.1 x 2.4 x 1.4	2000	5.0	3.0	UL/CUL/TUV/CE/PFC	49.95	46.95	44.95	
1918833	Mean Well®	PLN-100-12	+12V @ 0-5A	60	7.9 x 2.8 x 1.4	150	2.0	1.0	UL/CUL/TUV/CE/PFC	59.95	56.95	54.95	
1954877	Mean Well®	CLG-150-12A	+12V @ 0-11A	132	8.7 x 2.7 x 1.5	150	1.0	0.5	UL/TUV/CE	84.95	79.95	74.95	
1918964	Mean Well®	PLN-60-15	+15V @ 0-4A	60	7.1 x 2.4 x 1.4	2400	10.0	4.0	UL/CUL/TUV/CE	49.95	46.95	44.95	
1919001	Mean Well®	CLG-60-15 †	+15V @ 0-4A	60	6.8 x 2.4 x 1.5	2400	10.0	4.0	UL/CUL/TUV/CE	59.95	56.95	54.95	
1918841	Mean Well®	PLN-100-15	+15V @ 0-5A	75	7.9 x 2.8 x 1.4	150	2.0	1.0	UL/CUL/TUV/CE/PFC	59.95	56.95	54.94	
1585856	Mean Well®	CLG-100-15 †	+15V @ 0-5A	75	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	77.95	72.95	67.95	
1585864	Mean Well®	CLG-100-20 †	+20V @ 0-4.8A	96	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	77.95	72.95	67.95	
1954412	Mean Well®	PLN-30-24	+24V @ 0-1.25A	30	5.7 x 1.9 x 1.2	2600	10.0	3.0	UL/CUL/TUV/CE	33.95	31.95	29.95	
1918868	Mean Well®	PLN-100-24	+24V @ 0-4A	96	7.9 x 2.8 x 1.4	150	2.0	1.0	UL/CUL/TUV/CE/PFC	59.95	56.95	54.95	
1585872	Mean Well®	CLG-100-24 †	+24V @ 0-4A	96	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	77.95	72.95	67.95	
1954885	Mean Well®	CLG-150-24A	+24V @ 0-6.3A	150	8.7 x 2.7 x 1.5	150	1.0	0.5	UL/TUV/CE	84.95	79.95	74.95	
2102140	Mean Well®	HLG-240-24A	+24V @ 10A	240	9.6 x 2.7 x 1.5	150	0.5	0.5	UL/CUL/TUV/CE/PFC	118.95	106.95	99.95	
2100574	Mean Well®	PLN-60-27	+27V @ 0-2.3A	62.1	7.1 x 2.4 x 1.4	2700	5.0	3.0	UL/CE	49.95	46.95	44.95	
1585733	Mean Well®	CLG-100-27 †	+27V @ 0-3.55A	96	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	77.95	72.95	67.95	
2105279	Mean Well®	ELN-60-48	+48V @ 0-1.3A	62.5	7.1 x 2.4 x 1.4	250	2.0	1.0	UL/CUL/TUV/CE/PFC	33.95	31.95	29.95	
1585768	Mean Well®	CLG-100-48 †	+48V @ 0-2A	96	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	77.95	72.95	67.95	

\* Primary Output   #IP66 Rated   †IP67 Rated

RoHS compliant product   This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)



## DIN-Rail Switching Power Supplies

- Short-circuit, overload, overvoltage protection
- Low cost, high reliability
- 100% full-load burn-in test

**UL-508**

- For DIN-Rail terminal blocks see pg 90
- Universal AC input range
- Soft-start circuit, limiting AC surge current

\* Web Code: RBY



1943300  
(Fig. 2)

192699  
(Fig. 3)

373182 (Fig. 1)  
Rail not included

373182 (Fig. 1)



1943393  
(Fig. 4)  
Rail not included



1943449  
(Fig. 5)  
Rail not included



212291 (Fig. 6)  
212274 (Fig. 7)



2081086  
(Fig. 8)  
Rail not included



2101391  
(Fig. 9)  
Rail not included



221892 (Fig. 10)  
252663 (Fig. 11)



2094944  
(Fig. 12)  
Rail not included



192699  
(Fig. 3)

Part No.	Mfr. Part No.	Fig.	Output Volts @ Curr.	Pwr (W)	Input Voltage (VAC @ Hz/VDC)	Input Current @ Max Load	Size (L" x W" x H")	Wt. (lbs.)	1	5	25
2101243	DR-15-5R	1	5VDC @ 2.4A	12	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	1.0 x 3.7 x 2.2	0.2	\$21.49	\$19.95	\$18.95
373174	DR-30-5R	1	5VDC @ 3A	15	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	24.95	22.95	21.49
1943300	MDR-20-5R	2	5VDC @ 3A	15	85-264 @ 47-63/120-370	0.55A (115V)/0.35A (230V)	3.9 x 0.9 x 3.5	0.4	25.95	24.49	22.95
212303	DR-4505R	3	5VDC @ 5A	25	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.9	27.95	25.95	23.95
1943393	MDR-40-5R	4	5VDC @ 6A	30	85-264 @ 47-63/120-370	1.1A (115V)/0.7A (230V)	3.9 x 1.6 x 3.5	0.6	32.95	31.49	29.95
373212	DR-60-5R	1	5VDC @ 6.5A	32.5	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	34.95	32.49	29.95
1943449	MDR-60-5R	5	5VDC @ 10A	50	85-264 @ 47-63/120-370	1.8A (115V)/1.0A (230V)	3.9 x 1.6 x 3.5	0.7	36.95	34.95	32.95
1952978	MDR-10-12R	2	12VDC @ 0.84A	10	85-264 @ 47-63/120-370	0.33A(155V)/0.21A(230V)	3.9 x 0.9 x 3.5	0.4	21.95	20.49	19.49
2094952	DR-15-12R	1	12VDC @ 1.25A	15	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	3.7 x 1.0 x 2.2	0.2	21.49	19.95	18.95
1943334	MDR-20-12R	2	12VDC @ 1.67A	20	85-264 @ 47-63/120-370	0.55A (115V)/0.35A (230V)	3.9 x 0.9 x 3.5	0.4	25.95	24.49	22.95
373182	DR-30-12R	1	12VDC @ 2A	24	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	24.95	22.95	21.49
1943406	MDR-40-12R	4	12VDC @ 3.33A	40	85-264 @ 47-63/120-370	1.1A (115V)/0.7A (230V)	3.9 x 1.6 x 3.5	0.6	32.95	31.49	29.95
192699	DR-4512R	3	12VDC @ 3.5A	42	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.7	27.95	25.95	23.95
373230	DR-60-12R	1	12VDC @ 4.5A	54	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	34.95	32.49	29.95
1943457	MDR-60-12R	5	12VDC @ 5A	60	85-264 @ 47-63/120-370	1.8A (115V)/1.0A (230V)	3.9 x 1.6 x 3.5	0.7	36.95	34.95	32.95
212291	DR-75-12R	6	12VDC @ 6.3A	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	44.95	42.49	39.95
1943511	DR-100-12R	1	12VDC @ 7.5A	90	85-264 @ 47-63/124-370	3.0A(115V)/1.6A(230V)	3.9 x 3.7 x 2.2	0.8	49.95	46.95	44.95
1943481	MDR-100-12R	5	12VDC @ 7.5A	90	85-264 @ 47-63/120-370	1.3A(155V)/0.8A(230V)	3.9 x 2.2 x 3.5	0.9	64.95	61.95	58.95
212274	DR-120-12R	7	12VDC @ 10A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	54.95	51.95	48.95
2099366	SDR-120-12R	8	12VDC @ 10A	120	88-264/124-370* @ 47-63	1.4A(115V)/10.7A(230V)	4.5 x 1.6 x 4.9	1.5	74.95	69.95	64.95
2101391	DR-15-15R	9	15VDC @ 1A	15	85-264 @ 47-63	0.88A(115V)/0.48A(230V)	3.7 x 1.0 x 2.2	0.2	21.49	19.95	18.95
1943342	MDR-20-15R	2	15VDC @ 1.24A	20	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	39.95	35.95	31.95
373191	DR-30-15R	1	15VDC @ 2A	30	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	24.95	22.95	21.49
373238	DR-60-15R	1	15VDC @ 4A	60	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	34.95	32.49	29.95
1952986	MDR-10-24R	2	24VDC @ 0.42A	10	85-264 @ 47-63/120-370	0.33A(155V)/0.21A(230V)	3.9 x 0.9 x 3.5	0.4	21.95	20.49	19.49
1943385	MDR-20-24R	2	24VDC @ 1A	24	85-264 @ 47-63/120-370	0.55A (115V)/0.35A (230V)	3.9 x 0.9 x 3.5	0.4	25.95	24.49	22.95
373203	DR-30-24R	1	24VDC @ 1.5A	36	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	24.95	22.95	21.49
1943422	MDR-40-24R	4	24VDC @ 1.7A	40.8	85-264 @ 47-63/120-370	1.1A (115V)/0.7A (230V)	3.9 x 1.6 x 3.5	0.6	32.95	31.49	29.95
192681	DR-4524R	3	24VDC @ 2A	48	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.7	27.95	25.95	23.95
373246	DR-60-24R	1	24VDC @ 2.5A	60	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	34.95	32.49	29.95
1943465	MDR-60-24R	5	24VDC @ 2.5A	60	85-264 @ 47-63/120-370	1.8A (115V)/1.0A (230V)	3.9 x 1.6 x 3.5	0.7	36.95	34.95	32.95
212282	DR-75-24R	6	24VDC @ 3.2A	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	44.95	42.49	39.95
1943490	MDR-100-24R	5	24VDC @ 4A	90	85-264 @ 47-63/120-370	1.3A(155V)/0.8A(230V)	3.9 x 2.2 x 3.5	0.9	64.95	61.95	58.95
1943537	DR-100-24R	1	24VDC @ 4.2A	100	88-264 @ 47-63/124-370	3.0A(115V)/1.6A(230V)	2.2 x 3.9 x 3.7	0.8	49.95	46.95	44.95
212266	DR-120-24R	7	24VDC @ 5A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	54.95	51.95	48.95
1953727	DRH-120-24R	7	24VDC @ 5A	120	340-550 @ 47-63/480-780	0.65A(400V)/0.6A(500V)	3.9 x 2.6 x 4.9	1.7	74.95	69.95	64.95
2099374	SDR-120-24R	8	24VDC @ 5A	120	88-264/124-370* @ 47-63	1.4A(115V)/10.7A(230V)	4.5 x 1.6 x 4.9	1.5	74.95	69.95	64.95
221892	DRP-240-24R†	10	24VDC @ 10A	240	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	89.95	84.95	79.95
373123	DRT-240-24R	10	24VDC @ 10A	240	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	94.95	89.95	84.95
2081086	SDR-240-24R	8	24VDC @ 10A	240	88-264 @ 47-63/124-370	2.6A(115V)/1.3A(230V)	2.5 x 4.9 x 4.5	2.5	134.95	124.95	114.95
252663	DRP-480-24R†	11	24VDC @ 20A	480	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	139.95	129.95	119.95
295938	DRP-480S-24R†	11	24VDC @ 20A	480	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	144.95	134.95	124.95
2094944	SDR-480-24R	12	24VDC @ 20A	480	88-264 @ 47-63/124-370	2.6A(115V)/1.3A(230V)	4.9 x 3.4 x 5.0	4.9	209.95	194.95	184.95
1943431	MDR-40-48R	4	48VDC @ 0.83A	39.8	85-264 @ 47-63/120-370	1.1A (115V)/0.7A (230V)	3.9 x 1.6 x 3.5	0.6	32.95	31.49	29.95
1943473	MDR-60-48R	5	48VDC @ 1.25A	60	85-264 @ 47-63/120-370	1.8A (115V)/1.0A (230V)	3.9 x 1.6 x 3.5	0.7	36.95	34.95	32.95
221904	DR-120-48R	7	48VDC @ 2.5A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	54.95	51.95	48.95
1953735	DRH-120-48R	7	48VDC @ 2.5A	120	340-550 @ 47-63/480-780	0.65A(400V)/0.6A(500V)	3.9 x 2.6 x 4.9	1.7	69.95	64.95	59.95
221883	DRP-240-48R†	10	48VDC @ 5A	240	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	89.95	84.95	79.95
2094936	SDR-240-48R	8	48VDC @ 5A	240	88-264 @ 47-63/120-370	2.6A(115V)/1.3A(350V)	2.5 x 4.9 x 4.5	2.5	134.95	124.95	114.95
252655	DRP-480-48R†	11	48VDC @ 10A	480	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	139.95	129.95	119.95
301306	DRP-480S-48R†	11	48VDC @ 10A	480	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	144.95	134.95	124.95
373106	DRT-480-48R	11	48VDC @ 10A	480	3-phase 340-550 @ 47-63/480-750	1.7A(400V)/1.3A(500V)	8.9 x 3.9 x 4.9	5.5	79.95	74.95	69.95

\* Switch selectable      † With Power Factor Correction



## DIN Mounting Rail



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# Power Supplies & Converters

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## Encapsulated Switching Power Supplies

\* Web Code: ESP

### PM-05/PM-10/PM-15/PM-20 Series:



- Universal AC input (85-264VAC @ 47Hz)
- Short-circuit, overload, overvoltage protection
- Ultra-miniature size
- UL/CUL/TUV/CE/CB
- Cooling by free air convection
- 100% full-load burn-in test
- Three-year warranty

Part No.	Manufacturer	Mfr. P/N	Output		Pwr (W)	Pins	Ripple & Noise (mVp-p)	Load Reg. (±%)	Line Reg. (±%)	Size (L" x W" x H")	Pricing		
			Volt. @ Curr. (min-max)	I							1	10	50
1954527	Mean Well	PM-05-12	+12V @ 0-0.42A	5.04	4	150	1.0	0.5	2.5 x 2.0 x 0.8	\$15.49	\$14.49	\$13.49	
1954551	Mean Well	PM-10-12	+12V @ 0-0.85A	10.2	4	150	1.0	0.5	2.8 x 2.0 x 0.9	17.49	16.49	15.49	
1954586	Mean Well	PM-15-12	+12V @ 0-1.25A	15	4	150	1.0	0.5	3.0 x 2.1 x 0.9	20.95	19.95	18.95	
1954367	Mean Well	PM-20-12	+12V @ 0-1.80A	21.6	6	150	1.0	0.5	3.7 x 2.2 x 0.9	22.95	21.49	19.95	
1954535	Mean Well	PM-05-24	+24V @ 0-0.23A	5.52	4	240	0.5	0.5	2.5 x 2.0 x 0.8	15.49	14.49	13.49	
1954560	Mean Well	PM-10-24	+24V @ 0-0.42A	10.1	4	240	0.5	0.5	2.8 x 2.0 x 0.9	17.49	16.49	15.49	
1954594	Mean Well	PM-15-24	+24V @ 0-0.63A	15.1	4	240	0.5	0.5	3.0 x 2.1 x 0.9	20.95	19.95	18.95	
1954383	Mean Well	PM-20-24	+24V @ 0-0.92A	22.1	6	240	0.5	0.5	3.7 x 2.2 x 0.9	22.95	21.49	19.95	

## 600-Watt Rackmount Power Supply

\* Web Code: MCJ



- AC Input active surge current limiting
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- Short-circuit, overload, overvoltage, overtemperature protection
- Input voltage: 90-132VAC/180-264VAC switch selectable
- Output: 48VDC @ 12.5A • Ripple & noise: 150mVp-p max.

Part No.	Mfr. Part No.	Size (W" x D" x H")	1	5	25
673408	SE-600-48RM	19.5 x 5.0 x 3.5	\$249.95	\$229.95	\$214.95



## Dual Adj. Regulated Power Supply Kit

- Adjustable positive/negative supplies ±5 to ±15VDC, 175mA–750mA per supply
- LED on indicator • 120VAC input • 48-piece kit
- PC board construction • Difficulty level: intermediate

Part No.	Cross Ref. No.	Size (L" x W" x H")	Wt. (lbs.)	1	10
20626	JE215	5.1 x 3.5 x 2.0	2.1	\$24.95	\$22.49

We also carry AT & ATX Computer Power Supplies See page 180



## 15 to 500-Watt Enclosed Converters

Performance  
at Value Prices



- 2:1 wide input range • 100% burn-in test • Working temp.: -10°C to +60°C • Protection: short-circuit, overload and overvoltage

**SD-15 Series** • Built-in EMI filter, low ripple noise • One-year warranty

**SD-25/SD-50/SD-100/SD-150 Series** • Isolation voltage: 1500VDC

• Built-in EMI filter, low ripple noise • One-year warranty

**SD-200/350 Series** • Isolation volt.: 1500VDC

• Cooling by free air convection • Fixed switching freq @ 83kHz

**SD-500 Series** • Isolation voltage: 2000VAC

• DC input active surge current limiting

• Wide 4:1 ~ 2:1 SC input range

• Forced air cooling by built-in DC fan w/ fan speed control function

• Three-year warranty

\* Web Code: UBC

Part No.	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mVp-p)	Pricing			
			Voltage @ Current	Power (W)						1	5	25	100
1953778	SD-15A-5R	9.2-18V	+5V @ 3.0A	15	3.1 x 2.0 x 1.1	5	0.5	0.5	100	\$19.95	\$18.49	\$16.95	\$15.95
175662	SD-25A-5R	9-18V	+5V @ 5.0A	25	3.9 x 3.8 x 1.4	5	0.5	0.5	100	24.95	22.95	21.49	19.95
212549	SD-50A-5R	9-18V	+5V @ 10A	50	6.3 x 3.8 x 1.5	5	0.5	0.5	100	32.49	29.95	27.95	26.49
1953882	SD-200B-5R	19-36V	+5V @ 34A	170	8.5 x 4.5 x 2.0	9	0.5	1.0	100	99.95	94.95	89.95	84.95
1953891	SD-350B-5R	19-36V	+5V @ 57A	285	8.5 x 4.5 x 2.0	9	0.5	1.0	100	109.95	104.95	99.95	94.95
1953823	SD-15B-12R	18-36V	+12V @ 1.25A	15	3.1 x 2.0 x 1.1	5	0.3	0.3	120	19.95	18.49	16.95	15.95
1953840	SD-15C-12R	36-72V	+12V @ 1.25A	15	3.1 x 2.0 x 1.1	5	0.3	0.3	120	19.95	18.49	16.95	15.95
175805	SD-25A-12R	9-18V	+12V @ 2.1A	25.2	3.9 x 3.8 x 1.4	5	0.3	0.3	120	25.95	23.95	21.95	20.49
1537483	SD-50A-12R	9.2-18V	+12V @ 4.2A	50.1	6.3 x 3.8 x 1.5	5	0.3	0.3	120	32.49	29.95	27.95	26.49
212531	SD-50B-12R	19-36V	+12V @ 4.2A	50.4	6.3 x 3.8 x 1.5	5	0.3	0.3	120	32.49	29.95	27.95	26.49
212506	SD-50C-12R	36-72V	+12V @ 4.2A	50.4	6.3 x 3.8 x 1.5	5	0.3	0.3	120	32.49	29.95	27.95	26.49
212469	SD-100C-12R	36-72V	+12V @ 8.5A	102	7.8 x 3.9 x 1.5	7	0.3	0.3	120	41.95	38.95	36.95	34.95
217270	SD-150B-12R	19-36V	+12V @ 12.5A	150	7.8 x 4.3 x 2.0	7	0.5	0.5	120	54.95	51.95	48.95	46.95
1953903	SD-200B-12R	19-36V	+12V @ 16.7A	200.4	8.5 x 4.5 x 2.0	9	0.5	1.0	100	99.95	94.95	89.95	84.95
1953920	SD-200C-12R	36-72V	+12V @ 16.7A	200.4	8.5 x 4.5 x 2.0	9	0.5	1.0	120	109.95	99.95	94.95	89.95
1953760	SD-200D-12R	72-144V	+12V @ 16.7A	200.4	8.5 x 4.5 x 2.0	9	0.5	1.0	120	109.95	99.95	94.95	89.95
1953962	SD-350B-12R	19-36V	+12V @ 27.5A	330	8.5 x 4.5 x 2.0	9	0.3	1.0	120	109.95	104.95	99.95	94.95
1953997	SD-350C-12R	36-72V	+12V @ 27.5A	330	8.5 x 4.5 x 2.0	9	0.3	1.0	120	109.95	104.95	99.95	94.95
1954033	SD-500L-12R	19-72V	+12V @ 40A	480	8.5 x 4.5 x 2.0	7	0.5	0.5	150	174.95	164.95	154.95	144.95
1954050	SD-500H-12R	72-144V	+12V @ 40A	480	8.5 x 4.5 x 2.0	7	0.5	0.5	150	174.95	164.95	154.95	144.95
175813	SD-25A-24R	9-18V	+24V @ 1.1A	26.4	3.9 x 3.8 x 1.4	5	0.2	0.2	150	25.95	23.95	21.95	20.49
2107186	SD-25C-24R	36-72V	+24V @ 1.1A	26.4	3.9 x 3.8 x 1.4	5	0.2	0.2	150	25.95	23.95	21.95	20.49
2107266	SD-50A-24R	9.2-18V	+24V @ 2.1A	50.4	6.3 x 3.8 x 1.5	5	0.2	0.2	150	32.49	29.95	27.95	26.49
212514	SD-50B-24R	19-36V	+24V @ 2.1A	50.4	6.3 x 3.8 x 1.5	5	0.2	0.2	150	32.49	29.95	27.95	26.49
1953954	SD-200B-24R	19-36V	+24V @ 8.4A	201.6	8.5 x 4.5 x 2.0	9	0.5	1.0	150	99.95	94.95	89.95	84.95
1953743	SD-200C-24R	36-72V	+24V @ 8.4A	201.6	8.5 x 4.5 x 2.0	9	0.5	1.0	150	109.95	99.95	94.95	89.95
1953971	SD-350B-24R	19-36V	+24V @ 14.6A	350.4	8.5 x 4.5 x 2.0	9	0.2	1.0	150	109.95	104.95	99.95	94.95
1954009	SD-350C-24R	36-72V	+24V @ 14.6A	350.4	8.5 x 4.5 x 2.0	9	0.2	1.0	150	109.95	104.95	99.95	94.95
1954025	SD-500L-24R	19-72V	+24V @ 21A	504	8.5 x 4.5 x 2.0	7	0.5	0.5	150	174.95	164.95	154.95	144.95
1953911	SD-200B-48R	19-36V	+48V @ 4.2A	201.6	8.5 x 4.5 x 2.0	9	0.5	1.0	150	99.95	94.95	89.95	84.95
1953946	SD-200D-48R	72-144V	+48V @ 4.2A	201.6	8.5 x 4.5 x 2.0	9	0.5	1.0	120	99.95	94.95	89.95	84.95
1954017	SD-350C-48R	36-72V	+48V @ 7.3A	350.4	8.5 x 4.5 x 2.0	9	0.2	1.0	150	109.95	104.95	99.95	94.95
1953989	SD-350B-48R	19-36V	+48V @ 7.3A	350.4	8.5 x 4.5 x 2.0	9	0.3	1.0	120	109.95	104.95	99.95	94.95

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.



## Pure-Sine-Wave DC/AC Inverters

- Output waveform: sine wave
- Thermostatically controlled cooling fan
- Low battery alarm, low battery shutdown, overtemperature, overload, short-circuit, reverse polarity protection
- SAMLEX:** • Operating temperature: 0 ~ 40°C
- Mean Well:** • Working temperature: 0 ~ 60°C
- Output wave form THD: < 3%
- Output connector: 3-prong AC receptacle
- Output voltage: 120VAC ( $\pm 3\%$ ) @ 60Hz
- Output voltage: 110VAC @ 60Hz



PST-30S

TS-1000

\*Additional Sine-Wave Inverters available Online — Enter Web Code XEL

Part No.	Manufacturer	Mfr. Part No.	Output Power (W)	Efficiency (%)	Input Voltage Range (VDC)	Input Connector	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
									1	5
672624	Samlex	PST-30S-12A	300	85	10.5 ~ 16.5	Scretdown terminals	8.4 x 5.8 x 2.6	3.3	\$149.95	\$134.95
1952425	Mean Well	TS-1000-112AF <sup>A</sup>	1000	88	10.5 ~ 15.0	Scretdown terminals	15.5 x 7.2 x 2.8	9.5	399.95	369.95
1943545	Mean Well	TS-1500-112A <sup>A</sup>	1500	87	10.5 ~ 15.0	Scretdown terminals	16.5 x 8.7 x 3.5	7.5	599.95	549.95

\* P/Ns 673467/1952425: with built-in GFCI



## Unregulated Encapsulated Converters

- Input range: 4.5-5.5V
- Ripple & noise: 100mV p-p
- Input filter: capacitor type
- Line & load regulation:  $\pm 1.0\%$
- No external components needed
- Working temp.: -15°C to +60°C
- 1000VDC isolation
- 100% burn-in test
- Protection: short-circuit
- One-year warranty

\* Web Code: SBH



216831

Part No.	Mfr. Part No.	Output Voltage@Current	Size (L"xW"xH")	Pricing			
				1	10	50	
213226	SRS-0505 <sup>A</sup>	+5V @ 100mA	0.5W .88 x .39 x .33	8	\$9.95	\$8.95	\$7.95
216831	SPR01L-12A <sup>A</sup>	+12V @ 84mA	1W .77 x .28 x .40	4	9.95	8.95	7.95

## 10-Amp /15Amp Point-of-Load Converters

### SIL10E/SIL15C Series, Single Output

219117



\* Web Code: YB

- Planar magnetics technology
- Protection: thermal & short circuit
- Over current & short circuit protection (SIL-15C)
- Working temperature: -40°C to 100°C (SIL-10E); 0°C to 80°C (derated SIL-15C)
- Highest power density: 107W/in<sup>3</sup>
- Very high MTBF
- 96% efficiency at 3.3V

Part No.	Series	Input Range	Voltage @ Current	Power	Amp	1	10
219133	SIL10E	3.0-5.5V	2.5V @ 10A	25W	10	\$17.95	\$15.95
219117	SIL10E	4.5-5.5V	0.8-3.6V @ 10A	33W	10	19.95	17.95
218886	SIL15C <sup>A</sup>	4.5-5.5V	0.9-5.0V @ 10A	50W	15	10.95	9.95

● Blue Part No. = Limited Quantity Available



## Encapsulated DC-to-DC Converters

\* Web Code: NAX

### SCW03, SLW05, SCW05, SCW08, SKE10, SKA15 & SKE15 Series

- 1000VDC I/O isolation
- Short-circuit/overload protection
- Cooling by free air convection
- One-year warranty
- Shield metal case
- 2:1 wide input range

### FEC15 Series

- 2:1 & 4:1 wide input voltage range (depending on model)
- Short-circuit/overload protection
- Fixed switching frequency
- 1600VDC isolation
- Standard DIP package (24-pin)
- Two-year warranty

### SBT01 Series

- 1000VDC I/O isolation
- Short-circuit/overload protection
- Cooling by free air convection
- Internal SMD technology

### SCW12 & DCW12 Series

- 2:1 wide input voltage range
- 1500VDC I/O isolation
- Short-circuit/overload protection
- Built-in EMI filter
- Built-in remote on/off control
- Five sided shielded metal case
- Two-year warranty

### DCW03, DCW05, DCW08, DKE10, DKA15 & DKE15 Series

- 1000VDC I/O isolation
- Short-circuit/overload protection
- 2:1 wide input range
- Cooling by free air convection
- One-year warranty

### DKA30, TKA30 & TKB20 Series

- 1000VDC I/O isolation
- Remote on/off control
- 2:1 wide input range
- Short-circuit/overload protection
- Cooling by free air convection
- Six sided shielded metal case
- One-year warranty



SLW05



FEC15



SBT01



DKA15



DCW12



TKA30

Part No.	Manufacturer	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (%)	Load Reg. (%)	Ripple & Noise (mV p-p)	Pricing			
				Voltage @ Current	Pwr (W)						1	5	25	100
<b>Single Output</b>														
220354	Mean Well <sup>A</sup>	SLW05A-033	9-18V	+3.3V @ 1.5A	5	2.0x1.0x0.44	5	0.2	0.5	100	\$19.95	\$17.95	\$15.95	\$14.49
220337	Mean Well <sup>A</sup>	SKE10B-033	18-36V	+3.3V @ 2.4A	8	2.0x1.0x0.44	5	0.3	0.5	50	19.95	16.95	15.95	14.95
220345	Mean Well <sup>A</sup>	SKE10C-033	36-72V	+3.3V @ 2.4A	8	2.0x1.0x0.44	5	0.3	0.5	50	14.95	13.95	12.95	11.95
1944071	Power Mate <sup>A</sup>	FEC15-24S3P3	18-36V	+3.3V @ 4A	15	2.0x1.0x0.4	6	0.5	0.5	50	32.95	29.95	26.95	24.95
2106790	Mean Well <sup>A</sup>	SBT01M-05	10.8-13.2V	+5V @ 0.2A	1	0.5x0.3x0.2	8	8.0	1.2	100	4.95	4.49	3.95	3.69
213269	Mean Well <sup>A</sup>	SCW03A-05	9-18V	+5V @ 0.6A	3	1.25x0.8x0.48	10	1.0	0.5	100	16.95	14.95	12.95	11.49
1953292	Mean Well <sup>A</sup>	SCW05A-05	9-18V	+5V @ 1A	5	1.25x0.8x0.48	8	0.5	0.5	50	17.95	15.95	13.95	12.49
216929	Mean Well <sup>A</sup>	SLW05A-05	9-18V	+5V @ 1A	5	2.0x1.0x0.44	5	1.0	0.2	100	22.95	19.95	17.95	15.95
216937	Mean Well <sup>A</sup>	SLW05B-05	18-36V	+5V @ 1A	5	2.0x1.0x0.44	5	1.0	0.2	100	22.95	19.95	17.95	15.95
1953313	Mean Well <sup>A</sup>	SCW05B-05	18-36V	+5V @ 1A	5	1.25x0.8x0.48	8	0.5	0.5	50	17.95	15.95	13.95	12.49
213234	Mean Well <sup>A</sup>	SLW05C-05	36-72V	+5V @ 1A	5	2.0x1.0x0.44	5	1.0	0.2	100	22.95	19.95	17.95	15.95
216962	Mean Well <sup>A</sup>	SKE10A-05	9-18V	+5V @ 2A	10	2.0x1.0x0.44	5	0.3	1.0	50	28.95	25.95	22.95	19.95
216953	Mean Well <sup>A</sup>	SKE10B-05	18-36V	+5V @ 2A	10	2.0x1.0x0.44	5	0.3	0.5	50	28.95	25.95	22.95	19.95

Encapsulated Converters continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



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# Encapsulated & Open-Frame DC-to-DC Converters

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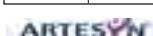


## Encapsulated DC-to-DC Converters (Continued)

[Photos on previous page](#)

\* Web Code: NAX

Part No.	Manufacturer	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
				Voltage @ Current	Pwr (W)						1	5	25	100
<b>Single Output (Continued)</b>														
216945	Mean Well	SKE10C-05	36-72V	+5V @ 2A	10	2.0x1.0x0.44	5	0.3	1.0	50	\$28.95	\$25.95	\$22.95	\$19.95
1953428	Mean Well	SCW12A-05	9-18V	+5V @ 2.4A	12	1.25x0.8x0.48	9	0.5	0.5	50	22.95	21.95	20.95	19.95
1953461	Mean Well	SCW12C-05	36-72V	+5V @ 2.4A	12	1.25x0.8x0.48	9	0.5	0.5	50	22.95	21.95	20.95	19.95
155716	Mean Well	SKE15A-05	9-18V	+5V @ 3A	15	2.0x2.0x0.43	5	0.3	0.5	50	28.95	25.95	22.95	19.95
1954172	Mean Well	SKA15B-05	18-36V	+5V @ 3A	15	2.0x1.0x0.44	5	0.2	0.5	50	23.95	22.49	20.95	19.95
213277	Mean Well	SKE15B-05	18-36V	+5V @ 3A	15	2.0x2.0x0.43	5	0.3	0.5	50	28.95	25.95	22.95	19.95
216911	Mean Well	SLW05B-12	18-36V	+12V @ 0.417A	5	2.0x1.0x0.44	5	1.0	0.2	100	15.49	14.49	13.49	12.49
1953495	Mean Well	SCW08A-12	9-18V	+12V @ 0.67A	8	1.25x0.8x0.48	8	0.5	0.5	60	17.95	16.95	15.95	14.95
1953516	Mean Well	SCW08B-12	18-36V	+12V @ 0.67A	8	1.25x0.8x0.48	8	0.5	0.5	60	17.95	16.95	15.95	14.95
217024	Mean Well	SKE10B-12	18-36V	+12V @ 0.84A	10	2.0x1.0x0.44	5	0.3	0.5	60	28.95	25.95	22.95	19.95
1953452	Mean Well	SCW12B-12	18-36V	+12V @ 1A	12	1.25x0.8x0.48	9	0.5	0.5	60	22.95	21.95	20.95	19.95
1953479	Mean Well	SCW12C-12	36-72V	+12V @ 1A	12	1.25x0.8x0.48	9	0.5	0.5	60	22.95	21.95	20.95	19.95
1953161	Mean Well	SKA15A-12	9-18V	+12V @ 1.25A	15	2.0x1.0x0.44	5	0.2	0.5	60	29.95	26.95	23.95	21.95
155708	Mean Well	SKE15A-12	9-18V	+12V @ 1.25A	15	2.0x2.0x0.43	5	0.3	0.5	60	28.95	25.95	22.95	19.95
213285	Mean Well	SKE15B-12	18-36V	+12V @ 1.25A	15	2.0x2.0x0.43	5	0.3	0.5	60	28.95	25.95	22.95	19.95
1953170	Mean Well	SKA15B-12	18-36V	+12V @ 1.25A	15	2.0x1.0x0.44	5	0.2	0.5	60	23.95	22.49	20.95	19.95
1953196	Mean Well	SKA15C-12	36-72V	+12V @ 1.25A	15	2.0x1.0x0.44	5	0.2	0.5	60	23.95	22.49	20.95	19.95
216882	Mean Well	SLW05A-15	9-18V	+15V @ 0.333A	5	2.0x1.0x0.44	5	1.0	0.2	100	19.95	17.95	15.95	14.49
216980	Mean Well	SKE10A-15	9-18V	+15V @ 0.666A	10	2.0x1.0x0.44	5	0.3	1.0	60	26.95	23.95	21.95	19.95
155695	Mean Well	SKE15A-24	9-18V	+24V @ 0.625A	15	2.0x2.0x0.43	5	0.3	0.5	80	28.95	25.95	22.95	19.95
<b>Dual Output</b>														
155919	Mean Well	DCW03A-05	9-18V	±5V @ 0.3A	3	1.25x0.8x0.48	10	1.0	0.5	100	\$15.95	\$13.95	\$12.49	\$10.95
217032	Mean Well	DKE10A-05	9-18V	±5V @ 1A	10	2.0x1.0x0.44	5	0.3	0.5	50	25.95	23.95	21.95	19.95
1954421	Mean Well	DCW12A-05	9-18V	±5V @ 1.2A	12	1.25x0.8x0.48	9	0.5	0.5	50	23.95	21.95	20.95	19.95
1954076	Mean Well	DCW12C-05	36-72V	±5V @ 1.2A	12	1.25x0.8x0.48	9	0.5	0.5	50	23.95	21.95	20.95	19.95
1953065	Mean Well	DKA15A-05	9-18V	±5V @ 1.5A	15	2.0x1.0x0.44	5	0.2	0.5	50	25.95	23.95	22.49	20.95
1953081	Mean Well	DKA15B-05	18-36V	±5V @ 3A; -5V @ 1.5A	15	2.0x1.0x0.44	5	0.2	0.5	50	25.95	23.95	22.49	20.95
1954121	Mean Well	DKA30C-05	36-72V	±5V @ 2.5A	25	2.0x2.0x0.82	8	0.5	0.5	100	32.95	29.95	27.95	25.95
161702	Mean Well	DCW03A-12	9-18V	±12V @ 0.125A	3	1.25x0.8x0.48	10	1.0	0.5	100	15.95	13.95	12.49	10.95
1953276	Mean Well	DCW05C-12	36-72V	±12V @ 0.23A	5.5	1.25x0.8x0.48	8	0.5	0.5	60	14.95	13.95	12.95	11.95
1953241	Mean Well	DCW05A-12	9-18V	±12V @ 0.23A	5.5	1.25x0.8x0.48	8	0.5	0.5	60	14.95	13.95	12.95	11.95
1953356	Mean Well	DCW08A-12	9-18V	±12V @ 0.335A	8	1.25x0.8x0.48	8	0.5	0.5	60	19.95	18.49	16.95	15.95
1953399	Mean Well	DCW08C-12	36-72V	±12V @ 0.335A	8	1.25x0.8x0.48	8	0.5	0.5	60	19.95	18.49	16.95	15.95
217092	Mean Well	DKE10A-12	9-18V	±12V @ 0.42A	10	2.0x1.0x0.44	5	0.3	0.5	60	25.95	23.95	21.95	19.95
1953022	Mean Well	DCW12B-12	18-36V	±12V @ 0.5A	12	1.25x0.8x0.48	9	0.5	0.5	60	23.95	21.95	20.95	19.95
1953049	Mean Well	DCW12C-12	36-72V	±12V @ 0.5A	12	1.25x0.8x0.48	9	0.5	0.5	60	23.95	21.95	20.95	19.95
161729	Mean Well	DKE15A-12	9-18V	±12V @ 0.625A	15	2.0x2.0x0.43	5	0.3	0.5	60	26.95	24.95	22.95	20.95
1953090	Mean Well	DKA15B-12	18-36V	±12V @ 0.625A	15	2.0x1.0x0.44	5	0.2	0.5	60	25.95	23.95	22.49	20.95
1953102	Mean Well	DKA15C-12	36-72V	±12V @ 0.625A	15	2.0x1.0x0.44	5	0.2	0.5	60	25.95	23.95	22.49	20.95
1953364	Mean Well	DCW08A-15	9-18V	±15V @ 0.267A	8	1.25x0.8x0.48	8	0.5	0.5	60	18.95	17.95	16.95	15.95
1953381	Mean Well	DCW08B-15	18-36V	±15V @ 0.267A	8	1.25x0.8x0.48	8	0.5	0.5	60	18.95	17.95	16.95	15.95
217112	Mean Well	DKE10A-15	9-18V	±15V @ 0.333A	10	2.0x1.0x0.44	5	0.3	0.5	60	25.95	23.95	21.95	19.95
217075	Mean Well	DKE10B-15	18-36V	±15V @ 0.333A	10	2.0x1.0x0.44	5	0.3	0.5	60	25.95	23.95	21.95	19.95
1953111	Mean Well	DKA15C-15	36-72V	±15V @ 0.5A	15	2.0x1.0x0.44	5	0.2	0.5	60	25.95	23.95	22.49	20.95
1954130	Mean Well	DKA30A-15	9-18V	±15V @ 1A	30	2.0x2.0x0.82	8	0.5	0.5	100	32.95	29.95	27.95	25.95
213293	Mean Well	DKE15A-24	9-18V	±24V @ 0.313A	15	2.0x2.0x0.43	5	0.3	0.5	80	29.95	26.95	24.49	21.95
<b>Triple Output</b>														
217648	Mean Well	TKB20C-B	36-72V	+5V @ 2.5A; ±12V @ 0.31A	20	1.2x2.0x0.82	8	0.2	0.2	100	\$24.95	\$22.95	\$20.95	\$18.95
1953217	Mean Well	TKA30B-B	18-36V	+5V @ 0.31A; ±12V @ 0.31A	25	2.0x2.0x0.82	8	5.0	5.0	100	39.95	35.95	32.95	29.95



## Isolated Open-Frame DC-to-DC Converters

- Isolation voltage: 1500VDC
- 100% burn-in test
- CXA20: 4:1 input voltage range
- Remote ON/OFF
- Two-year warranty

CXE15/CXA20/EXQ60: No minimum load

**Blowout Prices**



CXE15

Part No.	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage @ Current	Power (W)						1	5	25	
219070	CXE15-48S1V8	33-75V	+1.8V @ 6A	10.8	2.0 x 1.0 x 0.35	6	0.3	2.0	40	\$22.95	\$19.95	\$17.95	
219088	CXE15-48S2V5	33-75V	+2.5V @ 6A	15	2.0 x 1.0 x 0.35	6	0.3	1.5	40	22.95	19.95	17.95	
218894	EXO60-48D3V3-2V5-R	33-75V	+2.5V @ 16A; +3.3V @ 12A	40	2.3 x 1.5 x 0.50	7	—	—	60	64.95	59.95	54.95	
219053	CXE15-48S3V3	33-75V	+3.3V @ 4.5A	15	2.0 x 1.0 x 0.35	6	0.1	0.5	70	22.95	19.95	17.95	
219109	CXA20-48S3V3	18-75V	+3.3V @ 6A	19.8	2.0 x 1.6 x 0.41	8	0.1	0.2	75	22.95	19.95	17.95	
218907	EXO60-48D05-3V3-R	33-75V	+3.3V @ 15A; +5V @ 12A	60	2.3 x 1.5 x 0.50	7	—	—	60	64.95	59.95	54.95	

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197](#)

Save 10% or more on most batteries!

## Lithium, NiCd & NiMH Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.



**NEW**  
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### Lithium

Part No.	Product No.	Manufacturer	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
673627	NB4414/F9D	Panasonic	1	Coin cell	2.0	1.0	4.8mm body w/ tabs (2)	0.18"Dia. x 0.06"Thick	\$ .49	\$ .45	\$ .39
673601	NBL621/F9DE	Panasonic	1	Coin cell	2.0	4.0	Vertical PC mount	0.27"Dia. x 0.10"Thick	.85	.75	.65
<b>2119865</b>	CR1632	Various	2	Coin cell	3	120	Clock/memory/watch	0.63"Dia. x 0.13"Thick	1.09	.95	.85
11789	CR2325	Various	2	Coin cell	3	165	Clock/memory/watch	0.91"Dia. x 0.13"Thick	1.79	1.59	1.45
14162	CR2032	Various	2	Coin cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.25	1.09	.99
1585451	DL2032	Duracell	2	Coin cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.49	1.35	1.19
689071	DL2450	Various	2	Coin cell	3	600	Clock/memory/watch	0.95"Dia. x 0.18"Thick	2.25	1.95	1.75
2113691	BR2330	Dantona	3	Coin cell	3	255	Clock/memory/watch (w/ legs)	0.90"Dia. x 0.12"Thick	2.45	2.19	1.95
<b>2119873</b>	CR2	Various	4	Cylinder	3	750	Consumer tip/digital camera	1.66"L x 0.61"Dia.	4.95	4.49	4.09
<b>2119881</b>	2CR5	Various	5	Dual cyl.	6	1400	(2) term. on one end	1.76)L x 1.33"Dia.	7.95	7.29	6.95
126754	TL5101S	Tadiron	4	Sub-AA	3.6	850	Macintosh®	0.95)L x 0.56"Dia.	4.75	4.25	3.55
263898	ER14250	ReliaPro	4	Sub-AA	3.6	1000	With axial leads	1.00)L x 0.55"Dia.	4.75	4.25	3.85
240266	ER14250	ReliaPro	4	Sub-AA	3.6	1000	Consumer tip	1.00)L x 0.55"Dia.	4.25	3.95	3.55
673635	CA1/2AA	Various	6	1/2 AA	3	950	Barrel w/ leads (2)	1.0)L x 0.58"Dia.	2.49	2.29	1.95
33371	TL5101P	Tadiron	7	1/2 AA	3.6	850	Barrel w/ leads (clock/mem.)	0.93)L x 0.56"Dia.	6.25	5.65	4.95
33398	TL5104P	Tadiron	8	AA	3.6	1900	Barrel w/ leads (clock/mem.)	1.88)L x 0.56"Dia.	6.95	6.25	5.65
146114	TL5104/S	Tadiron	9	AA	3.6	1900	Barrel pressure (clock/mem.)	1.91)L x 0.56"Dia.	6.95	6.25	5.65
263935	ER14505	ReliaPro	10	AA	3.6	2400	With solder tabs	2.00)L x 0.55"Dia.	5.95	5.35	4.95
240258	CR123A	ReliaPro	11	A	3	1300	Photo/computer	1.36)L x 0.65"Dia.	2.75	2.49	2.25

Fig. 7



Fig. 8

Fig. 9

Fig. 10

Fig. 11

Fig. 12

Fig. 13

Fig. 14

Fig. 15

Fig. 16

Fig. 17

### NiCd - Rechargeable

Part No.	Product No.	Manufacturer	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
261657	AA-700-CT	ReliaPro	12	AA	1.2	700	Consumer tip	1.90)L x 0.55"Dia.	\$ 1.69	\$ 1.49	\$ 1.35
244515	AA-1000-CT	ReliaPro	12	AA	1.2	1000	Consumer tip	1.90)L x 0.55"Dia.	2.75	2.49	2.25
126720	351FT	Various	13	N/A	3.6	60	2-lead (pin), barrel	0.72)L x 0.61"Dia.	4.49	3.95	3.55
119116	3/V60R	Dantona	13	N/A	3.6	60	3-lead (pin), barrel	0.72)L x 0.61"Dia.	3.35	2.95	2.65
101653	NA101-1	Various	14	N/A	3.6	60	2-lead (eyelet), barrel	0.72)L x 0.61"Dia.	3.95	3.55	3.19

Fig. 15

Fig. 16

Fig. 17

### NiMH - Rechargeable

Part No.	Product No.	Manufacturer	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
231095	AAA-750NM	Dantona	15	AAA	1.2	600	Consumer tip	1.70)L x 0.40"Dia.	\$ 3.45	\$ 3.09	\$ 2.79
244822	AA-1800-CT	ReliaPro	16	AA	1.2	1800	Consumer tip	1.90)L x 0.55"Dia.	3.55	3.19	2.89
231087	AA-1800NM	Dantona	17	AA	1.2	1600	Consumer tip	1.90)L x 0.55"Dia.	3.95	3.55	3.19
244620	9V-200	Bao Tong USA	18	9V	9	200	Snaps	1.94)L x 0.65"Dia.	9.75	8.75	7.95
231108	9V-8.4NM	Dantona	19	9V	9	150	Snaps	1.94)L x 0.61"Dia.	10.95	9.95	8.95
231124	D-900NM	Dantona	20	D	1.2	9000	Consumer tip	2.30)L x 1.30"Dia.	14.95	13.49	11.95

Fig. 18

Fig. 19

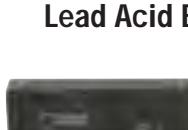
Fig. 20

## Lead Acid Batteries

**\* Web Code: LBR**



264014



264031



318924



264057



264065



264073

- Use with UPS Backup Systems, Security Fire Alarms, Wheel Chairs, Scooters
- Sealed • UL approved
- Rechargeable • Two-year warranty



**Lead Acid Chargers on next page**

Part No.	Mfr. Part No.	Nominal Voltage	Amp-Hrs.	Cross Reference				Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
				Panasonic	YUASA	Eagle Picher	Tempest				1	10
138692	K9120-REVC	6	1.3	Honeywell	—	—	—	Quick connect 0.187"	2.1 x 1.0 x 3.8	0.7	\$ 3.49	\$ 2.95
264014	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	11.95	10.75
317024	LA-TY-6-12	6	12.0	—	—	—	—	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.6	19.95	17.95
318844	LA-TY-12-1.2	12	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	14.95	13.45
264031	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	19.95	17.95
318924	LA-TY-12-3.2	12	3.2	—	—	—	—	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	22.95	20.65
264057	TY-12-7.5	12	7.5	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 3.7	5.6	22.95	20.65
264065	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.9	9.0	39.95	35.95
264073	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	47.95	42.95
318852	LA-TY-12-35	12	35.0	—	—	—	—	Nut & bolt	7.6 x 5.1 x 6.3	27.6	79.95	75.95

**\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above**



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147

# Battery Holders, Snaps, Packs & Chargers

JAMECO ReliaPro

\* Web Code: UAB

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

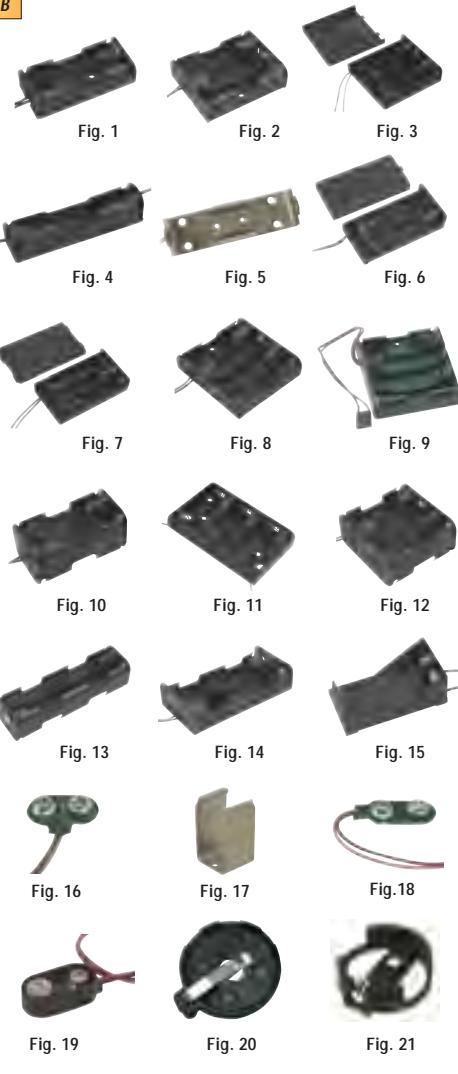
## Battery Holders

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, tabs or snaps.

Part No.	Cross Ref. No.	*Mfr. Flg.	No. of Cells	Connector	Sides	Features	1	10	100	500
216283	BH-421-1A <del>A</del>	JRP 1	2-AAA	Wires	Single		\$ .59	\$ .55	\$ .49	\$ .39
216292	SBH-421-AS	JRP 1	2-AAA	Wires	Single	w/ cover & switch	.65	.59	.55	.49
216303	BH-431-1A	JRP 2	3-AAA	Wires	Single		.79	.69	.65	.59
216312	SBH-431-1AS <del>A</del>	JRP 2	3-AAA	Wires	Single	w/ cover & switch	.95	.85	.75	.69
216339	SBH-441-AS <del>A</del>	JRP 3	4-AAA	Wires	Single	w/ cover & switch	1.45	1.29	1.19	.89
216072	BH-311-2A <del>A</del>	JRP 4	1-AA	Wires	Single	Aluminum	1.05	.95	.85	.75
643954	139 <del>♦</del>	KEY 5	1-AA	Tabs	Single		.55	.49	.45	.39
216081	BH-321-2A <del>A</del>	JRP 1	2-AA	Wires	Single		.75	.69	.59	.55
216099	BH-321-4A <del>A</del>	JRP 1	2-AA	Wires	Single	w/ mounting tabs	.75	.69	.59	.55
216102	SBH-321-2A <del>A</del>	JRP 6	2-AA	Wires	Single	w/ cover, no switch	.75	.69	.59	.55
216120	SBH-321-1AS <del>A</del>	JRP 6	2-AA	Wires	Single	w/ cover & switch	.89	.79	.72	.65
216136	BH-331-A <del>A</del>	JRP 2	3-AA	Wires	Single		.85	.77	.69	.62
216144	SBH-331-AS <del>A</del>	JRP 7	3-AA	Wires	Single	w/ cover & switch	.79	.69	.65	.59
216152	BH-341-2A <del>A</del>	JRP 8	4-AA	Wires	Single		1.15	1.05	.95	.85
105858	BH-PC <del>A</del> <del>S</del>	JRP 9	4-AA	Wires	Single	wires w/ connector	.95	.85	.79	.64
216179	BH-343-1A <del>A</del>	JRP 10	4-AA	Wires	Dual		.79	.69	.65	.59
216187	SBH-341-1AS <del>A</del>	JRP 3	4-AA	Wires	Single	w/ cover & switch	1.05	.95	.85	.75
2095453	SBH-341-1A <del>A</del>	JRP 3	4-AA	Wires	Single	w/ cover, no switch	.99	.85	.75	.65
216216	BH-363-A	JRP 12	6-AA	Wires	Dual		.65	.59	.55	.49
216223	BH-364-A	JRP 11	6-AA	Wires	Single		.95	.85	.79	.65
216240	BH-383-A	JRP 12	8-AA	Wires	Dual		1.09	.99	.89	.69
216267	BH-383-B <del>A</del>	JRP 12	8-AA	Snaps	Dual		1.19	1.09	.99	.79
216259	BH-382-B <del>A</del>	JRP 13	8-AA	Snaps	Dual		1.35	1.19	1.09	.79
216363	BH-242-1A <del>A</del>	JRP 14	4-C	Wires	Single		1.09	.99	.89	.69
216371	BH-111-1A	JRP 4	1-D	Wires	Single		.69	.65	.59	.49
216390	BH-121-1A <del>A</del>	JRP 1	2-D	Wires	Single		1.19	1.09	.95	.79
216401	BH-142-A <del>A</del>	JRP 14	4-D	Wires	Single		1.35	1.19	1.09	.89
216427	BH-9V-A <del>A</del>	JRP 15	1-9V	Wires	Single		.75	.69	.59	.55
11280	A104-R <del>A</del>	JRP 16	1-9V	Wires	Single	3'L, 26AWG, snaps	.39	.35	.29	.25
105794	GBH-1009-R <del>A</del>	JRP 17	1-9V	Wires	Single	Metal holder	.35	.32	.29	.25
1949488	BAT-SNAP-4	♦ 18	1-9V	Wires	Single	4'L, 26AWG, snaps	.29	.26	.23	.19
109154	BC6-R <del>A</del>	JRP 18	1-9V	Wires	Single	6'L, 26AWG, snaps	.29	.26	.23	.19
216452	SBS-IR-1-R <del>A</del>	JRP 19	1-9V	Wires	Single	6'L, 26AWG, snaps	.35	.32	.29	.25
101470	A102-R <del>A</del>	JRP 18	1-9V	Wires	Single	10'L, 26AWG, snaps	.35	.32	.29	.25
236996	103	KEY 20	1-CR2032	PC mount	Coin cell		1.65	1.49	1.35	1.19
355434	17002-00603	JRP 21	1-CR2032	PC mount	Coin cell		.79	.69	.65	.59
38543	2S2325	JRP 20	1-CR2354 or 2-CR2325	PC mount	Coin cell		.79	.69	.65	.59

\$ Battery holder used in many personal computers

♦ Blue Part No. = Limited Quantity Available



JAMECO ReliaPro

JAMECO EXCLUSIVE

\* Web Code: LAA

## Rechargeable Battery Packs

Part No.	Fig.	Volt	Cell	Size (L x Dia.)	Type	mAh	Connection	Price	10	25
298821	1	3.6	D Single	7.0" x 1.29" (177.8mm x 32.8mm)	NiCd	5000	Solder tab	\$14.95	\$13.95	\$12.95
298652	2	4.8	SC Single	1.72" x 0.9" (43.7mm x 22.9mm)	NiCd	2200	Solder tab	15.95	14.49	12.95
299621	3	4.8	D Single	4.75" x 1.29" (120.7mm x 32.8mm)	NiCd	5000	Lead wire	29.95	26.95	—



## 360 & 1000-Watt Single Output Lead Acid Battery Chargers

\* Web Code: ABC



- Input: 115VAC/230VAC @ 47-64Hz (switch-selectable)
- 19524091952417/1954332/1954341/1954359: with built-in passive PFC function
- Overload, short-circuit, reverse polarity, over voltage, over temperature protection
- 1952417/1954308/1954316/1954324: Fan on/off control (depending on charging current)
- Charger for lead acid batteries
- 1954316/1954324: Size: 10.0" L x 5.3" W x 1.9" H, Weight: 3.3 lbs.
- 19524091952417/1954308: Size: 9.3" L x 5.3" W x 1.9" H, Weight: 3.3 lbs.
- 1954332/1954341/1954359: Size: 11.8" L x 7.2" W x 2.8" H, Weight: 7.7 lbs.

Part No.	Mfr. Part No.	Watts	Boost Charge Voltage	Float Charge Voltage	Recommended Battery Capacity (AMP Hours)	Pricing	
						1	5
1952417	PB-360P-12 <del>A</del>	360	14.4	13.6	80-200	\$94.95	\$84.95
1954308	PB-360N-12 <del>A</del>	360	14.4	13.6	80-200	94.95	84.95
1954316	PB-360N-24 <del>A</del>	360	28.8	27.2	40-125	94.95	84.95
1954324	PB-360N-48 <del>A</del>	360	57.6	54.4	20-65	94.95	84.95
1954332	PB-1000-12 <del>A</del>	1000	14.4	13.8	200-600	349.95	314.95
1954341	PB-1000-24 <del>A</del>	1000	28.8	27.6	120-350	349.95	314.95
1954359	PB-1000-48 <del>A</del>	1000	57.6	55.2	60-175	349.95	314.95

[www.Jameco.com](http://www.Jameco.com)

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\* JRP = Jameco ReliaPro | KEY = Keystone | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)



## Evergreen, Energizer®, Duracell® & Lexcell® Alkaline Batteries



2120153

198731

198791

215845

2112461

2112452

2112428

2112444

2112436

198707

198715

115432

Part No. Size Min Ea. Price

Part No.	Size	Min	Ea. Price
2112461	9V, Super Alkaline Lexcell®††	2	\$ .98
2112452	1.5V, D-cell Lexcell®††	2	.87
2112428	1.5V, C-cell Lexcell®††	2	.81
2112444	1.5V, AA Lexcell®†	4	.20
2112436	1.5V, AAA Lexcell®†	4	.20

Part No.	Size	1	10	Part No.	Size	Min	1	40	100
2120153	9-volt Winco .....	\$1.79	\$1.59	198707	AA Energizer®†	4	\$.79	\$.69	\$.65
198731	9-volt Energizer® .....	2.05	1.85	198715	AAA Energizer®†	4	.69	.59	.55
198791	9-volt Duracell® .....	2.95	2.65	115432	AAA Duracell®††	2	.69	.59	.49
215845	1.5V D-cell Energizer® .....	1.15	1.05	† Sold in multiples of 4    †† Sold in multiples of 2					

\*Web Code: NBF

Blowout  
Prices

## Silver Oxide and Zinc Chloride Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

Part No.	Cross Ref.	Description	1	10	140783
140783	357	Silver oxide, button, 175mAh ....	\$1.55	\$1.39	
2119831	S736S	Silver oxide, button, 34mAh .....	1.25	1.09	
2119849	S1131S	Silver oxide, button, 73mAh .....	1.35	1.19	
2119857	S1142S	Silver oxide, button, 116mAh .....	1.45	1.29	
2119890	ER6MSG	Zinc chloride, AA .....	.59	.55	
2119822	ERO3MSG	Zinc chloride, AAA .....	.69	.59	
151095	GF6F22	Zinc chloride, 9V .....	1.35	1.19	151095

## Panel Meters

### 0.6" High 3½ & 4½-Digit LCD Digital Panel Meters



- Input ranges: 200mV, 20V, 200V, 500V
- Accuracy: ±0.5%
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095, above left)
- Automatic polarity indication

\*Web Code: WBU

Part No.	Cross Ref. No.	Description	1	10	25
108388	PM-428	3½-digit (no bezel, snap mount) .....	\$10.95	\$9.95	\$8.95
175951	PM-128	3½-digit (bezel, screw mount) .....	12.95	11.65	10.49
146835	PM-188BL	3½-digit (with backlight display) .....	14.95	13.45	11.95
123140	PM-328	4½-digit (bezel, screw mount) .....	29.95	26.95	24.25

Can not use in common ground applications



### Analog Panel Meters

- Includes mounting hardware
- 316507: Includes current shunt

Part No.	Mfr. P/N	Range	Size (W"xH"xD")	1	10	*Web Code: YBQ
316603	AVM6015	0 - 15VDC	2.4 x 1.8 x 1.3 ....	\$9.95	\$8.95	
316671	AVM7015	0 - 15VDC	2.8 x 2.4 x 1.4 ....	9.95	8.95	
316638	AVM6030	0 - 30VDC	2.4 x 1.8 x 1.3 ....	9.95	8.95	
316654	AVM7030	0 - 30VDC	2.8 x 2.4 x 1.4 ....	9.95	8.95	
316718	AVM60150	0 - 150VAC	2.4 x 1.8 x 1.3 ....	9.95	8.95	
316785	AVM60300	0 - 300VAC	2.4 x 1.8 x 1.3 ....	9.95	8.95	
315301	AIM60005	0 - 50µA	2.4 x 1.8 x 1.3 ....	9.95	8.95	
316523	AIM6050	0 - 50mA	2.4 x 1.8 x 1.3 ....	9.95	8.95	
316486	AIM60100	0 - 100mA	2.4 x 1.8 x 1.3 ....	9.95	8.95	
316558	AIM60500	0 - 500mA	2.4 x 1.8 x 1.3 ....	9.95	8.95	
316566	AIM60500	0 - 5A	2.4 x 1.8 x 1.3 ....	9.95	8.95	
316582	AIM705000	0 - 5A	2.8 x 2.4 x 1.4 ....	9.95	8.95	
316494	AIM6010A	0 - 10A	2.4 x 1.8 x 1.3 ....	9.95	8.95	
316507	AIM6030A	0 - 30A	2.4 x 1.8 x 1.3 ....	12.95	11.65	



### Drill Mountable Panel Meters

- Mount by simply drilling a single hole (7/32") and insert the threaded section of the panel meter
- Module size: 1.71" L x 0.84" W

Part No.	Mfr. Part No.	Description	Digit Ht.	Supply Volt.	Measurement Range	1	5	25
2113201	EMV-1125A	4-digit, LCD volt/current meter	.50"	7.5-15VDC	200mV-20V/200µA-200mA	\$32.95	\$29.95	\$26.95
2095040	EMV 1200A	3-digit, signal pwr/d, LCD voltmeter	.50"	3-50VDC	4-25VDC	33.95	30.95	27.95
2095058	EMT 1900A	3½-digit, LCD thermometer	.50"	4-28VDC	14-122°F	33.95	30.95	27.95
2095074	EMC 1500A	5-digit, LCD hour meter	.35"	5-27VDC	99999 hours	33.95	30.95	27.95
2095082	EMA 1710A	Analog-style LCD panel meter	—	5-12VDC	0-1VDC	33.95	30.95	27.95

### Multi-Function Graphics Display

Customize the SGD 24-M 2.4" color TFT graphics meter with a simple click of the mouse. Using Lascar's Panel Pilot Windows-based software downloadable from [www.panelpilot.com](http://www.panelpilot.com) select from a number of available meter styles previously provided by a traditional panel meter, choose colors, text labels, voltage input scaling and even display your company logo on power-up. Save all selections to the meter and computer, detach the unit and mount to your panel.

Part No.	Mfr. Part No.	Description	1	5	25
2115354	SGD-24-M	3½-digit, bargraph & analog style meter	\$94.95	\$86.95	\$79.95



PanelPilot

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

149

# Clamp, Analog & Digital Multimeters

See [www.Jameco.com](http://www.Jameco.com) for complete specifications

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

RoHS RoHS Compliant Product DETAILS ON PAGE 197  
+ RoHS Also Available

# Clamp, Analog & Digital Multimeters



\* Web Code: HBK  
NEW MARKED IN PINK

## Basic Measurement Functions

Jameco Part No.	Manufacturer Part No.	Type	No. of Functions	Display Count	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Battery Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H" x W" x D")	Jameco Part No.	Pricing		
														°C	°F	1										5		
1536843	Extech 38073	AMM	6	1	—	2.5V - 300V	10V - 300V	0.5A - 250mA	—	10KΩ - 1MΩ	—		—	—	—	—	✓	✓	✓	✓				3.5 x 6.1 x 1.9	1536843	\$16.95	\$15.95	
1928476	Vastech DT830B	DMM	4	1999	—	200mV - 1000V	200V - 750V	200μA - 10A	—	200Ω - 2MΩ	—		—	—	-20 to 750	-200 to 1400	✓	✓	✓	✓				5.0 x 2.7 x 1.0	1928476	8.95	7.95	
645618	Extech MN35	DMM	5	2000	100μV	200mV - 600V	200mV - 600mV	200mA - 10A	—	200Ω - 20MΩ	—		—	—	—	—	—	—	—	—				5.4 x 25.8 x 1.5	645618	19.95	17.95	
1537184	Extech 381676	DMM	5	2000	100μV	200mV - 600V	200m - 600V	—	—	200Ω - 20MΩ	—		—	—	—	—	—	✓	✓	✓	✓				8.2 x 1.5 x 1.1	1537184	39.95	36.95
214261	Wavetek DM7	DMM	6	1999	1mV	2V - 600V	200V - 600V	200mA	—	2Ω - 2MΩ	—		—	—	—	—	—	✓	✓	✓	✓				5.5 x 3.1 x 1.5	214261	24.95	19.95
220812	Mastech M300	DMM	6	2000	1mV	2V - 500V	200V - 500V	200mA	—	2KΩ - 2MΩ	—		—	—	—	—	—	✓	✓	✓	✓				4.7 x 2.7 x 0.8	220812	10.95	9.95
355207	Velleman DVM850BL	DMM	6	2000	100μV	200mV - 100V	200V - 600V	200μA - 10A	—	200Ω - 2MΩ	—		—	—	—	—	—	✓	✓	✓	✓				5.4 x 2.7 x 1.2	355207	17.95	15.95
318781	BenchPro BP-1562	DMM	6	2000	100μV	200mV - 600V	200V - 750V	200μA - 10A	—	200Ω - 2MΩ	—		—	—	—	—	—	✓	✓	✓	✓				5.4 x 2.7 x 1.2	318781	10.95	9.95
220759	Mastech MAS830L	DMM	7	2000	100μV	200mV - 600V	200V - 600V	200μA - 10A	—	200Ω - 2MΩ	—		—	—	—	—	—	✓	✓	✓	✓				5.7 x 3.0 x 1.4	220759	14.95	13.95
2113471	Fluke-87-5	DMM	7	6,000	10μV	0 - 1000V	0 - 1000V	0 - 10A	0 - 10A	0 - 50M	0 - 9999μF		0 - 200K	-200 to 1090	-328 to 1994	✓	✓	✓	✓	✓	✓	✓	7.4 x 3.4 x 1.3	2113471	379.95	359.95		
220741	Mastech MAS838	DMM	8	2000	100μV	200mV - 600V	200V - 600V	2mA - 10A	—	200Ω - 2MΩ	—		—	-20 to 1000	—	✓	✓	✓	✓	✓	✓	✓	5.7 x 3.0 x 1.4	220741	19.95	17.95		
2113480	Fluke-233	DMM	8	10,000	100μV	0.1mV - 1000V	0.1mV - 1000V	1mA - 10A	1mA - 10A	0.1 - 40M	1000nF - 9999μF		0.1 - 50K	-40 to 400	-40 to 752	✓	✓	✓	✓	✓	✓	✓	2.1 x 2.1 x 7.6	2113480	299.95	284.95		
318764	BenchPro BP-1415	DMM	8	20,000	10μV	200mV - 1000V	2V - 700V	2mA - 20A	2mA - 20A	200Ω - 200MΩ	2000pF - 20μF		20k	—	—	✓	✓	✓	✓	✓	✓	✓	7.4 x 3.6 x 1.2	318764	59.95	54.95		
645626	Extech EX330*	DMM	9	4000	100μV	.1mV - 1000V	.1mV - 1000V	.1μA - 10A	.1μA - 10A	.1Ω - 40MΩ	.001nF - 200μF		.001 - 10M	-50 to 1000	-58 to 1832	✓	✓	✓	✓	✓	✓	✓	5.7 x 2.9 x 1.6	645626	53.95	49.95		
1581177	Extech EX430	DMM	9	4000	100μV	.1mV - 1000V	.1mV - 1000V	.1μA - 20A	.1μA - 20A	.1Ω - 40MΩ	.1nF - 100μF		.001 - 10	-20 to 750	-4 to 1382	✓	✓	✓	✓	✓	✓	✓	7.4 x 3.2 x 2.0	1581177	89.95	79.95		
2094127	Extech EX505	DMM	9	4000	10μV	400mV - 1000V	400mV - 1000V	400μA - 10A	400μA - 10A	40nF - 100pF	400nF - 100pF		5.999 - 9.99M	-20 to 750	-4 to 1382	✓	✓	✓	✓	✓	✓	✓	7.2 x 3.2 x 2.2	2094127	109.95	105.95		
1537328	Fluke 115†	DMM	9	6000	100μV	600mV - 600V	600mV - 600V	6A - 20A	6A - 20A	600Ω - 40MΩ	1000nF - 9999μF		99.99 - 50k	—	—	✓	✓	✓	✓	✓	✓	✓	10.9 x 6.3 x 2.2	1537328	156.95	149.95		
1537336	Fluke 117†	DMM	9	6000	100μV	600mV - 600V	600mV - 600V	6A - 20A	6A - 20A	600Ω - 40MΩ	1000nF - 9999μF		99.99 - 50k	—	—	✓	✓	✓	✓	✓	✓	✓	10.9 x 6.3 x 2.2	1537336	199.95	189.95		
1939651	Extech EX530	DMM	9	40,000	100μV	400mV - 1000V	400mV - 1000V	400mA - 10A	400mA - 10A	400Ω - 40MΩ	40nF - 40pF		40 - 400	-45 to 750	-50 to 1382	✓	✓	✓	✓	✓	✓	✓	7.4 x 3.2 x 2.0	1939651	209.95	199.95		
2118459	RSR MS8229	DMM	10	3999	1V																							

# Environmental Meters & Testers

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**



F of V: Field of View (Distance to target)

**★ Web Code: EMT**

Part No.	Manufacturer	Mfr. Part No.	Description	1	5
1537299	Extech	IR100	Thermometer, Mini IR, measures temp. (-31 to 446°F) F of V 1:1	\$39.95	\$36.95
219361	Extech	IR-201	Thermometer, Pocket IR w/ Laser Pointer, measures temp. (-58° to 518°F) F of V 6:1	59.95	56.95
2112541	Extech	42510A	Thermometer, wide range mini IR, 12:1 compact thermometer w/ laser pointer (-58 to -1200°F/-50 to -650°C) 12:1 Compact IR	99.95	94.95
214480	Fluke	FLUKE-52-2	Thermometer, measures temp. large backlit dual display, dust splash resistant (-328° to 2501°F)	269.95	249.95
198045	Extech	445703	Thermometer, Digital Hygro/Humidity Meter w/ Indoor Readings, measures temp. (14° to 140°F) & RH (10-99%),	39.95	37.95
1939634	Extech	445713	Thermometer, Digital Hygro/Humidity Meter w/ Indoor & Outdoor Readings & Remote Sensor on 35" cable, temp. (14° to 140°F) & RH (10-99%)	44.95	39.95
218085	Extech	45118	Thermo-Anemometer, Mini, measures temp. (0° to 122°F) & air velocity (1.1 to 62.5mph)	99.95	89.95
1939731	Extech	RPM10	Thermometer, IR & Tachometer, measures temp. (-4° to 600°F) & RPM: photo tach. (10 to 99,999 rpm), contact tach. (.5 to 19,999 rpm) & surface speed (.2 to 6560 feet/min or .05 to 1999.9 miles/min)	289.95	269.95
2112575	Extech	EA11A	Thermometer, Type K, EasyView Series, Dual LCD, Single input with thermocoupler (-58 to 1999°F, -50 to 1300C)	89.95	84.95
2094266	Extech	DA50	AC Current Detector, telescoping 3', non contact, 200-1000A @ 50/60Hz, for shielded and hidden wires	39.95	37.95
1585899	Extech	CB100	AC Circuit Breaker Finder & Receptacle Tester, locates 110 to 125 volt AC circuits & fuses and has push button GFCI test	39.95	36.95
2094282	Extech	RT30	AC Circuit Identifier, wireless remote, confirms correct circuit is open mid-wire, w/o having to connect directly to the wires	129.95	119.95
1581169	Extech	FG100	Combustible Gas Leak Meter, detects: LNG, LPG from 500 to 6500 ppm	59.95	54.95
2094291	Extech	DT100	Distance Meter, ultrasonic, laser pointer IDs targets from 20° to 50°, calculates: sum of measurements, area and volume	39.95	36.95
2113463	Fluke	1587	Insulation Meter, True RMS, 1000V, CAT IV	624.95	599.95
2113501	Fluke	411D	Laser Distance Meter, 30m/100 ft, no backlight, 2xAAA batteries	109.95	104.95
131764	Various	LX-102	Light Meter, Digital, ranges: LUX 0 to 50,000, footcandle 0 to 5,000	109.95	89.95
2112612	Extech	HD700	Manometer, differential pressure meter, USB, software, 0-2 PSI, 11 UOM	179.95	169.95
2112567	Extech	380260	Megohmmeter, autoranging, digital, insulation test voltages, 250V, 500V, 1000V, insulation resis. 200MΩ, 2000MΩ, large display	229.95	214.95
1939642	Extech	480836	RF EMF Strength Meter, measures frequency (50MHz to 3.5GHz)	229.95	209.95
645642	Extech	407730	Sound Level Meter, Digital, decibel range (40dB to 130dB)	89.95	79.95
667526	Fluke	LVD1	Voltage Detector & Flashlight, detects voltages from 40VAC to 300VAC, 1-15° away	22.95	19.95
2113594	Fluke	LVD2	Voltage Detector & LED Flashlight, dual sense, 90-600V, CAT IV	31.95	30.95
2113535	Fluke	1AC-A1-II	AC Voltage Detector, 90-1000V, flat tip / English / LASPN / CFR	25.95	24.95
2113543	Fluke	1LAC-A-II	Low Voltage Detector, 20-90VAC, round tip, Americas / Pacific	25.95	24.95
2094274	Extech	DV50	Voltage Detector, telescoping 3', non contact, 5-1000VAC @ 50/60Hz, for shielded and hidden wires	29.95	27.95
1537272	Extech	CT20	Remote & Local Continuity Tester, drives a 20mA DC current pulse through wires & cables for test	29.95	26.95
115895	BenchPro	251450	UTP Ethernet Cable Tester, Tests: open circuit, shorts, & miswire, connector type: RJ45 8P8C, tests: AT&T Ethernet, 10Base-T, 258A, & 356A cables	34.95	29.95
1928468	Vastech	KT45	Cable Tester for Network & CATV, auto test for continuity, miswires, shorts, open circuits, & reversals	29.95	24.95
145710	BenchPro	145710	Modular Cable Tester, tests 10Base-T, 10Base-2, RJ45/RJ11, 356A, TIA568A/568B, & Token Ring cables, tests: continuity, miswiring, open circuits, shorts, grounding & pin configurations, includes 4 adapters	69.95	62.95
2112604	Extech	480400	Phase Sequence Tester, 40 to 600VAC rated test range for testing phase orientation of three phase power sources, graphical display	79.95	74.95
198002	Extech	40180	Tone Generator & Amplifier Probe, tests: wire trace, continuity, clear/busy/ringing line, & tip/ring ID	79.95	72.95
615136	GC Elec	45-5767	LAN test Network & Modular Cable Test, tests 10Base-T, 10Base-2, RJ45/RJ11, 356A, TIA568A/568B, & Token Ring cables	59.95	54.95
681504	BK Prec	1253	HDTV Portable Pattern Generator for: Plasma, LCD, TFT, CRT, DLP, GLV, & OLED digital systems	349.95	329.95
14285	BenchPro	RS232	RS232 Line Tester, identifies simple interface problems on lines 2-6, 8, 11, 19, 20	7.95	6.95
26729	BenchPro	31D3	RS232 Mini Line Tester, tests any RS-232 (DB25) interface 7 bi-color LEDs indicate status	7.95	6.95
105196	Various	TRIPORT®	RS232 Signal Adapter/Splitter, metal connectors DB25 female/male & DB9 female gold plate DC contacts	8.95	7.95

RoHS compliant product   This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)



## Passive Component R/C SMD Tweezer Meter

One hand operation for fast, precise identification and measure of surface mount components.

- 4000 count LCD display
- Over range & low battery indicators
- Measures resistance, capacitance and diode test
- Relative mode for zero or user applied reference
- Cap. range: 4nF, 40nF, 400nF, 4μF, 40
- Resist. range: 400Ω, 4kΩ, 400kΩ, 4MΩ, 40MΩ



Part No.	Mfr. Part No.	1	5
1939685	RC100	\$59.95	\$54.95

\* Thermometers — Enter Web Code CEL

\* Cable Testers — Enter Web Code TBF



## Passive-Component Digital LCR Meter

- 4½-digit backlit LCD display
- Test frequencies of 120Hz and 1kHz
- Selectable parallel or series equivalent circuit
- Res. ranges: 20Ω to 10MΩ
- Cap. ranges: 2000pF to 10mF
- Induc. ranges: 2000μH to 10,000H
- Quality (Q) reading: 0 to 9999
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off
- Accuracy of 0.7% for L & C, 0.5% for R
- Dissipation Factor (D) reading: 0 to 0.9999
- Measures L, C & R w/ secondary parameter Q, D or R; both are displayed
- Size: 3.6" W x 2.1" D x 7.6" H
- Weight: 0.8 lbs.



**Includes:** Test leads, alligator clips, 9V battery & holster

Part No.	Description	1	5
198678	LCR Meter	\$199.95	\$189.95
189238	9VDC adapter for 198678	5.95	5.35



## Electronic Starter Kit

SAVE \$35



**JAMECO EXCLUSIVE**

This kit includes everything you need to get started with electronics.

**Includes one of each:**

- 8 function 20K count DMM (P/N 318764)
- 6.5" x 3.125" breadboard (P/N 20758)
- Wire cutter (P/N 35482)
- Wire stripper (P/N 127862)
- 11-pc. precision screwdriver set (P/N 226094)
- Soldering iron (P/N 129040) and stand (P/N 36329)
- Solder (P/N 170474) • Hook-up wire (P/N 126085)
- Jumper wire kit (P/N 2096018)
- Electrical tape (P/N 285587)
- Assorted capacitors (P/N 17911) and resistors (P/N 134130)

Part No.	Description	1	5
2099171	Electronic Starter Kit	\$99.95	\$89.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Camera Detector

The easy to use P3 camera detector fits in the palm of your hands. Discreet sweeps of the home, office, or hotel room can be done quickly and efficiently. When a camera is discovered, an LED flickers and an audible alarm sounds



- Auto sensitivity tuner
- Detects frequencies from 50Hz to 3GHz
- Multi-channel scanning
- Power requirements: 2 CR2032 batteries (included)
- Size: 3.25" L x 0.75" W x 0.25" thick

Part No.	Mfr. Part No.	1	10
2096157	P7030	\$29.95	\$26.95

## USB Data Loggers



2076367



2075989



2076412



2113181

**NEW**  
MARKED IN PINK

**★ Web Code: LOG**

2076404

## Kill A Watt™ Energy Consumption Meters

Measures how much energy appliances consume. Simply connect appliances to the Kill A Watt™, and it will assess how efficient they really are. Counts consumption by the Kilowatt-hour, same as your local utility. You can calculate your electrical expenses by the day, week, month, even an entire year. Also check the quality of your power by monitoring voltage, line frequency and power factor.



- Forecast your costs
- Displays volts, amps, watts and Hz
- Max. current: 15A
- Operating voltage: 115VAC
- Large LCD display
- 0.2% accuracy

2075954: Displays usage in dollars

Part No.	Mfr. Part No.	Measures	1	5
2075946	P4400	8	\$22.49	\$19.95
2075954	P4460EZ	10	39.95	36.95

## 50mV/50A Current Shunt

- Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A



Part No.	Product No.	1	5	25
162309	ST-50	\$25.95	\$23.95	\$21.95

**Data Sheets Are Available**  
for Most of the Products We Carry.  
Find Them Easily on the  
Product Specification Page.



[www.Jameco.com](http://www.Jameco.com)

## Humidity/Temperature Data Logger



**★ Web Code: LOG**



2076367

EL-USB-2-LCD

\$99.95

\$89.95

2075989

EL-USB-1

54.95

49.95

2076412

EL-USB-TC-LCD

99.95

89.95

2113181

EL-USB-RT

85.95

79.95

2076404

EL-USB-CO

96.95

89.95

Part No.

Mfr. Part No.

1

5

2075866

RH520A

\$199.95

\$189.95

# Multimeters & Digital Oscilloscopes

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## 3-in-1 Multimeter and Cable/Line Tester

- 2000 count LCD display (15mm display size) w/ automatic polarity indication and white backlight
- Continuity and diode test
- DC voltage ranges: 0.2 to 1000V
- AC voltage ranges: 0.2 to 700V
- DC current ranges: 200µA to 10A
- AC current ranges: 200µA to 10A
- Size: 3.3"W x 1.1"D x 7.3"H
- Weight: 1.4 lbs.



**Includes:** 9V battery, test leads, remote box for cable testing, and users manual

Part No.	Mfr. Part No.	1	5
1955984	DVM1000	\$79.95	\$74.95

## 3-in-1 Lab Center

### Digital Multimeter:

- 3½-digit backlit LCD
- Automatic polarity indication
- DC voltage ranges: 200mV to 600V
- AC voltage ranges: 200V to 600V
- DC current ranges: 200µA to 10A
- Resistance ranges: 200Ω to 2MΩ
- Diode, transistor and continuity tester



### Regulated Power Supply:

- Selectable output volts: 3 to 4.5; 6 to 7.5; 9 to 12VDC
- Output current: 1.5A (2A peak)
- On/off switch

### Soldering Station:

- 48W ceramic heating element with temp. sensor
- 24V soldering iron
- Temperature range: 150° to 450°C

**Includes:** Test leads, user manual, sponge, spare bit for soldering iron and 9V battery for DMM

Part No.	Mfr. Part No.	1	5
695025	LAB1U	\$159.95	\$139.95

\*Digital Multimeters — Enter Web Code HBK

## 2000-Count Multimeters

- Resolution: 100µV max.
- DC voltage ranges: 200mV – 1000V
- Size: 7.5"W x 9.6"D x 2.5"H
- Weight: 2.6 lbs.



### 203801: 3½-Digit – 2A

- DC/AC current ranges: 20µA – 2A
- AC voltage ranges: 200mV – 700V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2µS – 200nS

### 160830: 3½-Digit – 10A

- DC/AC current ranges: 20µA – 10A
- AC voltage ranges: 200mV – 700V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2µS – 200nS

### 421542: 3½-Digit – 2A

- DC/AC current ranges: 200µA – 2A
- AC voltage ranges: 200mV – 750V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2mS – 200nS
- Frequency ranges: 20Hz – 50kHz

Limited Supply – Great Price!

♦ Refurbished = Backed by Jameco

Part No.	Mfr. Part No.	1	5
160830	8010A♦	\$169.95	\$149.95
203801	8012A♦	169.95	149.95
421542	8050A♦	239.95	224.95

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

## 20MHz/30MHz 2-Channel Analog Oscilloscopes

- 6" rectangular screen with internal graticule and scale
- Vertical deflection: 1mV/div to 1V/div (5MHz, 3dB) x 5 (P/N 685311); (10MHz, 3dB) x 5 (P/N 2112823) gain selected
- Horizontal deflection: 0.1µs/div to 2.0s/div in 1-2-5 sequence, 23 steps
- Max. input voltage: 400V (DC + AC peak)
- Input volt.: 115/230VAC with line voltage selector
- ADD function measures sum of 2 signals (P/N 685311)
- Size: 12.8"W x 15.7"D x 5.2"H • Weight: 16.8 lbs.



SKMI

**Includes:** 2 (X1/X10) test probes, power cord & manual

Part No.	Mfr. Part No.	1	5
685311	SK0200 (20MHz)	\$429.95	\$399.95
2112823	SK0300 (30MHz)	499.95	459.95



EZ DIGITAL

## 100MHz Analog Oscilloscope

- 2-channel dual trace
- Auto focusing according to intensity
- Delay line
- Weight: 22.8 lbs.
- Two-year warranty
- Size: 16.9"L x 12.6"W x 5.5"H

**Includes:** Two (X1/X10) 100MHz probes, power cord, and operations manual

Part No.	Mfr. Part No.	1	5
121179	OS5100	\$999.95	\$965.95

## 150MHz 2-Channel Digital Oscilloscope



NEW  
MARKED IN PINK

## 4000-Count True-RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3½-digit backlit LCD display with bargraph
- Auto/manual ranging
- True RMS AC volts and amps
- Resolution: 100µV maximum
- DC voltage ranges: 400mV – 1000V (0.3% accuracy)
- AC voltage ranges: 4V – 750V
- DC/AC current ranges: 4mA – 10A
- Resistance ranges: 400Ω – 40MΩ
- Capacitance ranges: 4nF – 40µF
- Frequency ranges: 100Hz – 600kHz
- Diode and continuity test • Delay hold mode
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/198-264VAC @ 50-60Hz • Weight: 3.3 lbs.
- Size: 9.0"W x 9.4"D x 3.3"H • Two-year warranty



Probek

**Includes:** Manual, test leads, power adapter, 9V battery, RS-232 cable & software (98/ME/2000/XP compatible)

Part No.	Mfr. Part No.	1	5
230586	B940	\$179.95	\$169.95

## 50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

- Sampling frequency: 1.25kHz–50MHz real-time; 1GHz repetitive
- Input impedance: 1MΩ/30pF
- Parallel port interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V AC/DC
- Power required: 9V to 10V @ 1000mA (recommend P/N 364576, pg 124)



### Oscilloscope:

- Time base: 20ns–100ms per division
- Input sensitivity: 5mV–15V per division with auto step-function

\*Web Code: RCG

• Recording length: 4096 samples per channel

### Spectrum Analyzer:

- Frequency range: 0 to 25MHz

### Transient Recorder:

- Time scale: 20ms/div–2000s/div
- Max. recording time: 9.4 hours/screen

• Max. number of samples: 100/s

**System Requirements:** IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

**Includes:** 2 Test leads, parallel cable and CD-ROM

• Blue Part No. = Limited Quantity Available

Part No.	Mfr. Part No.	1	5
200184	PCS500AU	\$349.95	\$329.95

\*Oscilloscopes Available Online — Enter Web Code RCG

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

JAMECO®



## 50MHz 2-Channel USB PC Oscilloscope

The PCSU1000 digital storage oscilloscope uses the power of your PC to visualize electrical signals. It has a highly sensitive display resolution, down to 0.15mV, combined with a high bandwidth and a sampling frequency of up to 1GHz.



### Oscilloscope:

- Input range: 5mV to 2V/division
- Time base: 20ns to 100ms per division
- Trigger source: CH1, CH2, EXT or free run
- Real time sampling frequency: 1.25kHz to 50MHz

### Spectrum Analyzer:

- Frequency range: 1.2kHz to 25MHz
- FFT resolution: 2048 lines
- FFT input channel: CH1 or CH2

★ Web Code: RCG

### Transient Recorder:

- Timescale: 20ms/Div to 2000s/Div
- Max record time: 9.4 hour/screen
- Min./Max. number of samples: 20/s; 100/s

**System Requirements:** IBM compatible PC, Windows® 98SE or later, SVGA display card, USB port

**Includes:** PC oscilloscope, 2 x 60MHz scope probes, USB cable and CD-ROM

Part No.	Mfr. Part No.	1	5
695017	PCSU1000	\$499.95	\$459.95

## 40MHz Multifunction Oscilloscopes w/ Built-In 5MHz Function Generator

### Oscilloscope:

- 6" rectangle high resolution CRT
- Max signal input volt.: 400V (DC and AC peak)
- Input voltage: 100/120/ 220/240VAC @ 50-60Hz
- Size: 15.7" L x 12.8" W x 5.2" H • Weight: 26 lbs.
- Two-year manufacturer's warranty



2 in 1

1536886



1586200: With built-in 60MHz auto-detect counter

### Function Generator:

- Frequency range: 0.5Hz to 5MHz (6 ranges)
- Output waveforms: sine, triangle, square
- Output impedance: 50Ω
- Output volt: 20Vp-p (no load), 10Vp-p (w/ 50Ω load)
- See [www.Jameco.com](http://www.Jameco.com) for additional specs.

Part No.	Mfr. Part No.	1	5
1536886	SK0404	\$599.95	\$539.95
1586200	SK0409	749.95	699.95

## 3MHz Function Generator with Positive and Negative Pulses

- 6 waveforms: sine, square, triangle, ramp, positive pulse and negative pulse
- Input voltage: 110VAC
- Output impedance: 50Ω ±2%
- Knob selector switches for waveforms and frequency ranges • Size: 10.5" W x 11.2" D x 3.9" H
- Frequency range: 0.5Hz to 3MHz in 6 ranges via rotary switch • Weight: 6.6 lbs.



SKM

Part No.	Mfr. Part No.	1	5
685329	SK3000	\$209.95	\$189.95

★ Function Generators — Enter Web Code DEJ

★ Frequency Counters — Enter Web Code VCG

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## 5MHz Function Generator

- Waveforms: sine, square, triangle and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning
- Size: 10.4" W x 11.7" D x 3.4" H
- Weight: 6.2 lbs. • Two-year warranty

Part No.	Mfr. Part No.	1	5
160469	BK4011A	\$369.95	\$349.95



**BK PRECISION**

## 5MHz Sweep Function Generator with 60MHz Counter

### Function Generator

- Waveforms: triangle, sine, square, ramp, positive pulse, negative pulse
- Frequency range and display: 0.05Hz ~ 5MHz, 5-digit LED display (0.001Hz resolution)
- 8 ranges controlled by rotary switch
- DC offset ±10V (no load), ±5V (50Ω load) continuously adjustable controlled by offset switch



**SKM**

### Frequency Counter:

- 5-digit LED display (0.36" digit height)
- Resolution: 0.001Hz
- Display unit: Hz/kHz (auto) • 20MHz time base
- INT/EXT switch, 0.500Hz to 5000kHz internal with 4 res., 0.2Hz ~ 60MHz external
- Size: 11.8" W x 3.5" H x 10.8" D • Weight 5.5 lbs.
- Includes: power cord and operation manual

Part No.	Mfr. Part No.	1	5
2112831	SK5200	\$299.95	\$279.95



**INSTEK**

## 2MHz & 3MHz Function Generators w/ Frequency Counter

### Function Generator

- Waveforms: sine, triangle, square, TTL and CMOS output
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to >+5V into 50Ω load



**229251**

### Frequency Counter

- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs. • Two-year warranty
- Ranges: 0.2Hz to 2MHz • Size: 9.1" W x 11.0" D x 3.7" H
- Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10nHz to 0.1Hz • Size: 9.9" W x 11.5" D x 3.6" H

**Includes:** Power cord, operations manual and leads

Part No.	Mfr. Part No.	Description	1	5
229251	GFG-8020H	2MHz	\$249.95	\$229.95
229260	GFG-8216A	3MHz	299.95	269.95

## 150MHz 2-Channel Universal Frequency Counter

- 8-digit green LED display (0.56" digit height)
- Adjustable range & gate time
- Freq. range: 0.2Hz ~ 150MHz
- Gate time range 0.01s ~ 10s
- Impedance: 1MΩ, <40pF
- Channel A sensitivity – 25mVRms: 0.2Hz ~ 100MHz, 50mVRms: 100MHz ~ 150MHz; channel B – 25mVRms: 0.2Hz ~ 100MHz
- Count capacity: 0 ~ 99999999 (MHz)
- Input voltage: 100/220 @ 50/60Hz
- Size: 10.0" W x 3.2" H x 10.3" D



**SKM**

Part No.	Mfr. Part No.	1	5
2112840	FC-150U	\$299.95	\$279.95

## 2.4GHz 2-Channel Frequency Counter

- 8-digit green LED display with annunciators
- Adjustable range & gate time
- Frequency ranges: 0.01Hz to 2.4GHz
- Gate time: 100msec to 10sec
- Channel A: DC coupled – 0.01Hz to 100Hz; AC coupled – 100Hz to 50MHz, sensitivity – 80mVRms, 1MΩ impedance
- Channel B: frequency range: 50MHz to 2.4GHz, sensitivity – 50mVRms, 50Ω impedance
- Power supply: 120 to 220VAC
- Size: 10.6" W x 8.5" D x 3.9" H • Weight: 3.5 lbs.

Part No.	Mfr. Part No.	1	5
1955968	DVM13MFC2U	\$159.95	\$149.95



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

155

\* More Probes Available Online — Enter Web Code RAC

150/250MHz Modular Oscilloscope Probes



★ Web Code: RAC

- Hook and pointed probes
- Maximum input volt.: 600V
- Alligator clip ground wire
- Length: 5'
- BNC male connector
- 216047/236777: With IC test ground cover and spring ground contact

Part No.	Product No.	Bandwidth (±3dB)	Impedance (R/C) *
		Attenuation	Attenuation
Part No.		x1	x10
22892	LF101E	\$24.95	\$22.49
216047	HF-9100	29.95	26.95
236777	HP-9250	39.95	35.95

\* With 20pF oscilloscope input

Part No.	Product No.	1	5	25
22892	LF101E	\$24.95	\$22.49	\$19.95
216047	HF-9100	29.95	26.95	23.95
236777	HP-9250	39.95	35.95	31.95

174473	4901-02 (150MHz)	\$59.95	\$53.95
212257	4915A (250MHz)	159.95	144.95

★ More Probes Available Online — Enter Web Code RAC

Test/Tools

# Probes, Testers & Benchtop Power Supplies

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## Pomona 100MHz Probe Set

- Complete accessory kit included
- Compensation range: 10-60pF
- Bandwidth: 15/100MHz (-3dB)
- Attenuation: x1/x10 • 48" cable
- Rise time: 23.33/3.5ns
- Input resistance: 1/10MΩ • Capacitance: 64/10.5pF



Part No.	Mfr. Part No.	1	5
156451	4550B (100MHz)	\$56.95	\$53.95

## PROBE MART® 1000 Volt Probe Kit

- Rating: 1000V 10A
- Gold tips and contacts
- Electronic deluxe probe kit includes leads with shrouded right angle banana plug, probes, sprung hook probes, alligator clips, spade lugs, extender probes, minigator leads, .025" wire wrap leads, pico hooks and pincer hooks



Part No.	Description	1	5
212249	High voltage test probe	\$74.95	\$71.95

## DV3100 Digital Logic Analyzer

From a new aluminum case to advanced triggering, adjustable threshold, more memory and a wider voltage range, the new DV3100 is the best value in a portable logic analyzer.



- 18 channels @ 100MHz (10ns)
- Automatic real time hardware compression (Tri-mode) • Eliminates res. vs. depth tradeoffs
- +0.5 to +2.8V adjust. threshold
- Ground current protection ±12V
- USB 2.0 & 1.1 compatible

**NEW**  
MARKED IN PINK

**Includes:** All cables, clips (quantity 20) and software

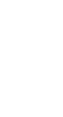
Part No.	Mfr. Part No.	1	5
211576	DV3100	\$499.95	\$469.95



301920



175257



645600



301971



207618



1939626



207706



175249

• Voltage and current adjustable

Part No.	Mfr.	Mfr. Part No.	Voltage (VDC)/Current (A)	Power (W)	Displays (Digits)	Input Voltage (VAC)	Short Circuit Protection	Overload Protection	Size (W" x H" x D")	Weight (lbs.)	Pricing	
											1	5
301920	Mastech	HY1503C	15/3	45	2-Analog	115/230 ±10%	Y	N	3.8 x 6.3 x 9.1	9	\$99.95	\$89.95
175265	Various	DPS150A	15/10	150	2-Analog	110 @ 60Hz	Y	Y	6.2 x 4.0 x 5.7	12	149.95	129.95
175257	Various	SPS250A	15/15	225	2-Analog	110/220 @ 47-63Hz	Y	Y	6.2 x 4.0 x 5.6	3.8	149.95	129.95
681221	Extech	382202	18/3	54	2-Digital LCD (4)	120 @ 60 Hz	Y	Y	9.4 x 6.1 x 4.3	6.6	139.95	129.95
645600	Extech	382200	30/1	30	2-Digital LCD (4)	100/240 @ 47-63Hz	Y	Y	9.4 x 6.1 x 4.3	4.4	129.95	119.95
301971	Lascar	PSU130	30/1	30	2-Digital LCD (4)	100/240 @ 47-63Hz	Y	Y	5.5 x 1.6 x 5.2	1.2	89.95	84.95
301866	Mastech	HY3003D	30/3	90	2-Digital LCD (4)	115/230 ±10%	Y	N	5.4 x 6.2 x 11.5	10	159.95	135.95
207618	Mastech	HY3005C	30/5	150	2-Analog	115/230 ±10%	Y	N	5.4 x 6.2 x 11.5	14	159.95	135.95
301911	Mastech	HY3005D	30/5	150	2-Digital LCD (4)	115/230 ±10%	Y	N	5.4 x 6.2 x 11.5	13	199.95	179.95
2112858	SKMI	LP-3010	30/10	300	1-Digital LED (3)	115 @ 50Hz	Y	Y	9.3 x 5.4 x 13.6	26.5	599.95	549.95
207626	Mastech	HY3010C	30/10	300	2-Analog	115/230 ±10%	Y	N	10.4 x 6.5 x 14.4	31	299.95	269.95
207635	Mastech	HY3010R	30/10	300	2-Digital LED (4)	115/230 ±10%	Y	N	10.4 x 6.5 x 14.4	31	319.95	289.95
207686	Mastech	HY3020R	30/20	600	2-Digital LED (4)	115/230 ±10%	Y	N	10.4 x 6.5 x 14.4	42	499.95	449.95
1939626	Extech	382290	30/30	900	2-Digital LED (4)	110-240 @ 50-60Hz	Y	Y	9.8 x 3.8 x 13.4	13.2	749.95	699.95
207694	Mastech	HY5002R	50/2	100	2-Digital LED (4)	115/230 ±10%	Y	N	5.4 x 6.2 x 11.5	13	149.95	134.95
163723	Various	DPS-3050	50/3	150	2-Analog	110 @ 60Hz	Y	Y	4.8 x 7.5 x 9.0	12.3	129.95	115.95
207706	Mastech	HY5003	50/3	150	2-Digital LED (4)	115/230 ±10%	Y	N	5.4 x 6.2 x 11.5	13	199.95	179.95
207600	Mastech	HY5005	50/5	250	2-Digital LED (4)	115/230 ±10%	Y	N	10.4 x 6.5 x 14.4	17	279.95	249.95
175249	Various	DPS5050	50/5	250	2-Analog	110 @ 50-60Hz	Y	Y	7.7 x 6.7 x 4.9	13.8	179.95	159.95

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## High Voltage Test Probe

- Maximum voltages: DC:40kV, AC: 40kV peak, 28kVrms
- Accuracy: DC:±1.5%, AC:±5%
- 10MΩ meter input impedance required
- Input/output impedance: 1,000MΩ/1.1MΩ
- Probe length: 14" • Cable length: 39"



Part No.	Product No.	Weight	1	5	25
132290	HV-40	0.8 lbs.	\$79.95	\$73.95	\$69.95

## 17MHz Logic Probe

- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Pulse flash time: 500ms
- Audible tones for high & low
- Input impedance: 1MΩ
- Power supply protection: ±20V
- TTL threshold:  
Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC



Part No.	Product No.	1	5	25	
149930	LP3500		\$39.95	\$35.95	\$32.95

## PC Cable-Check® Pro

This powerful universal cable tester troubleshoots and maps 20 types of computer cables for opens, shorts, crosses, and good connections. Tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, USB-A and USB-B, Mini USB, PS/2, RJ-11, RJ-45, BNC female-female cables and Firewire.



• Auto power off, auto & manual scan  
Includes: 9V battery

Part No.	Mfr. Part No.	1	5	25	
652480	1577		\$185.95	\$169.95	\$159.95

**Paladin Tools®**

## 90-Watt Digital DC Power Supply

**JAMECO EXCLUSIVE**

- 30V @ 3A
- Input voltage: 110/220VAC @ 50-60Hz
- Resolution: 1% ±1 digit accuracy
- Constant volt. and current operation
- Size: 5.1" W x 10.1" D x 5.9" H



Part No.	Product No.	1	5	
489184	DRP-303D		\$199.95	\$189.95

\* Web Code: SAX

## Multiple Output Benchtop Power Supplies

\* Web Code: SAX



211693



301962



301947



197991



197982



1939618

- Voltage and current adjustable

Part No.	Mfr.	Mfr. Part No.	Voltage (VDC)/Current (A)	Power (W)	Input Voltage	Displays	Short Circuit Protection	Overload Protection	Size (W" x H" x D")	Weight (lbs.)	Pricing	
											1	5
211722	Mastech	HY3002-2R	0-30/2; 0-30/2	120	115/230 ±10%	2-Digital LED	Y	N	10.4 x 6.5 x 14.4	23	\$219.95	\$199.95
211705	Mastech	HY3002D-2	0-30/2; 0-30/2	120	115/230 ±10%	4-Digital LCD	Y	N	10.4 x 6.5 x 14.4	23	239.95	219.95
211693	Mastech	HY3003D-2R	0-30/3; 0-30/3	180	115/230 ±10%	4-Digital LCD	Y	N	10.4 x 6.5 x 14.4	28	299.95	269.95
211731	Mastech	HY3003-2R	0-30/3; 0-30/3	180	115/230 ±10%	2-Digital LED	Y	N	10.4 x 6.5 x 14.4	28	299.95	269.95
301962	Mastech	HY5003-2	0-50/3; 0-50/3	300	115/230 ±10%	2-Digital LED	Y	N	10.4 x 6.5 x 14.4	26	299.95	269.95
301947	Mastech	HY3005D-2R	0-30/5; 0-30/5	300	115/230 ±10%	4-Digital LCD	Y	N	10.4 x 6.5 x 14.4	26.5	299.95	269.95
211713	Mastech	HY3003-3	0-30/3; 0-30/3; 5/3	300	115/230 ±10%	2-Digital LED	Y	N	10.4 x 6.5 x 14.4	29	299.95	269.95
211684	Mastech	HY3003D-3	0-30/3; 0-30/3; 5/3	195	115/230 ±10%	4-Digital LCD	Y	N	10.4 x 6.5 x 14.4	29	299.95	269.95
301955	Mastech	HY3005D-3R	0-30/5; 0-30/5; 5/3	315	115/230 ±10%	4-Digital LCD	Y	N	10.4 x 6.5 x 14.4	29	379.95	339.95
301938	Mastech	HY3005	0-30/5; 0-30/5; 5/3	315	115/230 ±10%	2-Digital LED	Y	N	10.5 x 6.5 x 14.3	10	199.95	179.95
197991	Extech	382213	0-30/3; 5/0.5; 12/0.5	98.5	110/120 @ 50-60 Hz	2-Digital LCD (3)	Y	Y	6 x 5.6 x 9.5	11	199.95	179.95
197982	Extech	382203	0-30/3; 5/0.5; 12/0.5	98.5	110/120 @ 50-60 Hz	2-Analog	Y	Y	6 x 5.6 x 9.5	11	169.95	159.95
1939618	Extech	382270	0-30/5; 0-30/5; 3-6/3; 8-15/1	334.5	110/120 @ 50-60 Hz*	4-Digital LED (4)	Y	Y	10.2 x 6.3 x 14.5	26.5	449.95	429.95
2112866	SKMI	LP-303-TP	0-30/3; 0-60/3; 0-30/6	180	115 @ 50Hz	4-Digital LED (3)	Y	Y	9.3 x 5.4 x 14.6	21.6	599.95	549.95

\* Selectable

## 13.8VDC Precision Regulated Power Supplies

\* Web Code: YEH



1918745 Cigarette plug



136581 Banana terminal



138668 Banana terminal (rear)

- Heavy duty 5'8" 3-prong power cord
- Illuminated rocker switch
- Short-circuit protected
- Fuse protected
- Output mating terminals: see pg 130 for cigarette plugs & pg 159 for banana terminal plugs

Part No.	Manufacturer	Mfr. Part No.	Power (W)	Output Volts @ Curr.	Input Voltage	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	5	25
1918745	Samlex	SPS-1204UL	46.2	13.8VDC @ 3.5A	120VAC @ 60Hz	Cigarette plug / terminals	5.2 x 4.0 x 2.0	2.0	\$39.95	\$35.95	\$32.95
136581	Samlex	RPS1207 #	96.6	13.8VDC @ 7.0A	115VAC @ 60Hz	Banana terminals	8.7 x 5.7 x 3.6	8.5	69.95	59.95	54.95
138668	Various	38-381R	138.0	13.8VDC @ 10A	115VAC @ 60Hz	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	59.95	53.95	48.95
138676	Various	52-192012R	276.0	13.8VDC @ 20A	115VAC @ 60Hz	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	94.95	84.95

# P/N 136581 includes overheating protection

## 80-Watt Switching Mode DC Power Supply

### 3-in-1 DC Power Supply

**EXTECH**  
INSTRUMENTS



- Tester for ATX power supply outputs to indicate pass or fail
- 24-pin ATX connector on one side of the tester
- 4-pin HDD/ floppy drive connector, and 6-pin/8-pin P4 connector on the other side
- Tests +3.3V, ±5V, ±12V, +5VSB and PG



Part No.	Product No.	Description	Color	1	5
1928450	PST20	LED indicators	Blue .....	\$19.95	\$17.95
2119988	E77CECE38L	LED indicators with on/off switch	Black .....	21.95	19.95
2115514	E77CEBE80L	LCD display readout	Black .....	24.95	22.49

\* Benchtop Power Supplies — Enter Web Code SAX

## JAMECO ValuePro Test Lead Starter Kit

This kit includes our top selling test leads at a reduced price.  
Includes one of each:



Part No. Mfr. Part No. Weight Size 1 5

1939600 382260 4.2 lbs. 13" H x 5" W x 2.1" D \$279.95 \$239.95

## Test Leads and Cables

\* Web Code TLC



Part No.	Mfr.	Product No.	Description	Size (L")	1	10	25
159871	Pomona	2249-C-36R	BNC male to male cable, RG58C/U, 50Ω, 20 AWG, black	36	\$14.95	\$14.49	\$13.95
159880	Pomona	2249-C-60R	BNC male to male cable, RG58C/U, 50Ω, 20 AWG, black	60	18.95	17.95	16.95
2097141	Pomona	2249-E-36R	BNC male to male cable, RG59B/U, 75Ω, 23 AWG, black	36	16.95	15.95	14.95
2097125	Pomona	2249-K-36R	BNC male to male cable, RG174/U, 50Ω, 26 AWG, black	36	22.95	21.95	20.49
176971	Pomona	4532-C-36R	BNC M to Mini alligator clips w/strain relief, RG58C/U, 50Ω, 20AWG, blk	36	18.95	17.95	16.95
11384	BenchPro	GCA26-R	BNC male to Alligator clip, RG58/U, black	23	4.65	3.95	2.95
11464	BenchPro	05-A-078-R	BNC male to Mini-clip test lead, RG174/U, black	39	3.95	3.59	3.29
11422	BenchPro	05-A-081-R	BNC male to Micro-clip test lead, RG174/A/U, black	39	3.75	3.19	2.59
2097150	Pomona	5187-C-36R	BNC male to MiniGrabber test leads, RG58C/U 50Ω, 20 AWG, blk	36	18.95	17.95	16.95
176954	Pomona	5187-K-36R	BNC male to MiniGrabber test leads, RG174/U 50Ω, 26 AWG, blk	36	24.95	23.95	22.95

Test Leads & Cables continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Test Leads, Cables, Plugs, Clips & Posts

3 LEVELS OF SAVINGS  
 NAME BRANDS   HOUSE BRANDS   FACTORY OVERRUN



JAMECO BenchPro

PROBE MASTER

## Test Leads and Cables (Continued)

\*Web Code TLC



2113877

256832

2113869

1945962

212222

174625

168516

155951

77738

Part No.	Manufacturer	Product No.	Description	Size (L")	1	10	25
2113877	Pomona	3957	BNC male to Multi-Stacking banana plugs (2nd End)	1.55	\$13.95	\$13.49	\$12.95
256832	BenchPro	CBB-069-R	BNC female to pigtail, 20 AWG, 2 wire, 1 black, 1 red	7	5.49	4.95	4.49
2097555	BenchPro	CBB-070-R	BNC male to pigtail, 20 AWG, 2 wire, 1 black, 1 red	9	5.49	4.95	4.49
2113869	Pomona	3788	BNC female Minigrabber test clips (2nd end)	2.56	10.49	9.95	9.49
2113885	Pomona	5051	BNC female only to #8 spade lugs (2nd end)	8	8.95	8.49	7.95
1945962	Various	TP-1	Protected probes w/ rt. angle banana screw-on alligator clips, 1 blk, 1 red	40	7.95	6.95	6.25
212222	Probe Master	8043S	Softie test probe leads (w/10 pcs interchangeable tips) 18AWG, 1 blk, 1 red	39	26.95	25.95	24.95
174625	Probe Master	8150	Micro-tip test probe leads rt. angle (w/10 plunger type tips), 1 blk, 1 red	39	36.95	33.95	31.95
168516	BenchPro	GA-5010	Universal test lead kit w/ 12 interchangeable tips, 1 black, 1 red	36	8.95	6.95	5.95
155951	Pomona	5519A-R	Banana plug to rt. angle probe, insulated leads, 18 AWG 1 blk, 1 red	48	13.95	13.25	12.49
77738	BenchPro	GF19-R	Protected banana style multimeter test leads, 1 black, 1 red	40	5.95	5.49	4.95
77746	BenchPro	FC-15B-R	Standard banana style multimeter test probes, 1 black, 1 red	42	7.59	6.95	6.25
10444	BenchPro	GAL01	Alligator clip test leads, 24 AWG (19/36) 10-pc. assorted colors	15	4.95	4.49	3.95
159901	Pomona	B-24-02-R	Stackable banana patch cords, 18 AWG, 1 black, 1 red	24	9.95	8.95	8.29
159919	Pomona	B-36-02-R	Stackable banana patch cords, 18 AWG, 1 black, 1 red	36	10.95	9.95	8.95
77842	BenchPro	KLN-4-25/H-R	Stackable banana patch cords, 18 AWG, 2 ea. (blk,red,blue,white,yellow)	9.8	23.95	20.95	19.95
107423	BenchPro	GCA340-R	Stackable double banana plug to alligator clip test leads, 1 blk, 1 red	36	3.95	3.59	3.19
2113949	Pomona	72905-2	Micro SD Grabber test clip lead, attaches to 08mm/4mm female lead, red	3	5.49	4.95	4.69
159899	Pomona	3782-36-02-R	Mini-clip w/ stackable banana test leads, 20 AWG, 1 black, 1 red	36	11.49	10.95	10.49
21857	BenchPro	05-A-082-R	Mini-clip to stackable banana test leads, black	39	3.95	3.49	2.95
21865	BenchPro	05-A-079-R	Mini-clip to stackable banana test leads, red	39	3.95	3.49	2.95
135299	BenchPro	SF-207A-R	Mini-clip test leads, 26 AWG, 5 sets (blue, black, yellow, red, green)	14	10.95	9.95	8.95
571188	Pomona	3782-60-0	MiniGrabber™ test clip to stacking banana plug	60	5.95	5.49	4.95
156495	Pomona	5523-R	MiniGrabber™ test clip patch cord, 20 AWG 10-pc. assorted colors	24	39.95	37.95	36.95
2113906	Pomona	6341	Test probe set, precision electronic w/ complete set of 5 tips	39.4	35.95	34.95	33.95
2113914	Pomona	5953A	Test probes with retractible needle tips, right-angle for DMM	48	23.49	22.49	21.95
155985	Pomona	2708B-R	9 slot test lead holder, accepts RG213 & RG214 wire sizes (blue)	11	12.95	12.49	11.95
155977	Pomona	4408-R	10 slot test lead holder, accepts RG59 & RG108 wire sizes (black)	11	10.95	10.49	9.95
155969	Pomona	1508-R	14 slot test lead holder, accepts RG58 & RG142 wire sizes (orange)	11	11.95	11.49	10.95



## Test Clips, Plugs and Posts

\*Web Code TLC



71240

77691

2097192

1582170

256779

125197

72195

137526

159863

Part No.	Manufacturer	Product No.	Description	Size (in.)	1	10	100
71240	BenchPro	GIP-003-R	Binding post, screw type, chassis mount 1 black, 1 red	1.0 L x .50 Dia.	\$1.29	\$1.15	\$.99
77691	BenchPro	GIP-001-R	Binding post, screw type, chassis mount 1 black, 1 red	1.8 L x .50 Dia.	1.59	1.45	1.29
2097264	Pomona	4995-0	Binding post, spring loaded, panel mount, black	2.0 L x .50 Dia.	20.95	19.95	18.95
2097272	Pomona	4995-2	Binding post, spring loaded, panel mount, red	2.0 L x .50 Dia.	20.95	19.95	18.95
2097192	Pomona	5165-0	Shorting bar, insulated double banana plug w/ binding post, blk	1.78 L x .48 Dia.	12.95	11.95	10.95
1582188	Keystone	6092-R	Banana jack, chassis mount, 0.182" solder tab, black	.937 L x .433 Dia.	1.39	1.29	1.19
1582170	Keystone	6091-R	Banana jack, chassis mount, 0.182" solder tab, red	.937 L x .433 Dia.	1.39	1.29	1.19
256779	BenchPro	R1-17-BLK-R	Panel mount tip jack; 1/4"-32 thread, black (10 pc. pkg)	.988 L x .29 Dia.	7.95	6.95	5.95
263864	BenchPro	R1-17-RED-R	Panel mount tip jack; 1/4"-32 thread, red (10 pc. pkg)	.988 L x .29 Dia.	7.95	6.95	5.95
125197	BenchPro	GBRR2-R	Screw mount double binding/banana post, black/red	1.6 L x 1.4 W	3.95	3.49	2.95
72195	BenchPro	GBP205-R	Set screw banana plug, 1 black, 1 red	1.6 L x .40 Dia.	1.59	1.45	1.29
137526	BenchPro	HP-2234P-R	Set screw banana plug, 1 black, 1 red	2.3 L x .30 Dia.	2.99	2.49	1.99
159855	Pomona	1325-02-R	Solderless stackable banana plug w/ set screw, 1 black, 1 red	1.55 L x .44 Dia.	3.19	2.95	2.75
571145	Pomona	1325-2-R	Solderless stackable banana plug w/ set screw, red (set of 10)	1.55 L x .17 Dia.	13.95	13.49	12.95
159863	Pomona	1825-02-R	Solderless stackable banana plug w/ safety collar, 1 black, 1 red	4.59 L x .39 Dia.	3.19	2.95	2.75
125210	BenchPro	GBRR4-BLK-R	Solderless stackable double banana plug, w/ wire guide, black	1.59 L x 1.20 W	2.39	2.19	1.95
125218	BenchPro	GBRR4-RED-R	Solderless stackable double banana plug, w/ wire guide, red	1.59 L x 1.20 W	2.39	2.19	1.95
571268	Pomona	MDP-2	Solderless stackable double banana plug, w/ wire guide, red	1.55 L x 1.13 W	2.49	2.29	2.09
159927	Pomona	MDP-02-R	Solderless stackable dbl banana plug, w/ wire guide, red (set of 2)	1.55 L x 1.18 W	5.49	5.29	4.95
11440	BenchPro	03-701A-R	BNC female to standard double banana plug, black	2.03 L x 1.7 W	4.95	4.49	3.95



Test Clips, Plugs & Posts  
continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Test Clips, Plugs and Posts (Continued)

\* Order in multiples of 10

Part No.	Manufacturer	Product No.	Description	Size (in.)	1	10	100
2113893	Pomona	3296R	BNC male to mini stackable binding posts	1.93 L x .88 W	\$23.95	\$22.95	\$21.95
125225	BenchPro	GB2BR2	BNC male to standard double banana plug, black	2.21 L x 1.8 W	5.95	5.39	4.95
125233	BenchPro	GB1BN2	BNC female to double binding/banana posts, black	2.14 L x 1.8 W	4.95	4.45	3.95
99355	BenchPro	GB2BN2R	BNC male to double binding/banana posts, black	2.35 L x 1.7 W	4.95	4.45	3.95
2113519	Fluke	AC220	Alligator clip, suregrip, opens to 13mm, 1 black, 1 red	5.5 L x .25 Dia.	29.95	28.95	27.95
2113527	Fluke	AC283	Pincer clips, suregrip, opens to 5mm, 1 black, 1 red	8.0 L x .25 Dia.	29.95	28.95	27.95
2113922	Pomona	5912B	Maxigrabber test clip set with jaws, 1 red	0.5 D	24.49	23.49	22.49
114810	BenchPro	G2P004-R	Micro test clip, 1 red, 1 black	1.7 L	1.59	1.45	1.29
153163	BenchPro	SF-207-BL-R	Micro test clip, blue	1.7 L	.95	.85	.75
114818	BenchPro	G2P002-R	Mini test clip, 1 black, 1 red	3.5 L	2.25	1.95	1.75
684502	Pomona	6311R	SMD micro grabber test clip, 8mm tip, 1 green, 1 yellow	1.5 L x .02 W	84.95	82.95	79.95
684545	Pomona	6313R	SMD micro grabber test clip, 2mm tip, 1 green, 1 yellow	1.5 L x .02 W	69.95	67.95	65.95
248921	BenchPro	SF101CP-R	Mini alligator clip, solder/crimp (set of 2)	1.2 L x .30 W	.39	.36	.33
248939	BenchPro	SF-103CP-R	Mini alligator clip, solder/crimp (set of 2)	1.6 L x 0.3 Dia.	.35	.29	.25
256525	BenchPro	SF105B-R	Alligator clip, barrel/screw, 2" (set of 2)	2.0 L x .20 Dia.	.55	.49	.45
70991	BenchPro	GIP006-R	Insulated alligator clips, 1 black, 1 red	2.3 L x .50 W	.55	.49	.39
248962	BenchPro	SF-103SV-BK	Black insulator sleeve for PNs 248939 & 256525 (set of 2)	2.1 L x .20 Dia.	.55	.49	.45
248972	Various	SF103SV-RD-R	Red insulator sleeve for PNs 248939 & 256525 (set of 2)	2.1 L x .20 Dia.	.35	.29	.25
1581986	Keystone	5001R	Looped color coded test point, mini, black	.3 L x .04 Dia.	*	.19	.15
1581994	Keystone	5002R	Looped color coded test point, mini, white	.3 L x .04 Dia.	*	.19	.15
1582065	Keystone	5012R	Looped color coded test point, white	.45 L x .063 Dia.	.29	.25	.19



2113893



684545



248921



248939



256525



70991



248972



1581986

• Blue Part No. = Limited Quantity Available

JAMECO  
BenchPro

### 12-Piece Lightweight Computer-Service Tool Kit



- Kit includes:
  - 2 nut drivers: 3/16", 1/4"
  - 3-claw parts holder
  - 1-pc hex key wrench
  - IC extractor
  - 4-pc screwdriver set
  - Tweezers
  - Clear components tube holder
- Size: 85" L x 6.0"W x 1.5"H
- Weight: 1.1 lbs.

Part No.	Description	1	5	25
167206	12-piece tool kit .....	\$13.95	\$12.49	\$10.95

### 26-Piece SAE Hobby Tool Set



- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozis bits
- 3/16" & 1/4" slotted bits
- Hex to 1/4" driver adapter
- Compact carrying case
- T-10, T-15, and T-20 Torx bits
- 3" extension bar for 1/4" drive
- Tweezers
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0" L x 9.0"W x 2.0"H
- Weight: 1.5 lbs.

Part No.	Description	1	5	25
170069	26-pc. SAE tool set .....	\$17.95	\$15.95	\$12.95

JAMECO  
BenchPro

### 40-Piece Electronic Tech Tool Kit



- Kit includes:
  - Wire cutters/ stripper
  - Adapter bit for sockets
  - Pocket clip screwdriver
  - 10-pc screwdriver set
  - T10-T25 reversible
  - Torx screwdriver bits
  - Potentiometer alignment tools
  - 3/16"-1/2" S.A.E. nut driver sockets
  - 6mm-12mm metric nut driver sockets
  - Slotted and Phillips screwdriver bits
  - Extra long 3-claw parts holder
  - IC inserter with pin straightener
  - IC extractor
- Size: 9.5" L x 6.8"W x 1.4"H
- Weight: 1.7 lbs.

Part No.	Description	1	5	25
119183	40-piece tool kit .....	\$21.95	\$19.95	\$17.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



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3 LEVELS OF SAVINGS

NAME BRANDS

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FACTORY OVERRUN

JAMECO  
BenchPro

### 51-Piece Tech Tool Kit



- Kit includes:
  - Storage box
  - 4 pliers
  - Tweezers
  - Scissors
  - 7-piece hex key set
  - PVC insulated tape
  - Multimeter
  - Brush
  - 10-piece screwdriver set
  - Utility knife (3 blades)
  - 3-piece soldering aid kit
  - Desoldering pump
  - 6-piece electronic screwdriver set
  - Soldering iron with stand and sponge
  - Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5" L x 17.5"W x 3.5"H
- Weight: 10.4 lbs.

Part No.	Description	1	5
26681	51-piece tool kit .....	\$99.95	\$89.95

\*For Tool Kits — Enter Web Code CAA

JAMECO  
BenchPro

### 69-Piece Tech Service Tool Kit

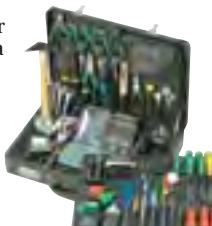


- Kit includes:
  - Storage box
  - 7 pliers
  - Tweezers
  - Spring hook
  - 3-piece soldering aid kit
  - Desoldering pump
  - 3-piece alignment tool set
  - Diagonal cutter
  - Soldering iron
  - Forceps
  - 9-piece screwdriver set
  - Wire stripper
  - 5-piece file set
  - Flashlight
  - 3-prong holder
  - PVC insulated tape
  - Heat sink
  - Measuring tape
  - 6-piece electronic screwdriver set
  - 40-piece socket & screwdriver set
  - 10-piece electronic wrench set
  - IC extractor
- Size: 18.5" L x 13.8"W x 6.7"H
- Weight: 22.8 lbs.

Part No.	Description	1	5
149024	69-piece tool kit .....	\$299.95	\$269.95

JAMECO  
BenchPro

### 52-Piece Master Electronics Tool Kit



Simply every tool needed for field repair or installation. All in a handsome lockable case, with room for spare parts or special equipment.

- Kit includes:
  - 7 pliers
  - Storage box
  - Wrench
  - 3-piece soldering aid kit
  - Soldering iron with stand and sponge
  - 10-piece screwdriver set
  - Brush
  - 6-piece screwdriver set
  - Desolder pump
  - Testing screwdriver
  - IC extractor
  - 7-piece hex set
  - 6-piece wrench set
  - PVC insulated tape
  - Solder core
  - Heat sink
  - Measuring tape
  - Drill
  - Desoldering wick
  - Brush
  - Crimping tool
  - Oil can
  - 5-piece file set
  - Alignment tool
  - Flashlight
  - 3-prong holder
  - Hammer
  - Scissors
  - Part tube
  - Utility knife (3 blades)
  - Tweezers
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0" W x 13.0" D x 4.0" H
- Weight: 16.0 lbs.

Part No.	Description	1	5
218245	52-piece electronic tool kit ....	\$134.95	\$119.95

### Aluminum Tool Case

Made of lightweight aluminum, this tool case is designed to take rough field use.

• Size: 19.0" L x 14.0" W x 6.0"

**Includes:** Tool pallet, egg carton foam lid and 2.5" thick pre-cut foam bottom

Part No.	Description	1	5
261877	Tool/equipment case R .....	\$44.95	\$39.95



# Tool Kits, Wrenches & Cable Strippers

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO  
BenchPro

## 100-Piece Professional Electronics Tool Kit

- Kit includes:
- Soldering iron
- 12 screwdrivers
- 7-piece hex key set
- Extractor
- 4 Pliers
- Adjustable wrench
- Crimper/Stripper
- 6-piece screwdriver set
- 3-piece soldering aid kit
- Desoldering pump
- Multimeter
- Tweezers
- 5-piece file set
- 10-piece wrench set
- Voltage tester
- 2 bottles cleaning liquid
- Blade cutters
- Cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0" L x 14.0" W x 6.0" H • Weight: 15.5 lbs.



- Vise
- Flashlight
- Brush
- Soldering stand
- Solder pen
- Cutters
- Storage box
- Tape
- Wrist strap
- Vacuum cleaner
- Scissors

Part No. Description 1 5  
242851 100-piece tool kit ..... \$199.95 \$159.95

## R<sup>2</sup> RapidRench Adjustable Ratcheting Socket Wrench



- Fits hundreds of SAE and metric fasteners
- Tighten or loosen with a flip of a switch
- Dial adjusts jaws to the exact size of the fastener
- Jaw capacity: 1/4" to 7/8" (6.35mm to 22.2mm)
- Rubberized comfort grip for extra control

Part No. Mfr. Part No. 1 5  
1943131 FR28SWMP ..... \$29.95 \$26.95

\*Wrenches — Enter Web Code WEL

## RapidSlide Adjustable Wrench



- Slide/control button on handle for fast, easy and accurate jaw adjustment
- SAE/metric adjustment markings on head
- 1" maximum jaw opening allows each tool to work with more fastener sizes

Part No. Mfr. Part No. 1 5  
1943123 AC8NKWMP ..... \$19.95 \$17.95

## (H) Rotary Coax Cable Strippers

### 2 and 3 Blade

- 159119 (3 Blade):  
2 settings RG58/59/62  
• For cable sizes 4-10mm  
• Size: 4.2" L x 1.3" W  
• Color: black



- 159185 (2 Blades):  
4 settings RG58/59/62/174  
• For cable sizes 4-12mm  
• Size: 3.9" L x 0.7" W • Color: gray



**Includes:** Hex key wrench for adjusting blade

Part No. Mfr. Part No. 1 5 25  
159119 HT312B (3 blade)R ..... \$9.95 \$9.45 \$8.95  
159185 HT332D (2 blade) ..... 12.95 11.95 10.95

**For Electronic Starter Kit see page 153**

## Cabling Technician's Tool Belt Kit

### Kit Includes:

- 66/110 blade punch down tool
- Probe pick and spudger
- Cable stripper
- Electrician's scissors
- Splicer's knife
- Mini screwdriver
- High quality nylon belt pouch

Part No.	Mfr. Part No.	1	5	25
2112250	TTK-5200R	\$49.95	\$44.95	\$39.95



## Automatic Wire Strippers

- Spring loaded handle
- Size: 7.0" L x 2.5" W
- Weight: 0.8 oz.
- Provide a clean strip without damaging conductor

2112284 175098

**Includes:** Wire stopper for desired strip length

Part No.	Mfr.	Description	1	5	25
2112284	BenchPro	10-24 AWG R	\$8.95	\$7.95	\$6.95
175098	Various	8-22 AWG R	16.95	15.49	13.95

## Flat Cable Cutter

- Spring loaded handle
- Blade lock for safe storage
- Provides clean cut
- Size: 6.5" L x 2.0" W
- Weight: 5.6 oz.

Part No.	Description	1	5	25
2112241	Flat cable cutter R	\$5.95	\$5.49	\$4.95



## Heavy Duty Scissors

- Spring loaded handle
- Blade lock for safe storage
- Ergonomic handle
- Stainless steel tongs
- Suitable for fiber optic cable

Part No.	Description	1	5	25
2112313	Heavy duty scissors R	\$5.95	\$5.49	\$4.95



## UTP/STP Wire Stripper

- Quickly strips insulation without damaging wire
- Strips shielded and unshielded
- Strip 24 to 3 AWG (.5 - 6.2mm)
- Twisted pair cable
- Size: 3.5" L x 1.25" W

Part No.	Description	1	5	25
2112292	UTP/STP stripper R	\$2.95	\$2.49	\$1.95



## Hand Tools for Mini-Fit™ Jr.

- 304928 molex® 304936

304928: Accepts wire range from 14-24 AWG

Part No.	Mfr. Part No.	Description	1	5
304928	63811-1000	Crimp tool .....	\$49.95	\$44.95
304936	11-03-0044	Extraction tool .....	19.95	18.95

**For all Your Wire and Cable needs**  
**see pages 58-61**

## 5" Wire Cutter/Strippers

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0" L x 3.0" W
- One-year warranty

78992: 10-30 AWG  
(screw adjustable)  
215889: 10-24 AWG (dial  
to adjust for wire gauge)



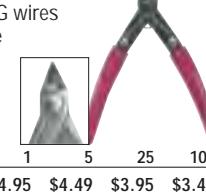
78992 215889

Part No.	Product No.	1	5	25	100
78992	HT108R	\$4.49	\$3.95	\$3.49	\$2.95
215889	JE-2022C R	3.95	3.69	3.29	2.95

\*Cutters/Strippers — Enter Web Code BAK

## (H) 5" Wire Cutter/Stripper

- Strips and cuts 20-24 AWG wires
- Spring loaded for easy use
- Cutter angled at 45° for use in tight places
- Insulated grips
- Size: 5.0" L x 3.0" W



Part No.	Mfr. Part No.	1	5	25	100
159274	HT1091R	\$4.95	\$4.49	\$3.95	\$3.49

## 6" Wire Cutter/Strippers

- Plier nose
- Wire size markings, in AWG and mm
- Size: 6.0" L x 2.0" W

161226: Premium

12-20 AWG stranded;  
10-18 AWG solid



161234: Premium  
16-26 AWG stranded; 14-24 AWG solid

161218: Standard  
16-26 AWG stranded; 14-24 AWG solid  
Color: red

Part No.	Mfr. Part No.	Description	1	5
161226	ID45-215R	Cushioned grips .....	\$15.95	\$14.95
161234	ID45-216R	Cushioned grips .....	15.95	14.95
161218	ID45-121R	Non-cushioned grips	14.49	12.95

## (H) 6.6" Wire Stripper

- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6" L x 2.0" W



Part No.	Mfr. Part No.	1	5	25
159291	HT5023R	\$9.95	\$8.95	\$7.95

\*Wire Strippers — Enter Web Code HAY

## (H) 7-in-1 Wire-Handling Tools

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Solderless crimping tool
- Scale: mm and inch
- Size: 6.6" L x 3.0" W



Part No.	Mfr. Part No.	Description	1	5	25
18797	HT1041R	10-18AWG	\$4.95	\$4.49	\$3.95
127862	HT1042R	16-26AWG	5.95	5.49	4.95
127871	HT1043R	22-30AWG	5.95	5.49	4.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## (H) Metal Modular Connector Crimping Tool

**Crimps 6P and 8P Plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)**

- Cable stripper/wire cutter
- Size: 8.0" L
- Weight: 1.8lbs.



Part No.	Description	1	5	25
114527	RJ11/RJ45	\$22.95	\$19.95	\$17.95

## (H) Ratcheted Modular Connector Crimping Tool

**Crimps RJ45 (8P8C) and RJ11/12 (6P6C)**

- Insulated grip
- Ratcheted type
- Metal • 7.5" L
- Weight: 0.7 lbs.



Part No.	Description	1	5	25
159312	RJ45/11/12	\$22.95	\$19.95	\$17.95

## Modular Cut/Crimp/Strip Tools

**For RJ11 (6P) and RJ45 (8P) Modular Plugs**

- Repeatable crimp action for consistent high-quality connections

**Includes:** Cut and strip blade

174684	• Size: 8.0" L x 2.0" W	• Weight: 0.8 lbs.
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174676

174676	• Size: 8.5" L x 2.2" W	• Weight: 1.2 lbs.
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161091

161091	• Size: 6.0" L x 2.0" W	• Weight: 0.8 lbs.
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Part No.	Mfr.	Product No.	1	5
174684	Various	TTK071	\$21.95	\$19.95
174676	Various	TTK070	23.95	21.95
161091	Ideal	ID30-496	44.95	42.95

## Half-Round Long Nose Pliers

- Drop forged steel
- Heat treated
- Spring return action • Vinyl grips
- Length: 4.5" • Knurled jaws



Part No.	Description	1	5	25
177608	Half-round pliers	\$4.95	\$4.49	\$3.95

## Xcelite®

## General Purpose Pliers and Cutters

**Needle Nose, Diagonal Pliers and Cutters**

- Cushion grips • General purpose use • Positive gripping of wire & subminiature components
- Narrow and fine tips provide increased clearance and allows use in restricted areas



### Needle Nose Pliers

Part No.	Mfr. Part No.	Description	1	5
217891	L4	4" mini needle nose	\$17.95	\$16.49
217998	LNS4G	5" thin long nose	18.95	17.49
146721	NN7776V	5" long nose flat	19.95	18.95

### Shearcutter Pliers Set

Part No.	Mfr. Part No.	Description	1	5
152055	S2K	5.6" plier/5.2" cutter	\$16.95	\$15.95

\*Xcelite Pliers & Cutters — Enter Web Code XPC

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

## Hex Crimp Tools

**Use with RG-58 and RG-59 Connectors with up to a 3/8" Ferrule**

- Weight: 1.5 lbs.
- 1.7mm standard crimp for crimping center conductor on BNC and TNC connectors; up to 3/8" ferrule
- Ferrules up to 1/2"



Part No.	Description	1	5
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261745	Hex crimp tool (3/8")	\$17.95	\$15.95
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261737	Hex crimp tool (1/2")	17.95	15.95
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## Ratcheted BNC Crimping Tool

**Crimps RG58, RG59, RG62, RG174 and Fiber Optic**

- Hex sizes: 0.043", 0.068", 0.100", 0.137", 0.213", 0.255" • All steel construction
- Size: 8.5" L x 2.5" W • Weight: 1.1 lbs.



Part No.	Mfr. Part No.	1	5	25
114535	HT-336G	\$22.95	\$19.95	\$17.95

## Non-Insulated Terminal D-Sub Crimping Tool

**14-26 AWG**

- With cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3" L x 1.5" W



Part No.	Mfr. Part No.	1	5	25
99443	HT202A	\$8.95	\$7.95	\$6.95

## D-Sub Crimping Tool

**20-28 AWG**

- Crimps D-sub pins and sockets
- For use w/ P/Ns 43377, 43369 pg 69 and 100766, pg 81
- Size: 7.0" L x 4.0" W • Weight: 9 oz.



Part No.	Mfr. Part No.	1	5	25
159266	HT213A	\$10.95	\$9.95	\$8.95

## Precision 5-Piece Stainless Steel Pliers Set



- Spring return • Insulated handles

**Includes:** One 3.5" L micro cutting nippers and one each 4" L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	5	25
73121	5-piece set	0.6	\$17.95	\$15.95	\$13.95

## Cutting Pliers

- Side and flush cutting

**179902:** • Forged steel

• Cushion grip

**261789/261810:**

- Carbon steel • Vinyl grip



Part No.	Description	1	10	50
179902	4" leaf spring	\$3.95	\$3.59	\$3.29
261789	5" leaf spring	4.95	4.49	3.95
261810	5" spring return	4.95	4.49	3.95

## 5.3" Flat and Half-Round Long Nose Pliers

- Stainless steel • Spring return

• Durable rubber handles

• 5.3" length w/ 1.4" plier nose



**35474/35491:** Knurled jaws; **195531:** Smooth jaws

Part No.	Description	1	10	50	250
35474	Flat long nose	\$4.95	\$4.49	\$3.95	\$3.49
195531	Flat long nose	4.95	4.49	3.95	3.49
35491	Half round	4.95	4.49	3.95	3.49

# Pliers, Cutters, Drill Bits, Mini-Drill & Stand

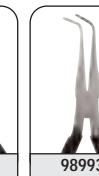
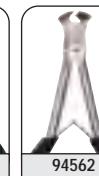
3 LEVELS OF SAVINGS  
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## EXIMCORP

## Pliers and Cutters

### Diagonal, Needle Nose, Nipper, Square, Bent Nose, Sportsmen & Electrician Pliers

- General purpose for picking-up, cutting and wire forming
- Forged steel • Heat treated
- Insulated grips • Blister packaged



### Diagonal Flush Cutters

Part No.	Description	1	5	25
34622	4.5" spring loaded	\$4.95	\$4.49	\$3.95
34607	5" spring loaded	4.95	4.49	3.95
34658*	5.25" heavy duty	5.49	4.95	4.49

### Needle Oval Nose Pliers with Serrated Jaws

Part No.	Description	1	5	25
42104*	5.25" standard	\$5.95	\$5.49	\$4.95

### Needle Oval Nose Cutters with Serrated Jaws

Part No.	Description	1	5	25
34691	4.75" spring loaded	\$4.95	\$4.49	\$3.95
34712*	5.25" spring loaded	5.49	4.95	4.49

### Needle Oval Long Nose Pliers w/ Serrated Jaws

Part No.	Description	1	5	25
34674	7" spring loaded	\$6.95	\$6.25	\$5.59

### Bent Oval Nose Pliers with Serrated Jaws

Part No.	Description	1	5	25
34796	5" standard bend	\$4.95	\$4.49	\$3.95
34826	6" slim spring loaded	4.95	4.49	3.95
34851*	7" standard bend	4.95	4.49	3.95

\*EXIMCORP Pliers & Cutters — Enter Web Code EXP

JAMECO BenchPro

## Mini-Drill and Stand

This Mini-Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



Part No.	Description	Wt. (lbs.)	1	5	25
26702	GTT-103A drill	0.8	\$34.95	\$31.95	\$27.95
26711	GTT-104 stand	1.8	25.95	23.95	21.95

## PC Board Drill Bits

- Shaft diameter: .125"
- Use for drilling holes in glass PC boards

Part No.	Size	Dia.	1	10	100
1919537	1/8	.125"	\$75	\$59	\$45
1919588	31	.120"	.75	.59	.45
1919300	32	.116"	.75	.59	.45
1919609	33	.113"	.75	.59	.45
1919553	35	.110"	.75	.59	.45
1919570	38	.102"	.75	.59	.45
1919502	45	.082"	.75	.59	.45
1919596	46	.081"	.75	.59	.45
1919561	48	.076"	.75	.59	.45
16580	59	.040"	1.75	1.49	.99
16619	75	.021"	1.75	1.49	.99

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Pliers and Cutters

### Diagonal, Needle Nose, Nipper, Square, Bent Nose, Sportsmen & Electrician Pliers

- General purpose for picking-up, cutting and wire forming
- Forged steel • Heat treated
- Insulated grips • Blister packaged

## Diagonal Wire Cutters

- Jaws are designed for flush cutting
- Cuts component wire up to 1.2mm thick
- 0.5" cutting blade

35482: 4.3" Cutter



## Ball-End, Hex Key and Screwdriver Sets

**Bondhus/Felo Products:** Inferior tools cost money when something goes wrong. The cost of removing a stripped or broken screw head from a tight location, or replacing a damaged tool exceeds the cost of purchasing a superior tool in the first place.

- Material: Protanium high torque steel
- Ergonomically designed anti roll handle
- Bondhus: Made in USA; Felo: Made in Germany
- Ball-end inserts quickly into screw head up to 250
- Delivers perfect balance between tip strength and working angle
- Life time warranty

\* Web Code: CAQ

Part No.	Mfr.	Description	1	10
34041	BenchPro	6-pc. precision screwdriver set (slotted - 3/64", 1/16", 5/64", 5/32", 1/8", 9/64")	\$2.95	\$2.59
34059	BenchPro	6-pc. precision screwdriver set (Phillips #0 - 1/16", 5/64", 3/32", #1 - 1/8", 9/64")	2.95	2.59
2096229	Felo	6-pc. screwdriver set (slotted - 9/64"; 5/32"; 7/32"; 1/4"; Phillips - #1; #2)	37.95	35.95
99451	BenchPro	6-pc. long neck screwdriver set (slotted - (Dia. x L) 3/32" x 6 5/8", 1/8" x 7 5/8", 5/32" x 9 5/8", Phillips - #00 x 6 5/8", #0 x 7 5/8", #1 x 9 5/8")	8.95	7.95
226106	BenchPro	6-pc. precision 50 mm torx screwdriver set (Torx - T5, T6, torx hex - T7, T8, T9, T10)	13.95	11.95
2096350	Bondhus	8-pc. ball-end screwdriver set (.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32")	21.95	19.95
2096499	Bondhus	16-pc. folding hex key set (5/64", 1/4"; 2mm to 8mm)	13.95	12.49
2096173	Bondhus	12-pc. ball-end hex key set (.05"; 1/16"; 5/64"; 3/32"; 7/64"; 1/8"; 9/64"; 5/32"; 3/16"; 7/32"; 1/4"; 5/16")	12.95	11.95
261999	BenchPro	7-pc. 1000V insulated magnetic screwdriver set (slotted - 2.5mm)	15.95	14.49
2096456	Felo	7-pc. 1000V insulated screwdriver set (slotted - 3/32"; 1/8"; 9/64"; 5/32"; 7/32"; Phillips - #1; #2)	32.95	29.95
99565	BenchPro	6-pc. screwdriver & plier set (slotted - (Dia. x L) 0.09" x 7 5/8", 0312 x 9 1/2", Phillips - #2 0.09" x 7 5/8", #0 0.12" x 9 1/2", pliers - micro nipper cutter, micro flat nose pliers)	12.95	11.95
261842	BenchPro	7-pc. SAE nut driver set w/ colored handles (sizes: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2")	6.95	5.95
226094	BenchPro	11-pc. magnetic AWL prec. screwdriver set (slotted - .9, 1.2, 1.4, 1.8, 2.4, 3 mm, Phillips - #00, #0, #1)	3.95	2.95
2119005	BenchPro	8-pc. ratcheting screwdriver bit set (3-slotted, 3 philips, 1 square)	7.95	6.95
2096165	Felo	12-pc. screwdriver bit set w/ screwdriver (slotted - 1/8"; 5/32"; 7/32"; 9/32"); POZI - #1; #2; Phillips - #0; #1; #2; Torx - #15; #20)	24.95	22.95



## Automatic Center-Punch Tool

### Adjustable

- Precision instrument
- Alloy steel point
- Knurled steel body
- Size: 5.0" L x 0.5" Dia.

Part No.	Description	1	10
160282	Center Punch Tool	\$5.95	\$5.49

## 30 AWG Wire Wrap/Strip Tools

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation while all loops on a regular tool have bare wires.



- Knurled handle for easy grip
- 5" long

Part No.	Description	1	5
242801	Tool (regular)	\$19.95	\$18.95
242798	Tool (modified)	22.95	21.95
242827	Replacement tip (242801)	7.95	7.29
242819	Replacement tip (242798)	7.95	7.29
242835	Replace stripper assembly	4.95	4.49

## Deluxe Precision Knife Set

- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3" L x 2.8"W x 1.4"H



Includes: 13 types of blades

Part No.	Description	1	10	100
72768	13 blade knife set	\$8.95	\$7.95	\$6.95

## 5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions



Part No.	Cross Ref. No.	Description	1	10	100
115107	HEMO1	Straight	\$3.95	\$2.95	\$2.49
115115	HEMO2	Curved	3.95	2.95	2.49

## JDV Strip-Wrap-Unwrap Tools

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 58 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections
- 4.5" long

Part No.	Product No.	1	5
34585	HSM30 (Modified)	\$49.95	\$44.95
236785	HSR30 (Regular)	29.95	25.95

## 1/4-Watt & 1/2-Watt Resistor & Capacitor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in 0.05" increments
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"

Part No.	Description	Size (L" x W")	1	10
106884	1/4W & 1/2W	5.4 x 1.5	\$4.95	\$4.49

## IC Pin Straightener

Straighten bent pins safely and easily w/ Jameco's IC pin straightener.

- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Materials: black plastic
- Size: 3.3" L x 1.5" W x 0.4" H

Includes: Ground terminal

Part No.	Description	1	10	100
99363	IC straightener	\$7.95	\$6.95	\$5.95

## 24" Joubert Bungee Cord

- Braided jacket cover
- 2.75" steel hook height
- 0.81" steel hook opening
- 0.16" thick PVC coated steel hook
- Blue cord with black coated hook
- Stretches easily to 48"

Part No.	Product No.	1	10	100
2081668	JBC24	\$7.75	\$6.69	\$5.59

\*Calipers — Enter Web Code PAQ

## H Nibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required
- Size: 7.8" L

Part No.	Mfr. P/N	Description	1	10
18810	HT204	Nibbling Tool	\$7.95	\$6.95
29331	HT204B	Replace. bit	3.95	3.55

## 116126 Metal Dial Calipers

### Choose Metric or Inches

- Measures outside, inside & depth
- Accurate measurements every time
- Easy-to-read dial gauge
- Materials: metal
- Color: silver
- Length: 6" (150mm)

Includes: Fitted plastic storage case

Part No.	Description (min. reading)	1	5	25
116134	Metric (.02 mm)	\$25.95	\$23.95	\$21.95
116126	Inches (.001 inch)	25.95	23.95	21.95
684449	Metric/Inches	27.95	25.95	23.95

## Digital Display Caliper

### Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- One-year warranty
- Calipers measure to 6 inches/150mm

Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783, pg 149)

Part No.	Description	1	5
127482	Digital Display Caliper	\$39.95	\$36.95

## Precision Caliper (Micrometer)

Part No.	Description	1	5
2118969	Micrometer	\$19.95	\$17.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

# Tweezers, Magnifying Lamps & Anti-Static Products

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## T-Handle Reamer Tool

*Excellent for aluminum chassis work*

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long



Part No.	Description	1	10
151750	T-handle reamer	\$7.95	\$6.95

## 4-Piece Steel Tweezer Set



- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	100
10735	4-piece tweezer set	\$5.95	\$5.49	\$4.95

\* Tweezer Sets — Enter Web Code FAA

## Tweezers

- 252929: Straight round tapered, fine-point tip, stainless steel
- 253092: Curved fine-point tip
- 252938: Self-closing reverse-action tweezers; medium point tip; stainless steel
- 253113: Fine-point tip, insulated, anti-static
- 252912: Straight fine-point tip

Part No.	Length	Photo	Price	10	100
252929	4.75"	1	\$2.95	\$2.49	\$1.95
253092	4.6"	2	2.95	2.49	1.95
252938	4.30"	2	2.95	2.49	1.95
253113	4.75"	3	2.95	2.49	1.95
252912	4.75"	4	2.95	2.49	1.95

## 4-Pc. Conductive SMD Tweezer Set



- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long

Part No.	Description	1	10
172638	4-piece tweezer set	\$9.95	\$8.95

## Vacuum Tweezers

- Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.

- Size: 2.9" L x 0.6" W
  - One-year warranty
- Includes: 5 pads sizes 0.14" to 0.4"; 5 straight tips and 2 pieces 45° angle tips

Part No.	Description	1	5
88268	Vacuum pick & place kit	\$39.95	\$36.95

## PLCC & DIP IC Extractors

- \* Web Code: MAB
- Size: 4.0" L x 2.0" W



Part No.	Mfr. Part No.	Description	1	10	100
16766	HT103B	PLCC	\$3.95	\$3.49	\$2.95
16838	HT103A	DIP	1.65	1.49	1.25

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

*Details on page 197*

## Anti-Static Heel Strap



- Discharges static without restricting your mobility
- Ground strap: 15.5'L

Part No.	Description	1	10	100
100328	Heel strap	\$5.95	\$5.49	\$4.95

## Anti-Static Wrist Strap



- Comfortable, adjustable black Velcro wrist strap
  - The coiled grounding cord has banana plug and alligator clips
  - Extended cord: 9' long
- Includes: 1MΩ resistor for added safety

Part No.	Description	1	10	100
34552	Wrist strap	\$6.95	\$6.49	\$5.95

## Anti-Static Work Mats

Make your work environment safe from static discharge!

These mats are made of attractive semi-conductive vinyl that provide adequate discharging, yet will not short leads or pins.



Part No.	Dimensions	Wt. (lbs.)	1	10	100
10576	11.3" x 22'	0.7	\$8.95	\$7.95	\$6.95
10584	19.5" x 23.5'	1.1	13.95	12.49	10.95
236541	23.5" x 27.5'	1.4	25.95	22.95	19.95

## \*Anti-Static — Enter Web Code XAA

## Field Service Static Kit

This mat folds easily to fit into a field service bag.

- 4 pocket for ESD safe storage
- 10' ground strap and 6' wrist strap share on one ground point
- Size: 2' x 3'

Part No.	Mfr. Part No.	1	5	25
2113720	8PK-ASOT-1	\$17.95	\$16.49	\$14.95

## Conductive Anti-Static Bags and Foam

### Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.



13864: 24.0" L x 12.0" W x 0.25" H \* Order in multiples of 10

Part No.	Description	1	10	100
249519	4" x 6" anti-static bags	* \$1.15	\$1.10	
249527	5" x 7" anti-static bags	* .19	.12	
78650	8" x 10" anti-static bags	.49	.39	.29
13864	Anti-static foam	11.95	10.95	9.95

## 22'L Anti-Static Plastic DIP IC Storage Rails & Rubber Rail Stops

29516: .300" rail fits 8, 14, 16, 18, 20 and 22-pin ICs

29524: .600" rail fits 24, 28, 36 and 40-pin ICs

29583: Rubber stops used to plug plastic rail ends



29524 (ICs not included)



\* Order in multiples of 10

Part No.	Cross Ref. No.	Description	1	10	100
29516	RIC20	.300" W rail	\$.25	\$.22	\$.19
29524	RIC220	.600" W rail	.29	.25	.19
29583	RRS	Rubber stop	*	.07	.05

## Standard Adjustable 3X Magnifying Lamp

JAMECO BenchPro

- 4" Diameter lens
- Maneuverable 30" arm extension
- lamp tilts & turns in any direction
- Uses 60W incandescent bulb (not included)
- Power requirement: 110VAC/60Hz
- 3-diopter lens
- Weight: 2.9 lbs.



Part No.	Description	1	5
22710	Magnifying lamp	\$26.95	\$23.59

## 3X, 3-Bulb Magnifying Lamp

JAMECO BenchPro

- Three 9-watt fluorescent compact bulbs
- Adjustable 3-diopter lens
- 7" x 4.5" rectangular lens
- 47" long arm
- 2 on/off buttons
- Color: beige
- UL listed
- Weight: 8.15 lbs.



Part No.	Description	1	5
217517	Adj. magnifying lamp	\$89.95	\$84.95
1955052	LUX250W	White	\$34.95

## KLIP-ON Deluxe 3X Magnifying Lamps

JAMECO BenchPro

Ideal for limited workspaces in home or office.

- High quality 3.5" Dia. glass lens w/ dust cover
- Heavy duty 2" spring loaded clamp
- Super bright 13 watt fluorescent bulb (6400 Kelvin) included
- 16" gooseneck-directs light in any directions
- Weight: 2.0 lbs.

1955052

Part No.	Cross Ref. No.	Color	1	5
1955044	LUX250W	White	\$34.95	\$31.49
1955052	LUX250B	Black	34.95	31.49

## Precision 5 Diopter Magnifying Lamp

JAMECO BenchPro

Protects your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

13864: 22W circuline fluorescent bulb

Part No.	Description	1	5
197456	Magnifying lamp	\$99.95	\$89.95

\* Magnifying Lamps — Enter Web Code DAW

## 3X Magnifying Lamps

JAMECO BenchPro

Supplied w/ 22-watt circuline tube

- Extra strong, all-metal mounting base with electrical outlet
- New wire clip design permits easy installation
- Metal bulb holder for extra protection
- 3-diopter lens
- Weight: 7.3 lbs.
- Power requirement: 110VAC/60Hz

1955052

Part No.	Description	1	5
100829	Black lamp	\$59.95	\$54.95
149981	White lamp	59.95	54.95

Large Volume Orders Require Special Pricing

Call us at 1-800-831-4242

**JAMECO**

## General Purpose Illuminated 3X Magnifier

- 3.5"Dia. x 7.5"L
- Great for magnifying fine print
- 90mm diameter lens
- Light requires 2 AA batteries (not included, recommend P/N 198707, pg 149)

Part No.	Description	1	5
149542	Illuminated magnifier .....	\$4.95	\$4.49



## 3X Flexible Neck Magnifier

- 3.5" diameter
- 3x diopter lens
- Flexible gooseneck with workbench clamp
- Arm length: 20"
- Weight: 1.8 lbs.

Part No.	Description	1	5
239548	Flexible neck magnifier .....	\$10.95	\$8.95



## Glue Gun and Glue Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long gluesticks (2 sticks included) • Size: 7.3" L x 6.3" W

Part No.	Description	1	5	25
72696	Glue gun .....	\$7.95	\$7.29	\$6.49
78633	Glue sticks (6/pk) .....	2.95	2.49	1.95



## Butane Powered Mini-Trigger Torch

- Adjustable gas flow up to 2500°F
- Self-igniting piezo electric ignition
- Meets child safety requirements
- Slide lock for continuous use
- 60 min. burn time

Part No.	Mfr. Part No.	1	5
2097483	MT-70 .....	\$19.95	\$17.95
2097491	5 1/8 oz. butane	5.49	4.95



## Table-Top Micro Torch

- Flame temp. approx. 2500°F
- Self-igniting system w/ safety lock
- Safety lock to prevent unintentional ignition and for storage
- Wide stable base, perfect for lab use
- Educational lab burner applications
- Slide lock for continuous use • 60 min. burn time

Part No.	Mfr. Part No.	1	5
2097467	MT-30 .....	\$36.95	\$34.95
2097491	5 1/8 oz. butane	5.49	4.95



## Magna-Lite Butane Table-Top Torch

- Flame temperature: 2500°F (1300°C)
- Waterproof piezo ignition
- Adjustable flame control
- Refills in 20 seconds with standard butane gas
- Run time: 60 minutes (@ middle flame setting)
- Child-resistant ignition for safety
- Uses: brazing, soldering, heat shrink tubing, industrial maintenance

Part No.	Mfr. Part No.	1	5
1943001	ML200 .....	\$29.95	\$26.95

**Weller**



## Heat Guns and Strippers

All Master® products are made in the US from superior quality materials and the finest craftsmanship. Heat guns are ideally suited for drying, heating, welding, shrinking, soldering, desoldering, and many other applications where heat is required.

- 2076578: • CFM selectable • Includes 4 attachments & case  
• Weight: 1.0 lb.  
2076501: • No slip adjustable stand • Weight: 4.0 lbs.  
191943: • 3-pos. switch (hot/off/cool)



Web Code: QAJ

Part No.	Mfr.	Product No.	Description	Watts	Heat Setting (F)	Temp. (F max.)	1	5
2117413	NTE	HG300-D	Mini heat gun	350	482-662	662	\$19.95	\$18.95
254925	BenchPro	1001A	Economical heat gun	1000	600 & 1000	1000	39.95	35.95
76865	BenchPro	G1HG1	Heat gun/stripper	1500	600 & 1100	1100	39.95	35.95
2076578	Master	EC-100K	Economical heat gun (7 & 9 CFM)	1200	500 & 1000	1000	54.95	51.95
2076501	Master	HG-501A	Industrial heat gun (23 CFM)	1680	750	750	114.95	104.95
191943	Weller	6996C	Industrial heat gun	250	750-800	800	139.95	129.95
2007062	BenchPro	1004	Tool kit for 254925	—	—	—	12.95	11.95
217816	BenchPro	HG018-AO	Heat shrink attach for 76865	—	—	—	1.95	1.69
217832	BenchPro	HG018-CO	Air spreader for 76865	—	—	—	1.95	1.69

## Butane Powered Cordless Soldering Iron

- Built-in on-off switch
- Can be used as a torch or hot blower • Length: 8.5"
- Maximum temperature: 450°C (842°F)
- Average use of 40 minutes on a full load

Part No.	Mfr. Part No.	1	5
645520	GASIRON2 .....	\$29.95	\$26.95

## 16 to 30-Watt Variable Soldering Iron & Stand

- 116572: Length: 7.5"  
36329:  
• Black anodized steel base – 5.3" L x 3.3" W  
• See below for replacement sponge (P/N 134631)  
• Fits most soldering irons .85" dia.

Includes: Sponge

Part No.	Description	1	5	25
116572	258VL soldering iron	\$19.95	\$17.95	\$15.95
36329	Soldering stand	4.95	4.45	3.95
134631	Sponge (for P/N 36329) .....	2.95	2.59	2.29

## 25-Watt Thermally Balanced Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord • 25-watt power consumption
- Interchangeable tips (pg 168) • UL listed
- Length: 8.0" • One-year warranty

Includes: 1.6mm conical tip

Part No.	Mfr. Part No.	1	5	25
129040	200GX-25W	\$13.95	\$11.95	\$9.95

## 50-Watt SMD Tweezer Iron

- 168401 Includes: 0.078" tip  
236460: Replacement sponge  
168583: 0.078" replacement tip (see above)  
168591: 0.59" replacement tip (see above)

Part No.	Mfr. Part No.	For Use With	1	5
168401	TWZ50ESD	XY9-60A .....	\$44.95	\$39.95
236460	78-744615	XY9-60A .....	2.95	2.59

## 40-60-Watt High-Performance, Economical Soldering Irons

High-quality soldering irons that are suitable for both professional & do-it-yourself applications.

- Length: 9"
- 120VAC; 6' cord with 3-prong plug
- Tips for P/N 224602: P/N 226018/226000
- Tip for P/N 195223: P/N 226026
- For additional tips see pg 168

Part No.	Mfr. Part No.	1	5	25
224602	200PHG-40W	\$11.95	\$10.95	\$9.95
195223	200PHG-60W	12.95	11.49	10.49
226018	44-240513 conical tip	1.95	1.59	1.29
226000	44-240517 chisel tip	1.95	1.59	1.29
226026	44-240617 chisel tip	1.95	1.59	1.29

## 35-Watt SMD Tweezer Iron

- Max. temp.: 760°F
- 120VAC
- Max. efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W ea.

Includes: 0.078" tip

Part No.	Description	1	5	25
168410	Tweezer iron	\$54.95	\$49.95	\$44.95
168583	Tip .078"	9.95	8.95	7.95
168591	Tip .590"	11.95	10.95	9.95

## Weller® 25 & 35-Watt High-Quality Soldering Irons

- 120VAC @ 60Hz
- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar • Length: 9"

Includes: Power cord & ST3 tip (pg 166)

Part No.	Mfr. Part No.	Description	1	5
170587	WP25	25W solder iron .....	\$39.95	\$37.95
192102	WP35	35W solder iron .....	47.95	45.95
146608	ST1	Screwdriver tip 1/16" .....	5.95	4.95
146616	ST3	Screwdriver tip 1/8" .....	5.95	4.95
192145	ST6	Screwdriver tip .031" .....	5.95	4.95
146624	ST7	Conical tip 1/32" .....	5.49	4.49

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

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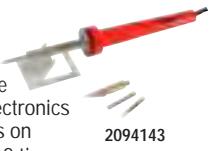
# Soldering Equipment

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## Weller® 25 & 40-Watt Marksman Home Project Kits

Perfect for beginners and hobbyists. Includes stand.

- Stainless steel barrel and heat/impact resistant handle
- Ideal for kits, radios and electronics
- Indicator light shows iron is on



2094143

2094143 Includes: Knife and 2 tips

2094160 Includes: Soldering aid tool, 3 tips & solder

Part No.	Mfr. Part No.	Description	1	5
2094143	SP23LHPK	25W Iron kit	\$19.95	\$18.95
2094160	SP40LK	40W Iron kit	24.95	23.49

## Weller® 100-Watt Soldering Iron

• "Closed loop" method of controlling max. tip temperature



192081



• Nominal heat-up time with 700°F tip is 110 seconds

• 120VAC @ 60Hz input

• Length: 6" • Weight: 0.7 lbs.

Includes: CT6F7 (0.375" screwdriver tip; 700°F)

Part No.	Mfr. Part No.	Description	1	5
192081	W100PGK	Solder iron	\$64.95	\$59.95
192090	CT6F7	.375" screwdriver tip	6.95	6.29

## Weller® 25 to 125-Watt Cordless Soldering Iron Kit

• Self-igniting & instant heat



• Adjustable temperature (25W to 125W)

• Auto switch off

• Visible gas level

• Additional tips can be special ordered

• 2 hours of heat on average tank setting

Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Mfr. Part No.		1	5
152207	PSI-100K		\$89.95	\$79.95

## Weller® 8/11-Watt Battery Powered Soldering Iron

• Heats to working temperature in less than 15 seconds



• White LED light illuminates working surface

• Dual heat settings: 8 watts on low setting (850°F) or 11 watts on high setting (950°F)

• Co-molded grip for comfort grip and protective safety cap turns off power when placed on tool

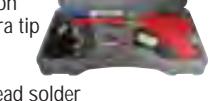
• Over 150 intermittent solder joints with fresh batteries

Includes: Iron, tip, 4 "AA" batteries, lead free solder, and tip/wrench stand

Part No.	Mfr. Part No.		1	5
1943060	BP860MP		\$23.95	\$19.95

## 30 to 100-Watt Soldering Kit

Includes: • 30W soldering iron



• 100W soldering gun w/ extra tip

• Manual desoldering pump

• Mini third-hand board/ component holder

• Lead solder

• Soldering aid tool

• Size: 13.8" L x 11" W x 3" H

Part No.	Product No.	Weight	1	5
684596	GSR-600A	4.0 lbs.	\$35.95	\$29.95

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

## WAHL® 25-Watt Cordless Soldering Iron

IsoTip® Power Pro Model #7904

- 900°F tip temperature
- LED indicator light
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Iron performance equivalent to 25-watt iron
- Weight: 1.1 lbs.



Includes: Iron, charging stand, battery pack and tips

Part No.	Description	1	5
132783	Power Pro cordless iron	\$69.95	\$64.95

\* Soldering Irons — Enter Web Code QAS

## Weller® 42-Watt Controlled-Output Soldering Station

- Complete with macro style, low voltage, temp. controlled soldering iron
- Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components
- 120VAC @ 60Hz input
- Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Weight: 4.0 lbs.



- Separate conductor grounds iron tip and terminates third pin of power cord
- Size: 5.9" L x 4.5" W x 3.6" H

Includes: Soldering iron and PTA7 tip (below)

• Tips all .062"

Part No.	Mfr. P/N	Description	1	5
170552	WTCP	Solder station	\$144.95	\$136.95
192161	TC201T	Replacement iron	79.95	72.95
192170	PTA6	Screwdriver tip 600°F	3.95	3.49
192188	PTA7	Screwdriver tip 700°F	3.95	3.49
192196	PTA8	Screwdriver tip 800°F	3.95	3.49

\* Soldering/Desoldering Stations — Enter Web Code GEJ

## 45-Watt Analog Display Soldering Station

### Grounded Soldering Tip

- 150°C to 480°C (302°F to 896°F)
- Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 4.1" L x 3.5" W x 3.5" H • Weight: 2.5 lbs.



Includes: Manual, soldering iron w/ 1/32" tip, stand, tip cleaner and sponge

156814: Sharp conical chisel tip

156822: Conical chisel tip

NEW  
MARKED IN PINK

Part No.	Mfr. Part No.	Description	1	5
2114685	LF369D	45W station	\$59.95	\$54.95
156814	XYB01	1/32" tip	3.95	3.49
156822	XYB04	1/16" tip	3.95	3.49
134631	SP715	Sponge	2.95	2.59

## Weller® 50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout
- Auto power-down after 90 minutes of inactivity
- Temp. accuracy: ± 9.0°F
- Temperature range: 350°F to 850°F
- ESD safe
- Size: 5.9" L x 4.5" W x 3.6" H • Weight: 4.0 lbs.



Includes: PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Part No.	Mfr. Part No.	Description	1	5
217461	WES51	Analog	\$124.95	\$121.95
233533	WESD51	Digital	169.95	159.95
2082847	PES51	Soldering iron	38.95	37.95



# Soldering Equipment, Solder Kits & Tips

3 LEVELS OF SAVINGS  
 NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## XYTRONIC 80-Watt Desoldering Station

- Input voltage: 100 – 120VAC @ 60Hz
- Heater: 32V, 80W
- Large digital temperature display
- Adjustable temperature without changing tips
- Tip temperature accurate to  $\pm 3^\circ\text{C}$  (6°F)
- Zero voltage switching & fully grounded design makes this unit safe on electro-sensitive devices
- Suction controlled by a finger actuator thyristor located on the desoldering handle
- Self-contained diaphragm vacuum pump engineered to provide continuous, maintenance free operation
- Temperature range: 300°C to 450°C (572°F to 842°F)
- Size: 7.9" W x 9.3" D x 4.5" H



**Includes:** DIA80 desoldering iron, 2 soldering stands, foam filters, & cleaning brush

Part No.	Mfr. Part No.	1	5
1919094	LF-6000R	\$299.95	\$284.95

## Soldering Starter Kit

This kit includes everything you need to get started soldering.

**Includes:**

- Solder stand P/N 36329
- 25-watt soldering iron P/N 224611
- Solder pocket pack P/N170457
- Replacement sponge P/N 134631
- Clip on heat sink P/N 159126
- Solder aid tool kit P/N 100503
- 4" diagonal wire cutter P/N 179902
- 5.3" flat long nose pliers P/N 35474
- 10-30 AWG wire stripper P/N 78992

Part No.	Description	1	5
2113228	Soldering starter kit	\$34.95	\$31.49



**Have A Large Volume Order  
That Requires Special Pricing?  
Call us at 1-800-831-4242**

## 40 & 80-Watt SMD Rework Stations

\* Web Code: NAT



224629 2099219

- Long-life ceramic heating element
- High-performance, inexpensive, versatile
- Thermocouple sensor for stable temperature
- Rapid heat-up and recovery

224629: 40-Watt • Size: 7.4" L x 5.0" W x 3.3" H  
 • Adjustable temperature: 482-842°F (250-450°C)  
 • 25-watt ceramic element • Weight: 2.6 lbs.

2099219: 80-Watt • Size: 8.8" L x 6.0" W x 4.5" H  
 • Adjustable temperature: 392-896°F (200-480°C)  
 • 40-watt ceramic element • Weight: 4.2 lbs.

**Includes:** Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers

Part No.	Description	1	5
224629	40-watt stationR	\$89.95	\$79.95
2099219	80-watt stationR	169.95	149.95
168583	.078" tipR	9.95	8.95
168591	.590" tipR	11.95	10.95
156814	.03125 conicalR	3.95	3.49

## Solder Aid Tool Kit

**Includes:** 1 each of chip holder, spacer, reamer, lever, needle, knife, fork shaft, hook and brush

Part No.	Mfr. Part No.	1	5
2096000	GSR-107	\$5.95	\$5.49

## 30-Watt Solder Tool Kit

### For Beginners

**Includes:** Soldering iron with stand, long nose pliers, wire strippers, side cutters & sponge

Part No.	Description	1	5
358598	7-piece tool soldering kit	\$15.95	\$13.95



## Tips & Replacement Parts for XYTRONIC Soldering and Desoldering Products



35318

35326

35078

35334

35115

35238

207335

207351



**★ Web Code: NAB**

For XYTRONIC Model Numbers (\*Legacy Models)

Part No.	Mfr. P/N	Description	Pricing														
			1680JLF-1000	258VJLF-1000	379-CJLF-369D	134ESD-379	AESD-DFSD	168-XYP60A	960D	968	999SDA	LF-7000	LF-8000	LF-6000	1	10	25
35318	XY48R	Assembly - 60W w/ nichrome heater						✓			✓				\$29.95	\$26.95	\$23.95
35326	XY401R	Soldering tip - conical bevel 1/32"	✓					✓	✓		✓	✓			4.49	3.95	3.59
35078	XY402R	Soldering tip - semi-chisel 1/32"	✓					✓	✓		✓	✓			4.49	3.95	3.59
35334	XY403R	Soldering tip - conical sharp 1/64"	✓					✓	✓		✓	✓			4.49	3.95	3.59
35115	XY404R	Soldering tip - conical chisel 1/16"	✓					✓	✓		✓	✓			4.49	3.95	3.59
35238	XY405R	Soldering tip - semi-chisel wide 1/8"	✓					✓	✓		✓	✓			4.49	3.95	2.95
207335	XY406R	Soldering tip - long conical chisel 3/64"	✓					✓	✓		✓	✓			4.49	3.95	2.95
207351	XY410R	Soldering tip - chisel 3/16"	✓					✓	✓		✓	✓			4.49	3.95	3.59
140231	XY430R	Soldering tip - SMD flat pack 7/32"	✓					✓	✓		✓	✓			6.95	5.95	4.95
156814	XYB01R	Soldering tip - sharp conical chisel 1/32"						✓							3.95	3.49	2.95
207327	XYB03R	Soldering tip - conical sharp 1/64"						✓							5.95	5.49	4.95
156822	XYB04R	Soldering tip - conical sharp 1/16"						✓							3.95	3.49	2.95
207298	XYB05R	Soldering tip - semi-wide chisel 1/8"						✓							4.49	3.95	3.59
127634	XYD10R	Desoldering tip - 1.0mm (.0394")							✓	✓	✓				8.95	7.95	6.95
127642	XYD12R	Desoldering tip - 1.2mm (.0472")							✓	✓	✓				8.95	7.95	6.95
127651	XYD15R	Desoldering tip - 1.5mm (.0586")							✓	✓	✓				8.95	7.95	6.95
2095496	XY10R	Desoldering tip - 1.0mm (.0394")										✓	✓		8.95	7.95	6.95
2095509	XY12R	Desoldering tip - 1.5mm (.0472")										✓	✓		8.95	7.95	6.95
2095517	XY15R	Desoldering tip - 1.5mm (.0586")										✓	✓		8.95	7.95	6.95

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## 420-Watt Hot Air SMD Rework Station with Digital Display

\* Web Code: NAT

- Incorporates the largest pump in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Automatic cooling mode protects the heating element
- Airflow capacity: 2.3L/min. (max.)
- 550W nichrome heating element
- Power supply: 100-120VAC or 220-240VAC

262844 24.2 (0.95)

- Electronically controlled temp. system with digital readout in preset and actual temperature
- Hot air temp. range: 100°C - 480°C (212°F - 896°F)
- 25W diaphragm pump • Adjustable air-flow
- Size: 7.3" W x 5.3" H x 9.6" D • Weight: 10.8 lbs.

**Includes:** Precision 5-pc. non-magnetic tweezer set, 4 focus hood tips (single 2.5mm and 4.4mm pipes, P/N 2097547 and 262908) Blue P/N = Limited Qty Avail.

Part No.	Mfr. Part No.	Description	1	5
2097547	852D	SMD rework ....	\$299.95	\$269.95
262959	A1136B	PLCC 20 x 20 ....	45.95	39.95
262908	A1126B	QFP 14 x 14 ....	29.95	25.95
262916	A1127B	QFP 17.5 x 17.5 ....	29.95	25.95
262852	A1261B	QFP 20 x 20 ....	45.95	39.95
262844	A1182B	BOFP 24 x 24 ....	45.95	39.95
262801	A1129B	QFP 28 x 28 ....	45.95	39.95
262932	A1258B	SOP 7.6 x 12.7 ....	29.95	25.95
262975	A1259B	SOP 13 x 28 ....	45.95	39.95

## Heat Sink & Soldering Aid Kit



100378

100503

100378: Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts

100503 **Includes:** Soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	100
100378	Heat sink ....	\$49	\$45	\$39
100503	7-piece soldering kit ....	6.95	6.29	5.49

## Solder Spool & Iron Stand

- 4 pc. spool stand (some assembly required)
- Size: 6'L x 3.5"W x 3.1'H
- Sponge size: 1.6"W x 2.4)L
- Shaft diameter: 0.6"



Part No.	Description	Wt. (lbs.)	1	5	25
169551	Spool & iron stand	2.0	\$9.95	\$8.95	\$7.95

\* Solder Spool Stand — Enter Web Code YAU

JAMECO

ValuePro

## Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft dia.: 0.6"

Solder not included



Part No.	Description	Wt. (lbs.)	1	5	25
141761	Solder spool stand	1.6	\$10.95	\$9.95	\$8.95

## Soldering Tip Cleaner with Stand

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability



Part No.	Description	Wt. (lbs.)	1	5	25
156777	Tip cleaner & stand	0.5	\$4.95	\$4.49	\$3.95

Part No.	Description	Wt. (lbs.)	1	5	25
160004	Metal wool replacement	0.1	\$2.49	\$2.29	\$1.95

## 150-Watt Solder Pot

- On-off switch on handle
- Input voltage: 120VAC
- Maintains pot temp. of 450°C to 480°C (842°F to 896°F)
- 3-conductor power cord: 5' long
- Pot size: 400mm deep x 400mm Dia.



Part No.	Product No.	Wt. (lbs.)	1	5
2115418	RD-7339	1.2	\$59.95	\$53.95

## 300-Watt Solder Pot

### Temperature Regulated Between 420°C and 450°C

- HI/LO temperature switch
- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 176057 or 170465, pg 170
- Input volt.: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base)
- Size: (tub) 2.4"Dia. x 1.6"D
- One-year warranty



Part No.	Description	Wt. (lbs.)	1	5
1951625	300W solder pot	5.9	\$89.95	\$79.95

\* Solder Pots — Enter Web Code HAW

## 600-Watt Solder Pot

### Temperature Adjustable

- 2-wire power cord (5'5")
- Temperature: 0°C to 500°C
- Self-regulating temperature
- Input voltage: 110VAC @ 5.5A
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 176057 or 170465, pg 170
- Size (unit): 6.8)L x 5.5"W x 2.8"H
- Size (tub): 3.9)L x 1.6"D



Includes: Skimmer and removable dross tray

Part No.	Description	Wt. (lbs.)	1	5
172276	600W solder pot	7.4	\$149.95	\$139.95

## 2000-Watt Solder Pot

- Thermostat control for setting temp. from 50°C to 300°C
- Holds up to 48 bars of P/N 176057 or 170465, pg 170
- 3 conductor pigtail power cord: 5'L
- Input voltage: 110VAC @ 18A, 50-60Hz single phase
- Size (unit): 18.1)L x 11.5"W x 6.0"H
- Size (tub): 12.0)L x 8.0"W x 2.9"H
- One-year warranty



Power cord not included  
Recommend 37997

Part No.	Description	Wt. (lbs.)	1	5
149876	2000W solder pot	23.1	\$329.95	\$299.95

\* Solder Spool Stand — Enter Web Code YAU

## 42-Watt Combination Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temperature control: 500°F to 800°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D



Includes: Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
183169	456DLX	5.2	\$79.95	\$74.95

## Vacuum Base Vise

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Powerful suction pad for quick and easy set-up
- Nylon jaws open 2.25"
- Size: 5.0)L x 4.0"W x 6.3"H
- One-year warranty



\* Web Code: TAD

Part No.	Mfr.	Product No.	Wt. (lbs.)	1	5
262116	ValuePro	GV-300	3.3	\$39.95	\$35.95

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5	
27131	PanaVise	M381	3.3	61.95	59.95

## Third Hand Tools

- Two adjustable arms with alligator clip jaws
- Quick and easy rotation
- Sturdy, heavy base



Part No.	Description	Size	Wt. (lbs.)	1	5
72865	With holder/sponge	2.0"	1.4	\$8.95	\$7.95

Part No.	Description	Size	Wt. (lbs.)	1	5
681002	With holder/sponge	3.5"	1.7	9.95	8.95

Part No.	Description	Size	Wt. (lbs.)	1	5
26690	Third hand	2.0"	1.4	5.95	5.49

## PANAVISE Multi-Purpose Work Center

- Jaws open to 9"
- Double action extra wide self-centering heads allow fast opening and closing; centered weight allows jaws to hold heavier objects; plates can be reversed to close together; reversible jaw pads feature ribbing on one side and a V groove on the other
- Base has three 1/4" countersunk mounting holes
- Overall base diameter is 8.5"



Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
684852	350	5.0	\$99.95	\$89.95

## PANAVISE Electronic Work Center

- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- One-year warranty



Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
27060	324	5.3	\$99.95	\$89.95

## PANAVISE Vacuum Base Vise

- Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are made of reinforced thermal alloy and open up to 2.9"
- Fine/coarse adjustment
- Jaw size: 2'H x 1"W
- Height: 7.5"H



Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
251791	209	0.8	\$39.95	\$35.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

169

# Vises, Soldering Accessories & Tape Products

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## PANAVISE PV Jr. Vise



- Jaw size: 1" wide x 2" long; opening: 2.8"
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- The vise neck tilts, turns and rotates
- Vise height: 6.8" • Weight: 1.4 lbs.
- Base bolt is 4.3" and fits all PanaVise base mounts

Part No. Mfr. Part No. 1 5

134439 PVJR 201R \$26.95 \$24.95

## Rapid Assembly Circuit Board Holder



- 8 positions rotating adjustment, six positive lock positions in the vertical plane and height adjustment for quick board rotation speeds
- Holds circuit boards from 1/8" (3.2mm) to 12" (304.8mm) wide and up to 5/32" (4mm) thick
- Arms move independently
- 10" high (from base to top of vertical shaft)

Part No. Mfr. Part No. Weight 1 5

684844 333R 6.4 lbs. \$79.95 \$75.95

## Clamp Vise



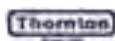
\* Web Code: TAD

- No tools needed — finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Size: 10.0" L x 2.5" W
- Nylon jaws open 2"
- Weight: 2.1 lbs.

Part No. Mfr. Part No. 1 5

127167 OR-307 \$19.95 \$17.95

## Clear Plastic Vials with White Lid



**NEW**  
MARKED IN PINK



- Crystal polystyrene vials
- White polyethylene snap-caps
- Uses: hobby, home, education and science/medical labs

2120858

Part No.	Volume (oz.)	Dia. (inch)	Inside Height (inch)	1	10	100
2120858	1.13R	1	2-5/8 ...	\$ .35	\$ .29	\$ .25
2120866	2.50R	1-1/2	2-11/16 ...	.55	.45	.39
2120874	5.00R	1-7/8	3-5/16 ....	.65	.55	.49

## Plastic Pump Bottle



- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover

Part No. Mfr. Part No. 1 10 100

158131 450R \$9.95 \$8.95 \$7.95

## 3M



285587



285464



652172



285907



645159



651882

Part No.	Description	Color	Width (in.)	Length (yards)	Thickness (in.)	Price		
						1	10	50
285587	Vinyl electrical tape, Tartan 1710, UL	Black	.75	20	.0070	\$1.19	\$1.09	\$ .99
285464	Vinyl electrical tape, Super 33+, UL	Black	.75	20	.0070	4.95	4.79	4.49
652156	Vinyl electrical tape, Super 35, ULR	Yellow	.75	22	.0070	4.95	4.79	4.49
652172	General purpose masking tape, ScotchR	Tan	.95	60	.0060	4.95	4.49	3.95
285907	Double sided foam tape	White	1.0	4	.1250	15.95	14.95	13.95
645159	Vinyl tape, clean removalR	Red	2.0	36	.0051	19.95	18.95	17.95
651882	Safety stripe tapeR	Yellow/Black	2.0	36	.0050	29.95	28.95	27.95

## Solder Bars, Rolls and Pocket Packs

\* Web Code: ABD

Part No.	Manufacturer	% Composition					Dia. "	L"	Weight	Type†	Pricing	
		Tin	Lead	Silver	Copper	Gold					1	10
73576	Kester	60	40	—	—	—	0.031	—	0.5 oz.	2	\$2.79	\$2.55
32117	Kester	60	40	—	—	—	0.031	—	1.0 lb.	1	25.95	22.95
141786	Super	60	40	—	—	—	0.031	—	1.1 lbs.	1	19.95	17.95
176057	ValuePro	60	40	—	—	—	—	13	1.1 lbs.	4	20.95	18.95
94570	Kester	60	40	—	—	—	0.05	—	1.3 oz.	2	3.15	2.85
73605	Kester	62	36	2	—	—	0.02	—	0.35 oz.	2	2.85	2.59
2119101	ChipQuikS	63	37	—	—	—	0.02	—	4 oz.	1	6.95	6.49
2119110	ChipQuikS	63	37	—	—	—	0.031	—	4 oz.	1	6.25	5.49
151474	Kester*	63	37	—	—	—	0.031	—	1 lb.	1	27.95	24.95
115433	Kester	63	37	—	—	—	0.039	—	0.14 oz.	3	.99	.75
170465	ValueProR	96.3	37	—	0.7	—	—	13	2.1 lbs.	4	19.95	18.95
668262	ValueProR	96.3	—	3.2	0.5	—	0.04	—	7.2 oz.	1	25.95	23.95
668297	ValueProR	96.3	—	3.2	0.5	—	0.04	—	1.1 lbs.	1	49.95	44.95
2119128	ChipQuikS	96.5	—	3	0.5	—	0.02	—	4 oz.	1	7.75	6.95
1945858	VariousR	96.5	—	3.0	0.5	—	0.02	—	1.1 lbs.	1	27.95	25.95
2113172	KesterR	96.5	—	3.0	0.5	—	0.031	—	0.43 oz.	2	2.49	2.29
2119136	ChipQuikS	96.5	—	3	0.5	—	0.031	—	4 oz.	1	6.95	6.49
668271	ValueProR	96.5	—	3.5	—	—	0.04	—	9.6 oz.	1	29.95	26.95
668318	ValueProR	96.5	—	3.5	—	—	0.04	—	1.1 lbs.	1	49.95	44.95
668422	ValueProR	96.5	—	—	—	3.5	—	13	2.2 lbs.	4	49.95	44.95
170457	VariousR	99.3	—	—	0.7	—	0.031	—	0.8 oz.	2	2.49	2.25
668078	ValueProR	99.3	—	—	0.7	—	0.04	—	7.2 oz.	1	15.95	13.95
209075	VariousR	99.3	—	—	0.7	—	0.031	—	1 lb.	1	19.95	18.95
668406	ValueProR	99.3	—	—	0.7	—	—	13	2.2 lbs.	4	34.95	31.95

\* Organic core † 1. Roll 2. Packet 3. Coil 4. Bar \$ 2.2% Rosin core © Blue Part No. = Limited Quantity Available



## 5' Desolder Braids

\* Web Code: DAG

Part No.	Manufacturer	Mfr. Part No.	Description	Width (ins.)	1	10
139951	Techspray	1814-5FR	No-Clean, Military & NASA certified	.030	\$3.59	\$3.29
124126	Techspray	1815-5FR	No-Clean, Military & NASA certified	.055	3.59	3.29
124118	Techspray	1816-5FR	No-Clean, Military & NASA certified	.075	3.59	3.29
263708	Techspray	1817-5FR	No-Clean, Military & NASA certified	.098	3.95	3.59
263695	Techspray	1803-5FR	Pro wick, pure rosin	.075	2.95	2.59
263599	Techspray	1804-5FR	Pro wick, pure rosin	.098	3.29	2.95
263581	Techspray	1511-5FR	Pro wick, pure rosin with bobbin	.098	3.29	2.95
41082	ValuePro	GISW20R	Solder braid	.079	1.89	1.69
41100	ValuePro	GISW25R	Solder braid	.098	1.99	1.79
153462	ValuePro	GSR104DR	Solder braid	.120	2.25	1.95
2113130	Chemtronics	60-3-5	Soder-wick no clean size 3	.008	3.75	3.49
2113148	Chemtronics	60-4-5	Soder-wick no clean size 4	.011	4.49	3.95
2113156	Chemtronics	40-3-5R	Soder-wick, lead free size 3	.008	4.25	3.75
2113164	Chemtronics	40-4-5R	Soder-wick, lead free size 4	.011	4.75	4.25

## Acid Brush

• Used for application of reactive solvents

Part No.	Description	1	10	100
153322	Metal handle, 6'R	\$ .65	\$ .55	\$ .45

JAMECO ValuePro

Clip-On Heat Sink

• Absorbs and dissipates heat during soldering and desoldering sensitive parts

Part No.	Product No.	Size	1	10	100
159126	HT156	2.7" L x 0.7" W	\$2.95	\$2.59	\$2.29

## Tech Closeout Center

Small Quantities Priced Near Cost New Products and Accessories That Didn't Make The Catalog Discontinued Consumer Products And a few surprises...



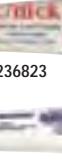
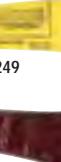
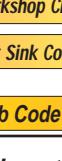
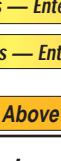
[www.Jameco.com/TechCenter](http://www.Jameco.com/TechCenter)

\* RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

**NEW**  
MARKED IN PINK

## Workshop Chemicals & Heat Sink Compounds

\* Shipped via UPS ground to continental U.S. only

Part No.	Manufacturer	Description	Vol. (oz.)	1	10	
2120794	MG Chemicals	Adhesive epoxy, high temperature encapsulating and potting compound	12	\$44.95	\$42.95	
615769	GC Electronics 	Adhesive, sealant, silicon, one part, non corrosive, clear	3	5.95	5.49	
645845	3M 	Super adhesive, household glue #6004*	1	4.95	4.49	
139900	Techspray 	Air duster, Envi-Ro-Tech, acusol, 100% HCFC, non-flammable, w/ trigger*	8	7.95	6.95	
263530	Techspray 	Air duster, Envi-Ro-Tech, acusol, 100% HCFC, non-flammable, w/ trigger*	12	13.95	12.95	
2094207	Caig/DeoxIT 	Air duster, non-flammable, moisture free, non-ozone depleting, no VOC*	10	6.95	6.49	
2112524	ChipQuik 	Cleaner & thinner, soldering tip for pre-tinning & tinning*	—	6.49	5.95	
2094231	Caig/DeoxIT 	Cleaner wash, contact evaporates quickly, safe on plastics*	10	7.95	6.95	
118033	Techspray 	Cleaner, contact, ECONOLINE, CFC free, aerosol can*	13.5	11.95	10.95	
2094223	Caig/DeoxIT 	Cleaner, contact, quick dry, chemically improves metal electronic connections*	0.5	10.95	9.95	
2110553	Caig/DeoxIT 	Cleaner, contact, for gold, perfect for new surfaces, prevents corrosion from beginning*	4g†	12.95	11.95	
2110545	Caig/DeoxIT 	Cleaner, electrical contact wipes, 25 individually pkg. cleans lubricates & deoxidizes conn.	—	14.95	13.49	
195004	Caig/DeoxIT 	Cleaner, contact, dioxidizer & preservative, improves electronic connections*	5	16.95	15.95	
2110473	Caig/DeoxIT 	Cleaner, screen, safe or CRT, DVD, TFT,LCD, touch, plasma, includes micro fiber cloth	22	10.95	9.95	
2094215	Caig/DeoxIT 	Cleaner & conditioner, soldering tip	0.5	8.95	7.95	
616331	GC Electronics	Conductive paint, silver print II*	0.5**	49.95	44.95	
2110511	Caig/DeoxIT 	Conductive pen, silver, works on rubber,epoxy,glass,plastic, repairs membrane buttons*	1g†	10.95	9.95	
2110529	Caig/DeoxIT 	Circuit writer pen, silver based, for drawing & repairing traces, works on rubb.,epoxy,glass,plastic*	5g†	18.95	16.95	
263716	Techspray 	Conductive pen, silver ink*	0.17	26.95	23.95	
2120559	MG Chemicals	Conformal coating, acrylic lacquer, protects from ESD*	2	10.95	9.95	
616411	GC Electronics 	Developer, positive type, concentrate, dilute 9:1*	6	11.95	10.95	
616438	GC Electronics	Etching solution, PC board, ferric chloride solution*	32	24.95	22.45	
616446	GC Electronics	Etching solution, PC board, ferric chloride solution*	128	49.95	44.95	
139934	Techspray 	Freeze spray, Envi-Ro-Tech, circuit chiller, CFC and HFC free*	8	12.95	11.95	
652210	3M 	Glue tip, scotch-weld tapered mixer tip #4902 for 2 part glue	—	1.49	1.19	
615347	GC Electronics	Heat sink compound, 100% synthetic base stocks type 44	1†	7.95	7.49	
615355	GC Electronics	Heat sink compound, 100% synthetic base stocks type 44	16†	39.95	35.95	
1582541	Wakefield 	Heat sink compound, silicon based	8†	23.95	21.95	
236823	ValuePro 	Heat sink compound, silicon based grease	0.35†	4.95	4.49	
167249	Aavid Thermalloy 	Heat sink compound, silicon based grease	2†	8.95	7.95	
169252	Techspray 	Heat sink compound, silicon free	4†	23.95	21.95	
259151	NTE	Heat sink compound, white gel, thermal grease 5 pack	0.35†	1.95	1.75	
615304	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	16†	29.95	26.95	
615312	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	0.23†	2.95	2.65	
615321	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	1†	7.95	7.25	
263572	Techspray 	Isopropyl alcohol, plastic bottle*	16	12.95	10.95	
2117157	Caig/DeoxIT 	Lubricant, use with conductive plastic faders and controls*	0.5	11.95	10.95	
2094240	Caig/DeoxIT 	DeoxIT® SHIELD SN5 spray lubricant & protectant, for electrical connections*	0.5	11.95	10.95	
645968	3M 	Mask, respirator, recommend for use w/ fiberglass insulation/drywall sanding	—	4.95	4.49	
2113084	Chemtronics	Overcoat pen, green acrylic coat,	0.16	17.95	16.49	
2117131	Caig/DeoxIT 	Shield, contact cleaner, for severe environments where pollutants are present, -59 to 410°F*	0.5	9.95	8.95	
481730	Techspray	Smoke detector test spray*	2	3.95	3.59	
615806	GC Electronics	Solder flux remover & cleaner II, non ODC, aerosol can*	16	9.95	8.95	
118041	Techspray 	Solder flux remover, ECONOLINE, CFC free, aerosol can*	13.5	12.95	11.75	
1586015	Chipquik 	Solder flux, tack for rework, no clean, 10cc w/ syringe	0.34	13.95	12.95	
2098216	Chipquik 	Solder flux, tack for rework, no clean, 10cc w/ syringe, water washable	0.34	15.95	14.95	
481764	Techspray	Solder flux, dispensing pen, No-clean, resin & halide free leaves no residue*	0.38	6.95	6.49	
615224	GC Electronics	Solder flux, liquid, non corrosive, solution of special rosin in alcohol*	2	8.95	7.95	
615232	GC Electronics	Solder flux, liquid, non corrosive, solution of special rosin in alcohol*	16	24.95	22.45	
615494	GC Electronics 	Solder flux, paste, strong flux for soldering sheet metal & pipes, <b>not for PCBs*</b>	2.29	7.25	6.49	
2113113	Chemtronics	Solder flux remover pen, precise control, fast drying, can be used with both organic & synthetic low solid no clean fluxes	0.32	10.49	9.49	
2113121	Chemtronics 	Solder flux remover pen, precise control, fast drying, can be used w/ lead free or leaded solder	0.32	10.49	9.49	
2094258	Caig/DeoxIT 	Solder flux, rosin paste for electronic applications including PCBs	2	8.95	7.95	
2117190	Caig/DeoxIT 	Solder flux, rosin paste for electronic applications including PCBs	8	29.95	26.95	
2113092	Chemtronics	Solder flux, rosin dispensing pen, for electronic applications including PCBs*	0.32	9.95	8.95	
2098208	Chipquik 	Solder paste, 63% SN, 37% PB, no clean 10cc w/ syringe	0.34	19.95	18.95	
2098224	Chipquik 	Solder paste, 63% SN, 37% PB, no clean 10cc w/ syringe, water washable	0.34	22.95	21.95	
2097441	Chipquik 	Solder paste, 96.5% SN, 3% AG, .5CU, no clean 10cc w/ syringe	0.34	21.95	20.95	
2098232	Chipquik 	Solder paste, 96.5% SN, 3% AG, .5CU, no clean 10cc w/ syringe, water washable	0.34	23.95	22.95	
525835	Chemtronics 	Solder mask, peelable, latex material, squeeze bottle*	8	12.95	11.95	
525851	Chemtronics 	Cotton swabs, double headed, 6" handle, 100-pack	—	4.95	4.49	

Test/Tools

\* Workshop Chemicals — Enter Web Code YAO

\* Heat Sink Compounds — Enter Web Code YBA

**For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above**



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

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**For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above**

# Solderless Breadboards & Digital Labs

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO

ValuePro

The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77682 (below).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry
- 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty

**Attention Educators! Buy jumper wire on pg 173 in bulk and SAVE!**  
(see Solid Hook-up Wire on page 58)

**JAMECO**

EXCLUSIVE



20670

20758

20812

\* Web Code: HAC

## WBUS Series Key Features:

- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

## JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body - CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, pg 173)
- Some models feature heavy-duty aluminum backings (20758, 136901, 20812)

Part No.	Cross Ref. No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size (L" x W")	Baseplate Size (L" x W")	Weight (lbs.)	Pricing			
									1	5	50	100
94457	JE19A	0	1	100	0	6.5 x 0.4	—	0.04	\$3.49	\$3.19	\$2.89	\$2.65
20601	JE21A	1	2	400	0	3.3 x 2.1	—	0.13	5.95	5.49	4.95	4.49
20670	JE22A	1	0	630	0	6.5 x 1.4	—	0.20	6.95	6.29	5.49	4.95
194299	JE37A	1	2	640	0	6.9 x 2.4	—	0.25	8.95	7.95	6.95	5.95
20723	JE23A	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	9.95	8.95	7.95	6.95
194272	JE34A	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	18.95	16.95	14.95	12.95
20758	JE24A	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	14.95	13.49	11.95	10.95
136901	WBU504T	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	19.95	17.95	15.95	13.95
20774	JE25A	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	20.95	18.95	16.95	14.95
20791	JE26A	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	27.95	24.95	21.95	19.95
20812	JE27A	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	33.95	29.95	26.95	24.95

<sup>T</sup>WBU5 and JE series do not interconnect

## Breadboard Pin to Breadboard Pin Test Leads

Part No.	Description	1	10	50
421315	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 24 AWG wire, 5.9" wire length (150mm)	\$9.95	\$8.95	\$7.95

## Digital Design Lab

\* Web Code: LAU

Our most popular digital lab!



### Solderless Breadboard

- 1580 tie points
- Fixed power supply: ±5VDC @ 1.0A
- Two 7-segment displays (digit height: 0.3")
- DCV digital multimeter
- One-year warranty

### Solderless Breadboard

- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- DC supplies equipped with short-circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

### Function Generator (5 ranges)

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine wave output: 0-8 Vpp variable
- Triangle wave output: 0-6 Vpp variable
- TTL mode output: 5Vpp (P/N 1919211 only)

### Includes:

Power cord and manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
75839	Digital labA	10.6 x 13.3 x 5.0	8.1 ...	\$379.95	\$359.95
1952599	Replacement breadboard	4.5 x 6.75 x 0.37	0.5 .....	29.95	26.95

## Digital/Analog Design Labs

### Solderless Breadboard

- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Variable DC output: 0 to +15V & 0 to -15V @ 500mA (P/N 136267) 0 to +15V & 0 to -15V @ 1A (P/N 1919211)
- Input power: 110/220VAC @ 50-60Hz (switchable)

### Function Generator (5 Ranges)

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine & square wave output: 0-8 Vpp variable
- Triangle wave output: 0-6 Vpp variable
- TTL mode output: 5Vpp (P/N 1919211 only)

### Other Features

- 2.5" diameter, 8Ω, 25W speaker
- 2 banana sockets, 2 BNC jacks
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- Two 7-segment LED displays (digit height: 0.3")
- 2 variable resistors: VR1=1kΩ, VR2=100k
- 8 data switches
- 8-bit red LEDs with separate input terminals
- One-year warranty

### Includes:

Power cord and manual (both P/Ns 136267 & 1919211); jumper wires (P/N 1919211 only)



136267

## AC/DC Power Supply

### Ideal for Breadboards on above

With built-in short-proof regulated power supplies.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in & start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77842, pg 158
- Size: 7.4"W x 5.5"D x 2.6"H
- Weight: 5.5 lbs.
- Color: beige
- One-year warranty

Part No.	Product No.	1	5
77682	Power supplyA .....	\$149.95	\$139.95



**Output Specifications:**  
+5VDC @ 1A;  
-5V @ 300mA fixed;  
0 to +15VDC @ 500mA variable;  
0 to -15VDC @ 300mA variable;  
12-6-0-6-12 tapped VAC,  
300mA fixed

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[www.Jameco.com](http://www.Jameco.com)

\* RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## Powered Project Breadboards

- Solderless breadboard with 2420 tie points
- Power switch with light
- Outputs are short-circuit protected

**Includes:** Power cord

136259:

- Fixed power: +5V @ 1A; variable power: 0 to ±15VDC @ 500mA
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103908, pg 41
- One-year warranty
- Breadboard size: 7.4" L x 6.8" W
- Back panel has ground terminal

1942163:

- Input power: 110VAC or 220VAC @ 50-60Hz (switch selectable)
- Triple output power supply: fixed 5VDC @ 1A; 0 to +16VDC @ 500mA (adjustable); 0 to -16VDC @ 500mA (adjustable)
- Grounded case
- Overload protection
- Fuse protection
- Lighted power switch

Part No.	Description	Overall Size	Wt. (lbs.)	1	5
136259	15VDC @ 500mA	9.8" L x 8.0" W x 2.6" H	6.8	\$175.95	\$159.95
1942163	5VDC @ 1A & 16VDC @ 500mA	10.3" L x 8.8" W x 3.3" H	6.0	99.95	89.95

## Bug Boxes

- Box size: 4.9" L x 3.3" W x 0.6" H
- Anti-static plastic
- 3 compartments
- Fits in bug cage (P/N 11332, below)
- Designed to store all types of components

**NEW  
MARKED IN PINK**



11375

2115661/2115670: 30 molded compartments

Part No.	Description	1	10	100
11375	3 ver. & 3 horiz. dividers	\$6.95	\$6.49	\$5.95
2115661	3 ver. & 3 horiz. (clear) ...	4.95	4.49	3.95
2115670	3 ver. & 3 horiz. (white) ...	4.95	4.49	3.95

## Bug Tray

- 10 compartments
- 3.2" L x 0.4" W x 0.4" H ea.
- Tray size: 4.8" L x 3.6" W x 0.5" H
- Fits in bug cage (P/N 11332, below)



Blue P/N =  
Limited Quantity

Part No.	Description	1	10	100
11800	Divided bug tray	\$4.95	\$4.49	\$3.95

## Bug Cage

- Holds bug boxes or trays
- Modular and interlocking
- Case size: 5.0" L x 3.9" W x 5.1" H

Blue Part No. = Limited Quantity Available



Boxes/Trays not included

Part No.	Description	Color	1	10	100
11332	Bug cage	Blue	\$8.95	\$7.95	\$6.95

## Plastic Fliptop Case for SMDs

**JAMECO  
ValuePro**  
**EXCLUSIVE**

- 128 compartments
- 8 rows x 16 columns grid
- Fliptop openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156882 SMD resistor assortment, pg 53



**Includes:** Labels for each bin

Part No.	Size (L" x W" x H")	1	10
164267	11.0 x 8.3 x 1.7	\$49.95	\$44.95

## Plastic Fliptop Boxes

- Clear plastic box with a clear plastic lid and removable dividers
- 100256: Size: 8.4" L x 4.5" W x 1.4" H
- 148902: Size: 10.2" L x 4.7" W x 1.6" H
- 2095955: Size: 7.7" L x 5.3" W x 1.4" H
- 11 individual rounded compartments



100256

Part No.	Compartment	1	10	100
100256	18 (1.4" x 1.5" each)	\$2.29	\$1.95	\$1.79
148902	12 (1.7" x 2.3" each)	3.95	3.49	2.95
2095955	11 (10-1.75x1.5", 1-3.5x1.5")	2.49	2.29	1.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



136259



1942163

**EXTECH  
INSTRUMENTS**

## Resistance & Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.



- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7" W x 5.7" H x 1.4" D • Wt: 0.7 lbs. 211668

211668: 1% resistance substitution from 1Ω to 11.11110MΩ

- 7 decade ranges of resistance
- Values can be changed in 1Ω increments • @ 3 watts



- 211676: 5% capacitance substitution from 100pF to 11.111μF
- 5 decade ranges of capacitance • @ 50VDC

Part No.	Description	1	5
211668	Resistance	\$99.95	\$89.95
211676	Capacitance	129.95	119.95

## Wire Jumper Kits

- 0.1" to 5.0" lengths (14 sizes)
- Pre-stripped/preformed
- Clear plastic durable case
- 22 AWG solid wire jumpers in 10 colors



2096018: 140 pieces, 10 of each length

19290: 350 pieces, 25 of each length

20080: 350 pieces, refill for 19290

\*Web Code: LAS

Part No.	Description	1	10	50	100
2096018	140-piece kit	\$7.95	\$7.29	\$6.59	\$5.95
19290	350-piece kit	16.95	14.95	12.95	10.95
20080	Refill for 19290	11.95	10.95	8.95	6.95

## Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



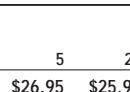
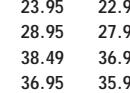
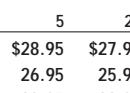
\*Web Code: LAS

Part No.	Product No. (mm/inch)	Length	1	10	100
126360	JW50	50/1.97	\$3.95	\$3.59	\$3.19
126342	JW100	100/3.94	5.95	5.39	4.95
126325	JW200	200/7.87	6.95	6.29	5.49

## Aluminum and Black Phenolic Boxes with Cover

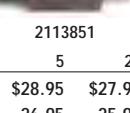


2113797 2113800 2113834 2113826 2114280



## Die Cast Aluminum Phenolic Boxes w/ Cover (B&E)

\*Web Code: PDC



2113851

Connector Types (A - B)	1	5	25
BNC(F) - BNC(F)	\$29.95	\$28.95	\$27.95
BNC(M) - BNC(F)	27.95	26.95	25.95
BNC(F) - BNC(M)	24.95	23.95	22.95
BNC(F) - BNC(F)	29.95	28.95	27.95
BNC(F) - BNC(M)	39.95	38.49	36.95
BNC(F) - BNC(M)	37.95	36.95	35.95

## Black Phenolic Box w/ Cover

Part No. Mfr. Part No. Size (L" x W" x H")

Part No.	Mfr. Part No.	Size (L" x W" x H")	Connector Type	1	5	25
2113851	2259	1.44 x 1.75 x 0.69	Post, double binding	\$27.95	\$26.95	\$25.95

Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

173

# Enclosures & ShapeLock Prototyping Compound

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ValuePro

The prototype builder boards on pg 175 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed on pg 175 (P/N 106551).

**Board description:** Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

See page 55 for Knobs and 108 Hardware

## Enclosures

JAMECO EXCLUSIVE

\* Web Code: UAL



\* All boards sold separately, see pg 175; multiple boards shown

### ABS Plastic Enclosures

Lid for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are interior dimensions.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
18922	H2855R	3.1" x 2.0" x 0.9"	\$3.49	\$3.19	\$2.89	\$2.49
18914	H2853R	4.9" x 2.5" x 1.5"	3.95	3.59	3.19	2.75
18893	H2851R	6.0" x 3.5" x 1.9"	4.95	4.49	3.95	3.49
18906	H2852R	7.5" x 4.3" x 2.3"	7.49	6.79	5.95	5.49

### Die-Cast Aluminum Enclosures

Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Includes screws.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
11957	B5002	3.9" x 2.0" x 1.0"	\$5.95	\$5.49	\$4.95	\$4.49
11965	B5004	4.7" x 2.4" x 1.6"	8.95	8.29	7.49	6.59
11973	B5006	7.5" x 4.3" x 2.4"	15.95	14.49	12.95	11.49

### Aluminum Enclosures

The enclosure comes in two pieces which slide together.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
11870	H2300R	4.0" x 2.0" x 2.8"	\$5.95	\$5.49	\$4.95	\$3.95
11886	H2320R	5.0" x 4.0" x 3.0"	8.95	7.95	6.95	5.95
11894	H2335R	7.0" x 6.2" x 4.6"	10.95	9.95	8.95	7.95

### SERpac

### Specialty Enclosures

#### A Series — with PCB Boss Mounts

- 4-piece design
- Interchangeable end panel
- 4-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	100
373456	A-42-BK	Black	None	7.12 x 5.00 x 1.62	\$14.49	\$12.95	\$11.49
373608	A-42-9V-BK	Black	1-9V	7.12 x 5.00 x 1.62	12.95	11.95	10.95

#### C Series — with Pinch-Fit for PCBs

- Simple 2-piece design
- 2-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
675331	C-4-BK	Black	2.13 x 1.38 x 0.58	\$2.95	\$2.69	\$2.39
694567	C-8-TR-RD	Red	2.40 x 1.85 x 0.93	3.95	3.49	2.95

#### H Series — Handheld with Built-in Battery Holder

- Ergonomic handheld design
- 5-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	100
374635	H-65-9V-BK	Black	1-9V	4.94 x 2.75 x 0.94	\$9.95	\$8.95	\$7.95
374942	H-67-9V-BK	Black	1-9V	4.94 x 2.75 x 1.28	8.95	7.95	6.95
374601	H-75-4AA-BK	Black	4-AA	7.20 x 3.65 x 1.20	13.95	12.49	11.95

#### S Series — Two-piece Standard Enclosures

- 2-piece design
- 2-insert areas for customized I-plates

† Insert on top is recessed 0.015" on all models designated with an "!"

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	100
675454	110-I-BK	Black	None	3.61 x 2.27 x 1.01	\$3.95	\$3.49	\$2.95
675462	111-BK	Black	None	3.61 x 2.27 x 1.51	4.49	3.95	3.49
675569	211-BK	Black	1-9V	4.10 x 2.60 x 1.51	4.49	3.95	3.49
675489	131-BK	Black	None	4.38 x 3.25 x 1.51	5.95	5.49	4.95
675577	231-BK	Black	1-9V	4.38 x 3.25 x 1.51	4.95	4.75	4.49
675500	151-BK	Black	None	5.63 x 3.25 x 1.51	6.95	6.29	5.59
675593	251-BK	Black	1-9V	5.63 x 3.25 x 1.51	7.95	7.29	6.49
675518	153-BK	Black	None	5.63 x 3.25 x 2.51	6.95	6.29	5.59
675526	171-BK	Black	None	6.88 x 4.88 x 1.51	9.95	8.95	7.95
675534	172-BK	Black	None	6.88 x 4.88 x 2.01	7.95	7.49	6.95
675542	173-BK	Black	None	6.88 x 4.88 x 2.51	10.95	9.95	8.95
675551	193-BK	Black	None	9.50 x 6.34 x 2.51	15.95	13.49	11.95

• Blue Part No. = Limited Quantity Available

• RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

## Enclosures

JAMECO EXCLUSIVE

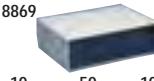
\* Web Code: UAL

### Metal Enclosures



Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
208901	B2741A	4.0" x 3.3" x 2.2"	\$5.95	\$5.49	\$4.95	\$4.49
208911	B2743A	5.9" x 5.3" x 3.0"	8.95	7.95	6.95	6.25
209350	B2746A	6.3" x 7.8" x 2.5"	9.95	8.95	7.95	6.95
208929	B2744A	7.3" x 6.3" x 2.8"	9.95	8.95	7.95	6.95
209358	B2747A	7.5" x 9.8" x 3.2"	14.95	13.49	11.95	10.95

### ABS Heavy-Duty Instrument Cases



P/N 18877 includes ventilation and speaker sound slots.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
18869	H2505R	7.9" x 6.3" x 2.5"	\$7.95	\$7.29	\$6.59	\$5.95
18877	H2507R	10.0" x 7.5" x 3.1"	8.95	7.95	7.49	6.95

### ABS Enclosures w/ Clear Tops



Includes screws for mounting boards, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
141832	203C1R	4.9" x 3.4" x 2.4"	\$8.95	\$7.95	\$7.49	\$6.95
141841	203D1R	6.5" x 3.4" x 2.2"	9.95	8.95	8.49	7.95
141859	203F1R	7.3" x 5.7" x 3.0"	11.95	10.95	9.95	8.95

\* Web Code: TBY



Please Note: Images used are representative. Color and shapes may vary by model.

### M Series — Handheld with Built-in Battery Holder

\* Translucent

- Streamlined handheld design
- 5-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
694815	M-6-TR-GY	Gray*	4.15 x 2.40 x 0.85	\$9.95	\$8.95	\$8.49
694807	M-6-TR-GR	Green*	4.15 x 2.40 x 0.85	11.95	10.95	9.95

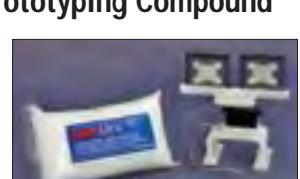
### R Series — Waterproof Cases to 30 Feet

- Dustproof, corrosion proof, airtight and UV protected with lifetime guarantee
- Auto pressure purge valve, secure lock holes, nut & bolt security & foam-filled

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
675614	R-120F	Black	7.6 x 5.0 x 2.2	\$19.95	\$17.95	\$15.95
675622	R-300F	Black	9.59 x 7.42 x 3.98	44.95	39.95	35.95

### SHAPELOCK Re-Usable Prototyping Compound

#### "Shape-then-lock" Design Plastic



Build your invention now – without machine tools. Create super-strong custom parts, prototypes, molds, servo brackets, robot housings, sculptures, science projects, and more.

- Melts at 160°F
- Safely hand moldable
- Becomes rigid at room temperature
- Non-toxic, light weight and paintable

Part No.	Mfr. Part No.	Description	1	5
2112495	01-250	250 gram bag	\$14.95	\$13.49
2112508	01-500	500 gram bag	24.95	22.95

**JAMECO**  
**ValuePro**

## General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

**JAMECO EXCLUSIVE**

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided

\*Web Code: LAG

See PCB enclosures on pg 174, and mounting hardware (recommend P/N 106551) below



Board Outline

w

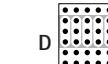
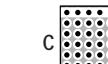
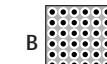
L

A

B

C

D



Holes Only

Pad Per Hole

Power/Ground Perimeter Bus with Pad Per Hole

3 Hole Solder Pad and Bus

Part No.	Cross Ref. No.	Size (W" x L")	Fits Enclosure(s) (see page 174)	Circuit Pattern	Hole Pads	# Holes x Dia. †	Power/Ground Buses	Connector I/O or Edge	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing			
											1	10	50	100
105102	5002PCB	1.50 x 3.50	11957	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	\$6.95	\$5.95	\$4.95	\$3.95
105100	2855PCB	1.60 x 2.70	18922	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	5.49	4.95	4.49	3.95
105129	2853PCB	2.00 x 4.40	18914, 11965	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	8.49	7.59	6.75	5.95
105111	2300PCB	2.40 x 3.40	11870	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	7.19	6.49	5.95
263207	PCB-463	2.40 x 4.10	—	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	7.95	6.95	5.95
28178	PCB1	2.42 x 4.10	—	C	Plated through	674 x .040"	None	None	4 x .120"	.04	6.95	6.25	5.59	4.95
263215	PCB-858	2.50 x 4.50	18914	D	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	7.95	6.95	5.95
105153	2851PCB	3.10 x 5.50	18893	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	6.95	6.95
263223	PCB-69	3.30 x 3.70	—	B	Single-sided	900 x .042"	None	None	4 x .120"	.05	8.95	7.95	6.95	5.95
105137	2320PCB	3.30 x 4.50	11886	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	8.95	7.95	6.95	5.95
105162	2852PCB	3.60 x 7.00	18906, 11973	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	13.95	12.49	10.95	9.95
21531	JE417	4.20 x 6.50	—	C	Plated through	2126 x .042"	2	D-sub 9/15/25/37	8 x .120"	.12	14.95	13.49	11.95	10.95
206587	2746APCB	4.30 x 6.80	209350	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	9.95	8.95	7.95	6.95
21435	JE401(8001)	4.50 x 6.50	18869	B/D	Single-sided	2360 x .042"	2	None	None	.12	16.95	15.49	13.95	11.95
21452	JE405(8003)	4.50 x 6.50	18869	C	Single-sided	2360 x .042"	1	None	None	.12	16.95	15.49	13.95	11.95
206579	2743APCB	4.60 x 4.30	208911	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.95	6.95	5.95	5.29
105180	2505PCB	5.00 x 6.50	18869	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	13.95	12.49	10.95	9.95
28194	PCB3	5.00 x 8.00	18877	C	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	23.95	21.49	19.95	18.95
21478	JE407(8006)	5.00 x 13.25	—	B	Plated through	6063 x .038"	None	None	8 x .120"	.28	39.95	35.95	32.95	28.95
206594	2747APCB	5.50 x 8.00	209358	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	11.95	10.95	9.95	8.95
105187	2507PCB	6.10 x 8.80	18877	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	16.95	15.49	13.95	11.95
263232	PCB-7038	8.30 x 11.9	—	B	Plated through	8819 x .042"	10	None	4 x .115"	.40	39.95	35.95	31.95	27.95

\* PC/XT 8-bit

**VECTOP**  
ELECTRONIC COMPANY

## Vector Prototyping Boards

Part No.	Product No.	Size	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	10	50					
43140	64P44XXXX	4.50 x 6.50#	18869	A	Drilled only	2860 x .042"	None	None	.09	\$8.95	\$8.49	\$7.95	\$7.49
52943	84P44WE	4.50 x 8.50	18877	A	Drilled only	3740 x .042"	None	None	.15	12.95	12.45	11.95	11.49
37612	169P44XXXX	4.50 x 17.0#	—	A	Drilled only	7524 x .042"	None	None	.25	14.95	13.95	13.49	12.95
37621	169P84WE	8.50 x 17.0	—	A	Drilled only	14,448 x .042"	None	None	.53	29.95	28.95	27.95	26.95
106551	20 pieces; PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards (manufacturer may vary)						2.95	2.59	2.29	1.95			

# PCB material: phenolic    † All 0.042" Diameter hole boards use terminals P/Ns 34147, 34155 and 34163 (below left)

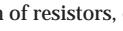
## PT Series Prototyping Boards

\* Web Code: WCG

Accommodates any mixture of 0.3" to 0.6" wide ICs with any number of pins, and any combination of resistors, capacitors, diodes, transistors, etc.

- 4 power buses that connect to a power jack (recommended P/Ns 101178 & 101186, pg 130)

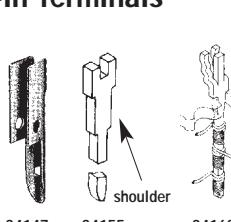
Part No.	Product No.	Size	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	10	50
645677	PT-35X25	3.5" L x 2.5" W	Double-sided	456 x .036"	4 x .140" .....	\$16.95	\$14.95	\$12.95
262511	PT-5X37	5" L x 3.7" W	Double-sided	1135 x .036"	4 x .140" .....	23.95	21.95	18.95
262537	PT-6X49	6" L x 4.9" W	Double-sided	1931 x .036"	4 x .140" .....	29.95	26.95	23.95



## Wire Wrap and Push-In Terminals

### For .042" Diameter Holes

- Material: copper alloy
- Prebagged 100 pcs.
- 34147: Push-In Micro-Klip Terminals
- Overall length: .36"
- Post size: .032" x .045"
- 34155: Miniwrap Wiring Terminals
- Shoulder: .045"
- Overall length: .69"
- Post size: .025" Sq.
- Two-prong with square tail for wire wrapping
- 34163: Klipwrap Wiring Terminals
- Overall length: .83"
- Post size: .025" Sq.
- Three-prong with square tail for wire wrapping



\* Web Code: XCE

Part No.	Mfr. Part No.	Height Above .062" Board	Length Below .062" Board	100 pc. units	
				1	10
34147	T421	.200	.097	\$8.95	\$7.95
34155	T44	.065	.530	9.95	8.95
34163	T49	.200	.530	17.95	16.49

**DATAK**

## Pre-Sensitized Circuit Boards & Chemicals

- Pre-coated circuit board
- 1/16" thick

Includes: Instructions

P/N 2097088 Includes:

ER-18 tinnit solution, 8" x 6" x 2" pan, 16 oz. bottle

156751



Part No. Mfr. Part No. Description

Part No.	Mfr. Part No.	Description	1	10	50
2097117	14-024	Single sided (2.0" L x 4.0" W)	\$4.49	\$3.95	\$3.49
156751	14-034	Single sided (3.0" L x 4.0" W)	4.95	4.49	3.95
156742	14-234	Double-sided (3.0" L x 4.0" W)	5.95	5.49	4.95
156734	12-404*	4 oz. positive developer	14.95	13.49	11.95
2097070	12-500	Clear copy sheets (8.5" x 11.5") 5 pk.	4.49	3.95	3.49
2097096	12-710	4 oz. developer/fixer concentrate	7.95	7.49	6.95
2097109	12-720	Neg. fast-acting film, 6 sheets, use w/ 2097096	7.95	7.49	6.95
2097088	12-800	Tin plating copper kit	16.95	15.49	13.95
70201	ER3*	Dry concentrated etchant (makes 1 pint)	5.95	5.49	4.95

\* Shipped via UPS ground – available continental U.S. only

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Circuit Boards & Prototype Boards

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

JAMECO ValuePro

## Prototyping Developer Kit

The Jameco Prototyping Developer Kit includes everything you need to get started with prototyping your own PCB.

- 2 precoated circuit boards, 3" x 4" x 1/16" (P/N 156751, pg 175)
- 4 oz. positive developer concentrate (P/N 156734, pg 175)
- 32 oz. etching solution (P/N 616438, pg 171)

Part No.	Description	1	5
2113244	Prototyping developer kit	\$46.95	\$42.49



## Positive Pre-Sensitized Circuit Boards

1 oz. copper on 1/16" epoxy glass board, UL94V-0 rated.

The peel-off coating protects the board while handling or cutting prior to exposure.

Part No.	Mfr. Part No.	Description	Size	1	10	50
616251	21-334	Single-sided	4" x 6"	\$5.95	\$5.49	\$4.95
616260	21-336	Single-sided	6" x 6"	7.95	7.29	6.49
616307	21-353	Double-sided	6" x 9"	13.95	12.95	11.95



## Prototype Boards

### Export Design Phenolic Prototype Board

Accommodates all types of IC's, transistor packages and passive parts. Lands and bus bars are tin plated. 0.1" centers.

Part No.	Mfr. Part No.	Size	1	10	50
616631	22-504	3 1/8" W x 5 1/16" L x 1/16" Thick	\$5.95	\$5.49	\$4.95



### Experimenter's Phenolic Prototype Boards

- Copper plated with 94 five-point terminals and two 40-point bus strips

Part No.	Mfr. Part No.	Size	1	10	50
616649	22-508	2.0" W x 6.0" L x 1/16" Thick	\$10.95	\$9.95	\$8.95
616673	22-512	3 3/8" W x 6.75" L x 1/16" Thick	6.95	6.49	5.95



### Perforated Bare Phenolic Prototype Boards

Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.

Part No.	Mfr. Part No.	Size	Hole Dia.	1	10	50
616681	22-514	2.25" W x 6.0" L x 1/16" Thick	.093	\$7.49	\$6.95	\$6.49
616690	22-516	4.5" W x 6.0" L x 1/16" Thick	.042	5.95	5.49	4.95



### Versa Strip Phenolic Prototype Board

- Alpha-numeric indexing
- Silver-plated land patterns
- 0.035" diameter holes
- 0.1" centers

Part No.	Mfr. Part No.	Size	1	10	50
616622	22-502	3.5" W x 6.0" L x 1/16" Thick	\$11.95	\$10.95	\$9.95



### Plug-In IC Phenolic Prototype Board

ICs plug directly into board. It's 0.1" spacing accepts 14-pin up to 20-pin ICs. Silver plated lands with 24-way card edge connector plug on one end. 0.035" diameter holes.

Part No.	Mfr. Part No.	Size	1	10	50
616614	22-500	2.38" W x 4.0" L x 1/16" Thick	\$4.49	\$4.29	\$3.95



## Copper-Plated Blank Circuit Boards

Ideal for hobbyists & students doing prototypes of circuits. Both single and double-sided boards are copper plated.

- 1.6mm (1/16") thick
- PCB material: phenolic

Part No.	Cross Ref. No.	Description	Fig.	Size (L" x W")	1	10	50
169279	PCBS3X6	Single-sided	3	2.9 x 5.9	\$2.95	\$2.69	\$2.39
169288	PCBS6X6	Single-sided	2	5.9 x 5.9	3.95	3.49	2.95
169296	PCBS12X12	Single-sided	1	11.8 x 11.8	9.95	8.95	7.95
169309	PCBD3X6	Double-sided	3	2.9 x 5.9	3.49	2.95	2.49
169317	PCBD6X6	Double-sided	2	5.9 x 5.9	5.95	5.49	4.95
169325	PCBD12X12	Double-sided	1	11.8 x 11.8	19.95	17.95	15.95



Fig. 1 Fig. 2 Fig. 3

## BELLIN DYNAMIC SYSTEMS, INC. Surface Mount Proto Boards

Prototyping SMT circuit boards has been tedious and time-consuming. Now there is an easy, cost-effective and versatile Snap-Apart™ solution from Bellin Dynamic Systems.

- V-groove scoring between elements for smooth straight edges
- Compatible with .100" single or dual row male headers (see pg 74)
- Board thickness: 0.031"
- Size: 7.6" L x 5.0" W
- Visit [www.Jameco.com](http://www.Jameco.com) for additional specifications

In use of 215503

215491



\* Web Code: HDS

### Small SMT

Part No.	Mfr. P/N	Board Description	1	10
215491	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more ...	\$44.95	\$39.95
227344	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	44.95	39.95

### SOIC

215520	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more ...	\$44.95	\$39.95
227310	B510	140 SMT pattern, SOIC 8 to DIP .300" width .....	44.95	39.95
227328	B511	63 SMT pattern, SOIC nrw/wd 8, 14, 16, 18, 20 to DIP .300"	34.95	31.95
227352	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18, 20 to DIP .300"	44.95	39.95
227361	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width .....	44.95	39.95

### Fine Pitch Dual Row

215503	B503	34 SMT pattern, SOIC/QSOP/TSOP/MSOP & more ..	\$44.95	\$39.95
227281	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more .....	44.95	39.95
323889	B516	54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600	44.95	39.95
323900	B517	18 SMT pattern, 0.4mm/0.5mm/0.65mm TSSOP 48 .....	44.95	39.95
681141	B536	4 SMT pattern, 0.5mm TSSOP 14/16/20/28 .....	34.95	31.95
2097934	B537	54 SMT pattern, 0.4mm TVSOP 14/16 & TSSOP/TVSOP 20/28	44.95	39.95

### Quad

323918	B518	2 SMT 0.65mm or 0.8mm pitch, universal QFT adapter for ..	\$29.95	\$26.95
		QFP32/40/48/56/64 (by 8-pin increments to 256 pins)		
336479	B530	8 SMT, 0.65/0.80mm QFP/MLF 8 - 80 pins (even # of pins/side)	29.95	26.95
336487	B531	8 SMT, 0.65/0.80mm QFP/MLF 4 - 76 pins (odd # of pins/side)	29.95	26.95
336508	B533	8 SMT, 0.40/0.50mm QFP/MLF 4 - 76 pins (odd # of pins/side)	29.95	26.95
681150	B535	8 SMT, 0.40/0.50/0.65/0.80mm QFP/TQFP/QFN/MLF/MLP .....	29.95	26.95
		4/8/12/16/24/28/32 pins		

### PCB Connector (0.062" thick through-hole)

Part No.	Mfr. P/N	Description	Price
227272	B506	45 SMT pattern, USB A, B/1394/RJ11, 12, 45/DB9 PCB connector	\$29.95

### PitchStick™

227299	B508	20 SMT pattern, 48 inline pads, metric/rare pitches .....	\$29.95
681133	B534	2 SMT pattern, 48 inline pads, 19.69/25.59 mil pitches .....	34.95

### Kit

681205	KIT-302	1 each of B504, B505, B507, B508, B510, B513, B514, B515, B516, B517, B518, B519, B535, B536, B537 & 3 of B500	\$399.95
--------	---------	--	----------

### Development Board

- Six slots for DC regulators
- "Star Ground" points for non-isolated supplies
- Marked referencing: chassis, earth or circuit common

Part No.	Mfr. Part No.	1	10	50
616471	22-250	3" x 5" x 1/16"	\$3.95	\$3.59
616489	22-260	4" x 6" x 1/16"	4.49	3.95
616497	22-261	6" x 6" x 1/16"	5.49	4.95
616500	22-263	6" x 9" x 1/16"	5.95	5.49
616518	22-264	8" x 10" x 1/16"	9.95	8.95
616534	22-268	11" x 14" x 1/16"	17.95	16.95

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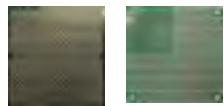
RoHS compliant product   This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)



## Prototyping Boards

\* Web Code: ADS

SchmartBoard™ is the only prototyping system that makes it possible for anyone to hand solder surface mount components. Whether SOIC, QFP, QFN or even BGA you can easily, flawlessly and quickly hand solder it.



1537580



2116912



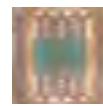
2116980



2116998



1537635



2116947



2116939



2116921



2116955



1537660



2116971



2116963



2117093



2117106



2117114

## Thru Hole Boards

**NEW**  
MARKED IN PINK

1 5

Part No.	Mfr. Part No.	Description	1	5
1537580	201-0001-01	2"x2", 0.1" center spacing w/ 0.05" offset, 12 ground holes	\$5.95	\$5.49
2116912	201-0302-01	4"x4", 0.1" center spacing w/ 0.05" offset, 2 columns, power & ground holes (75% w/ offset traced row of holes and 25% untraced holes)	14.95	13.95

## Discrete Surface Mount Boards

2116980	202-0034-01	0201/0603/0805/1206/1210/1608/1812/2010/2512 discrete SMT in case size A/B/C	\$9.95	\$8.95
2116998	202-0035-01	SOT23-3/5/6/ SC70-5/6/ DPAK/ D2PAK/ SOT223/ TO-263-7/ SOT89/ 8085/1206 discrete in case size A/B/C/D/E	9.95	8.95

## SO/SOP Boards

1537635	202-0004-01	2"x2", supports up to 56-pin SOIC w/ 0.05" pitch, 20 pcs. of 0603 package, 12 ground holes	\$9.95	\$9.49
2116947	202-0007-01	2"x2", supports up to 72-pin SO/ SOP/ QSOP/ SSOP/ TSSOP/ PSSOP ICs w/ 0.50mm pitch, 43 pcs. of 0603 & 8 pcs. of 0805 packages, 6 ground holes	9.95	8.95
2116939	202-0006-01	2"x2", supports up to 72-pin SO/ SOP/ QSOP/ SSOP/ TSSOP/ PSSOP ICs w/ 0.65mm pitch, 37 pcs. of 0603 package, 14 ground holes	9.95	8.95
2116921	202-0005-01	2"x2", supports up to 72-pin SO/ SOP/ QSOP/ SSOP/ TSSOP/ PSSOP ICs w/ 0.80mm pitch, 30 pcs. of 0603 package, 14 ground holes	9.95	8.95

## QFP Boards

2116955	202-0009-02	2"x2", supports up to 64-pin QFP/ TQFP/ PQFP ICs w/ 0.80mm pitch, 38 pcs. of 0603 package, 22 ground holes	\$9.95	\$8.95
1537660	202-0011-01	2"x2", supports up to 100-pin QFP/ TQFP/ PQFP ICs w/ 0.50mm pitch, 20 pcs. of 0603 package, 6 ground holes	9.95	9.49

## Chipscale (QFN) Boards

2116971	202-0017-01	2"x2", supports up to 32-pin QFN ICs w/ 0.50mm pitch, 168 pcs. of 0603 package, 12 ground holes	\$9.95	\$8.95
2116963	202-0016-01	2"x2", supports up to 24-pin QFN ICs w/ 0.50mm & 0.65mm pitches, 54 pcs. of 0603 package, 12 ground holes	9.95	8.95

## Accessories

2117093	920-0005-01	22 AWG, 3" jumper wires & 20-pin headers, 10 pcs.	\$4.95	\$4.75
2117106	920-0007-01	22 AWG, 7" jumper wires & 20-pin headers, 10 pcs.	4.95	4.75
2117114	920-0021-01	SchmartSolder, 50 pcs., 50-lead capability, gauge: 0.020", solder rings	4.95	4.75



Mini Breadboards  
for Surface  
Mount Devices. 207360

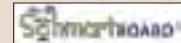
## Surfboards®



## Application Specific Adapters

Part No.	Mfr. Part No.	Accepted Devices	Pins	1	10
207360	9081	(For 8-pin SOIC)	\$1.49	\$1.19	
207378	9082	(For 8-pin SOIC)	3.95	3.49	
207386	9161	(For 14/16-pin SOIC; 0.1"pin spacing; 0.65"H)	1.95	1.75	
207394	9163	(For 14/16-pin SOIC; 0.1"pin spacing; 0.65"H)	5.95	4.95	

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



\* Web Code: PDM

## Power & Development Modules

### Populated Single Voltage Regulated Power Modules



- Highly stable linear-low-drop voltage regulators with 12VDC input
- Output peak: 800mA
- For negative voltage: reverse output and ground

**NEW**  
MARKED IN PINK

Part No.	Mfr. Part No.	Output Volt.	1	5
2117018	710-0003-01	1.5	\$9.95	\$8.95
2117026	710-0003-02	1.8	\$9.95	\$8.95
2117034	710-0003-03	2.5	\$9.95	\$8.95
2117042	710-0003-04	3.3	\$9.95	\$8.95
2117051	710-0003-05	5.0	\$9.95	\$8.95
2117069	710-0003-06	9.0	\$9.95	\$8.95

### Populated RS-232 SchmartModule

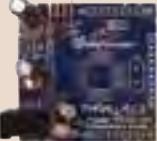


- Operates from a single 5V power source, ESD

**NEW**  
MARKED IN PINK

Part No.	Mfr. Part No.	1	5
2117000	710-0001-01	\$14.95	\$13.49

### Parallax Propeller SchmartModule Kit



This kit includes the board, voltage regulator ICs, capacitors, LEDs, headers, resistors and a pushbutton switch. You supply the Propeller chip, memory, and optional 5MHz crystal. The Propeller chip makes it easy to rapidly develop embedded applications, and this kit allows you to easily interface with the Propeller chip for programming.

- 2" x 2" PCB
- 6.5-12VDC
- For Parallax Propeller P8X32A-Q44 (use P/N 2007151, see web)
- For 5MHz crystal (use P/N 324929, pg 40)

Part No.	Mfr. Part No.	1	5
2117085	710-0005-01	\$14.95	\$13.49

### PIC® Microcontroller Development SchmartModule



This board supports 116 different SOIC PIC® Microcontrollers. Simply solder on your PIC using the EZ technology and you are ready to go. This one board supports most of the 8-bit PICs available in SOIC package.

Part No.	Pins	Size (L x W)	1	5	25
73542	44	2.3" x 1.6"	\$13.95	\$12.49	\$11.95
73551	68	3.4" x 1.6"	15.95	13.49	11.95
73569	84	4.3" x 1.9"	17.95	16.49	14.95

Enter web codes online for additional product listings & specifications. Look for the web code box on the home page.

[www.Jameco.com/More](http://www.Jameco.com/More)

# Prototyping Boards & PIC Programmers

3 LEVELS OF SAVINGS  
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## Flexible Prototyping System

ProtoFlex has devised a flexible, self-adhesive adapter system that makes it easier to integrate SOIC, TSSOP, SOT, D-Sub, and other small components into your prototyping design.

The pre-cut adapters can be applied to virtually any surface.

- 3 mil thick design keeps components low profile
- Large pads allow for easy surface mounting of wires
- Unique, dual, asymmetric hole pattern for multiple connection points
- Multiple silk-screen blocks for reference and pin identification



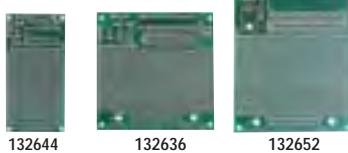
\* Web Code: FPS

**NEW**  
MARKED IN PINK

Part No.	Description	1	5
2121201	SOIC, 5 ea. of 8, 14, 16 & 20-pin adapters .....	\$59.95	\$56.95
2121210	TSSOP/SSOP, 5 ea. of 8, 14, 16 & 20-pin adapters, .65mm pitch ..	59.95	56.95
2121228	Variety of common SOT, SC-70, DD-PAK, 1206 & other SMT layouts ..	59.95	56.95
2121236	IDC ribbon, 4 ea. of 10, 20 & 34-pin configurations, 2.54mm pitch ..	59.95	56.95
2121244	D-Sub interface, 4 ea. 9, 15 & 25-pin configurations, 2.74mm pitch ..	59.95	56.95
2121252	Kapton insulators, 3 mil, for electrical & thermal insulation, pre-cut ..	19.95	18.95
2121261	Protoboard alignment tool, board must have 1.06mm dia. holes ..	59.95	56.95
2121279	Tool accessory kit, 4 alignment pins, 4 screws, foam pad, case ..	24.95	22.95
2121287	4 replacement pins for alignment tool, .13mm pin dia., .. fits 1.06mm board holes ..	1.29	1.15

## microEngineering Labs "PICProto" Prototyping Boards

- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes
- Large prototyping area
- Silkscreen legend
- Solder mask on both sides makes soldering easy



\* Web Code: DAT

**Includes:** Documentation sheet with schematic, suggested parts and placement  
**PICProto 18, 18L:** All 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83 and 84

Part No.	Mfr. Part No.	Description	Size (L" x W")	1	5
132644	PP18	PICProto 18	3.0 x 1.5 .....	\$9.95	\$8.95

**PPUSB:** For the 28-pin PIC16C745, 765: PIC18F2450, 2455, 2550  
 For the 40-pin PIC18F4450, 4455, 4550

Part No.	Mfr. Part No.	Description	Size (L" x W")	1	5
1942180	PPUSB	PICProto USB	3.6 x 4.1 .....	\$19.95	\$17.95

**PICProto 3:** For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242 and 252

Part No.	Mfr. Part No.	Description	Size (L" x W")	1	5
132636	PP3	PICProto 3	3.0 x 3.0 .....	\$14.95	\$12.49

**PICProto 64:** For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422 and 452

Part No.	Mfr. Part No.	Description	Size (L" x W")	1	5
132652	PP64	PICProto 64	4.0 x 3.0 .....	\$16.95	\$12.95

## microEngineering Labs PICBasic & Pro Compilers

- Compatible w/ most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows® (includes Windows® editor/DE software)
- I²C instructions to access external serial EEPROMs

### 132661: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- Supports PIC12C67x, 14Cxxx, 16C55x, 66x, 7xx, 84, 92x, and 16C88x microcontrollers
- Serial speeds to 9600 baud

### 150543: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k
- MPLAB/MPASM/ICE compatibility
- Bit, byte, word arrays
- Supports PIC12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx and 18Cxxx microcontrollers

Part No.	Mfr. Part No.	Description	1	5
132661	PBC	PICBasic compiler .....	\$65.95	\$59.95
150543	PBP	PICBasic Pro compiler .....	225.95	195.95



RoHS compliant product   This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## microEngineering Labs Experimenter's Module Board

Provides an assembled test bed containing most of the circuitry commonly used with PIC microcontrollers. Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer and RC servo controller.



- 40-pin ZIF socket for PIC MCU (P/N 104030, below) and PIC16F877-20/P (P/N 176882, below)
- Reset button
- 16 switch keypad
- 2 RC servo connectors
- LED bargraph
- RS-232 interface
- 3 potentiometers
- Speaker
- 2 lines x 20 characters LCD module
- Size: 5.5" x 5.6"
- One-year warranty
- Socket for I2C & SPI serial EEPROM, RS-485 interface, Microwire serial EEPROM and real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector
- Prototyping area for additional circuit

Requires: AC adapter (below)

Part No.	Description	1	5
169113	LAB-X1A experimenter board (assembled) .....	\$199.95	\$189.95
176882	PIC16F877-20/P microcontroller (pg 11)	5.65	5.45
127976	AC adapter (details on pg 124) .....	6.95	6.25
104030	40-pin ZIF socket (details on pg 84)	11.95	10.75

## Microchip PICKit™ 2 Microcontroller Starter Kit

The PICKit™ 2 microcontroller programmer is a low cost development programmer. It is capable of programming most of Microchip's Flash microcontrollers. New device support can be added by updating the operating system. The latest firmware is available on Microchip's website. This kit includes PICKit™ 2 microcontroller programmer, USB cable and CD ROM.



Part No.	Mfr. Part No.	Description	1	5
697338	DV164120	Programmer starter kit .....	\$74.95	\$69.95

## Velleman PIC™ Programmer Board

- Regularly updated list of microcontrollers through Velleman's website ([www.vellemanusa.com](http://www.vellemanusa.com))
- On-board configurable 40-pin ZIF socket
- Easy to use programming PICprog2006 software included
- Size: 5.3" L x 2.6" W
- On-board "In Circuit Programming" DSUB-9 connector
- Power supply: 15VDC @ 300mA adapter (recommend P/N 190001, pg 125)
- Supports over 50 PIC products. Visit [www.vellemanusa.com](http://www.vellemanusa.com) for details

**System Requirements:** IBM compatible PC, Pentium or better, Windows® 98/ME/NT/XP/Vista, CDROM drive, RS-232 port

Part No.	Mfr. Part No.	Description	1	5
2006844	VM134	PIC™ programmer board .....	\$89.95	\$84.95

## microEngineering Labs USB PIC Programmer

More than 300 PIC microcontrollers are supported and support for future devices can be added via FLASH firmware updates.

Intelligent voltage regulation allows programming of the new, low voltage PIC® MCUs as well as standard 5V devices.



- Dual color indicator shows ready/busy states
- Full featured, command-line operation
- Fast full speed USB data transfer
- Standard USB cable (Type A male to Type B male)
- HID interface
- Automatic Vdd and Vpp adjustment for different PIC MCUs
- In-Circuit Serial Programming (ICSP) connector for interface to project board
- Compatible with microchip HEX format files & all programming adapters

Part No.	Mfr. Part No.	Description	1	5
1942382	U2	USB PIC programmer	\$89.95	\$84.95
1942606	840Z	ZIF adapter (8-40 pins)	39.95	37.95

\* MicroEngineering Labs Programmers Available Online — Enter Web Code: EAT

All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.

## microEngineering Labs EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The BASIC programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 11.

- Simple installation with parallel port (printer) interface
- Command line operation for automated, non-interactive programming

Requires: Two 9V batteries or AC adapter (below)



Part No.	Description	1	5
132679	EPIC Plus PICmicro programmer .....	\$54.95	\$49.95
136397	8/18/20-pin ZIF adapter .....	29.95	26.95
132610	40/28-pin ZIF adapter .....	29.95	26.95
162317	AC wall adapter (16VDC/500mA, details on pg 125) .....	9.95	8.95
67257	6' DB25 cable (details on pg 188)  .....	7.95	6.95



## EPROM Eraser

- Erases 1 chip in 15 min. or 8 chips in 21 min.
- Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1"
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm<sup>2</sup>



Part No.	Description	Size (L" x W" x H")	Weight	1	5
15712	8-chip eraser	9.0 x 3.7 x 2.6	2.3 lbs. ....	\$169.95	\$159.95
34382	Lamp for 15712	—	0.6 oz. ....	39.95	34.95



## IC Programming Solutions

\* Web Code: EET



EE Tools' main goal is to develop and manufacture the most sophisticated, reliable, and fast stand-alone and PC based device programmers which will surpass those introduced by the manufacturers from the Far East. All products are CE approved, and design.

- All products made in the USA
- Free software updates for life
- CE approved
- Over 100 adapters available @ [www.Jameco.com](http://www.Jameco.com)



### EeRom-8U USB Port 8-bit Rom Emulator

- 8-bit Rom Emulator
- Input voltage: 5V, 3.3V w/o adapter
- Supports: EPROM, Flash, SRAM

Part No.	Description	Price
2110203	Emulator .....	\$294.95
2110220	28-pin PLCC adapter .....	84.95
2110211	32-pin PLCC adapter .....	84.95

### ChipMax Low Cost Universal Programmer

- USB interface
- 40-pin ZIF socket
- Input voltage: 5V
- No. of devices supported: 8,000+
- Supports: Flash EPROM, EEPROM, EEPROM, Microcontroller, PALCE, GAL

Part No.	Mfr. Part No.	Price
207731	CHIPMAX .....	\$294.95

### ChipMax2 Low Cost Fast Universal Programmer

- USB interface
- 48-pin ZIF socket
- Input voltage: 5V, 3.3V, 2.7V, 1.8V
- No. of devices supported: 15,000+
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, GAL, FPGA, MCU

Part No.	Mfr. Part No.	Price
694866	CHIPMAX2 .....	\$544.95

### TopMaxII High Speed Universal Programmer

- USB 2.0 PC interface
- 48-pin ZIF socket
- Input voltage: 5V, 3.3V, 1.8V
- No. of devices supported: 20,000+
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, PAL, GAL, FPGA, MCU

Part No.	Mfr. Part No.	Price
2110158	TOPMAXII .....	\$794.95

### Adapters for Universal Programmers

\* Web Code: IPS

Part No.	Mfr. Part No.	Price	Part No.	Mfr. Part No.	Price
2110166	32-pin PLCC adapter .....	\$79.95	2110182	16-pin TSOP adapter .....	\$79.95
694840	44-pin PLCC adapter .....	114.95	2110174	48-pin TSOP adapter .....	134.95
2110191	20-pin SOIC adapter .....	79.95			

Data Sheets Are Available for Most of the Products We Carry. Find Them Easily on the Product Specification Page. [www.Jameco.com](http://www.Jameco.com)



## Full Line of Electronic Programmers & Adapters



- On-board FPGAs allow for fast programming speeds
- Developed & manufactured in the USA
- Lifetime software upgrades

\* Web Code: EET



Visit [www.Jameco.com](http://www.Jameco.com) for Complete Selection

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# PC & Laptop Power Supplies

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## 150 to 500-Watt PC Power Supplies



† 80 Plus Energy Efficient



### AT Power Supplies

\* Web Code: HCA

Part No.	Mfr.	Mfr. Part No.	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	Pricing		
										1	5	25
2081764	Magic	MPI-925A*	200	+5/20, +12/7.5, -12/1, -5/1	85-265 @ 50-60	3-prong AC receptacle (P/N 38050, pg 133)	UL/CUL/TUV/CE	6.0 x 5.6 x 3.4	3.3	\$39.95	\$35.95	\$31.95
249754	Sparkle	SPI-300G	300	+5/30, -5/0.5A, +12V/12A, -12V/0.5A	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 133)	UL/CSA/TUV FCC	5.5 x 5.9 x 3.4	3.5	64.95	58.95	52.95
2081861	Pacific Power	KPP400-29	400	+5/42, +12/14, -5/1, -12/1	100-240 @ 50-60	3-prong AC receptacle (P/N 38050, pg 133)	CUL/TUV/CE	5.5 x 6.0 x 3.5	4.6	64.95	57.95	49.95

### ATX Power Supplies

Part No.	Mfr.	Mfr. Part No.	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	Pricing		
										1	5	25
1955941	Magic Power Tech	MPI-806H*	60	+3.3/6, +5/8, +12/3, +5VSB/0.75, -12/0.5	90-264 @ 47-63	Connector, CN1-CN3	UL/CB/TUV	5.0 x 3.1 x 1.5	1.0	\$89.95	\$84.95	\$79.95
2081887	Enhance	ENP-0185T	150	+3.3/7, +5/12, +12/5, +5VSB/0.8, -5/0.2, -12/0.3	115-230 @ 50-60	3-prong AC receptacle (P/N 38050, pg 133)	CUL/TUV/CE	7.5 x 3.25 x 1.7	2.5	24.95	22.49	19.95
421657	Powertronic	PK-6180DT3	200	+3.3/14, +5/22, +12/6, +5VSB/0.1, -5/0.5, -12/0.8	115/230 @ 47-63 switchable	3-prong AC receptacle (P/N 38050, pg 133)	UL/CUL/TUV	6.0 x 5.6 x 3.5	3.3	19.95	17.95	15.95
2081879	Pacific Power	KPT230C-4A	230	+3.3/15, +5/25, +12/9, +5VSB/1A, -5/1, -12/1	100-240 @ 50-60	3-prong AC receptacle (P/N 38050, pg 133)	CUL/TUV/CE	8.0 x 4.0 x 1.6	3.0	22.95	20.49	18.49
319994	3Y Power Technology	AP-1250-1112*	250	+3.3/20, +5/25, +12/12, -5VSB/3, -5/0.5, -12/0.5	100-240 @ 50-60	3-prong AC receptacle (P/N 38050, pg 133)	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6 (1U)	2.9	19.95	17.95	15.95
2110422	Sparkle	SPI2501UH-B204R†	250	+3.3/16+5/18, +12v1/16, +12v2/16, -12/0.8, -5/0.3, +5VSB/2.5	90-264 @ 47-63	3-prong AC receptacle (P/N 38050, pg 133)	UL/CSA/TUV/CE/CB†	7.5 x 3.9 x 1.6 (1U)	2.9	69.95	62.95	59.95
427928	Seasonic	SS-300SFD Active PFC†	300	+3.3/20, +5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2	90-264 @ 47-63 switching	3-prong AC receptacle (P/N 38050, pg 133)	UL/CUL/TUV/CE	5.1 x 4.9 x 2.5	2.7	54.95	53.55	49.95
2110238	Sparkle	ATX-300PA-B204R†	300	+3.3/20, +5/20, +12v1/16, +12v2/16, -12/0.3, +5VSB/2.5	115 @ 57-63, 230 @ 47-53	3-prong AC receptacle (P/N 38050, pg 133)	UL/CSA/TUV/CB	5.5 x 5.9 x 3.4	3.3	39.95	36.95	32.95
1810136	Sparkle	FSP300-601U†	300	+3.3/20, +5/25, +12/16, -5/0.3, -12/0.8, 5VSB/2	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 133)	UL/CUL/VDE/CE	8.3 x 4.0 x 1.6 (1U)	3.3	24.95	23.95	22.95
2077482	Emacs	APS-5300F-RV2*	300	+3.3/28, +5/30, +12/10, +5/0.85, -5/1, -12/1	115-230 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 133)	UL/CSA/CE/TUV	6.0 x 5.5 x 3.4	3.3	24.95	22.49	19.95
2110254	Sparkle	ATX-400PA-B204R†	400	+3.3/20, +5/14, +12v1/18, +12v2/18, -12/0.3, +5VSB/2.5	115 @ 57-63, 230 @ 47-53	3-prong AC receptacle (P/N 38050, pg 133)	UL/CSA/TUV/CB	5.5 x 5.9 x 3.4	3.8	44.95	42.95	41.95
308814	Powmax	LP6100D*	400	+3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2	115/230 @ 60 switching	3-prong AC receptacle w/ 6' power cord	UL/CUL/TUV/CE	5.9 x 5.6 x 3.4	3.5	49.95	44.95	39.95
2110449	Sparkle	SPI4601UG-B204R†	460	+3.3/20, +5/20, +12v1/16, +12v2/16, +12/16, -12/0.5, +5VSB/2.5	90-264 @ 47-63	3-prong AC receptacle (P/N 38050, pg 133)	UL/CSA/CUL/TUV/CE/CB†	8.7 x 3.9 x 1.6 (1U)	3.7	109.95	104.95	99.95
422094	Seasonic	SS-500HT Active PFC†	500	+3.3/30, +5/30, +12/17, +12/16, -12/0.8, +5VSB/2	90-264 @ 47-63	3-prong AC receptacle (P/N 38050, pg 133)	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	5.0	99.95	89.95	79.95
2110457	Sparkle	SPI500ACH8-B204R†	500	3.3/24, +5/214, +12v1/18, +12v2/18, -12/0.5, +5VSB/2.5	90-265 @ 47-63	3-prong AC receptacle (P/N 38050, pg 133)	UL/CSA/TUV/CB	5.5 x 5.9 x 3.4	3.6	59.95	56.95	53.95

\* See photo above

† Comes with SATA ready connector

†† 80 Plus energy efficient

## Laptop Regulated Table-Top Power Supplies (3-Wire AC Input)

\* Web Code: LRT



◆ Polarity 2 (center positive) Female(F)



148267

2099411

Part No.	Manufacturer	Mr. Part No.	Volts (VDC)/Current (A)	ID x OD mm Female/Male: Polarity ◆	Input VAC@Hz	Power (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
148267	ACBell	AP13AD02	+19/3.42	2.5mm x 5.5mm rt. angle F 2	100-240@50-60	65	No	4.2 x 1.8 x 1.1	6'/ 6'	0.8	UL/CUL/TUV/CE	\$36.95	\$32.95	\$29.95	\$26.95
2099411	Sparkle Power	FSP090-DMCBI	+19/4.74	7 ea. right angle plugs F 2	100-240@50-60	90	No	5.3 x 2.3 x 1.3	6'/ 5'	0.7	UL/CUL/TUV/CEC	59.95	53.95	47.95	42.95
2099761	Hi-Capacity	AC-C10K	+19/8.0	2.5mm x 5.5mm F 2	100-240@50-60	120	Yes	6.6 x 2.4 x 1.5	4'/ 6'	1.0	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95

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◆ RoHS compliant product   + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## Interface, Graphic & Sound Cards

**★ Web Code: VBB**



172006



344903



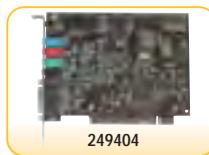
155221



364111



291901



249404

### Serial Interface Cards

Part No.	Manufacturer	Product No.	Bus Type	Ports	Connectors	Description	1	10
172006	Dolphin	99467 	PCI	2	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male	\$34.95	\$30.95
171548	Various	99468 	PCI	4	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C550	69.95	59.95
171661	Various	99469 	PCI	8	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650	89.95	84.95
344903	SYBA	SD-PCI-1S	PCI	2	DB9	32-bit PCI bus, dual DB-9 male, Nm9835CV chipset.	27.95	24.95

### Network Interface Card

155221	3-COM	3CR990B-FX-97	PCI	1	FDD1	100BASE-FX Secure fiber network interface card	\$24.95	\$19.95
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### Video Graphics Card

364111	ATI	109-54100-00	PCI	2	HDD15	8MB graphics accelerator, Rage LT PRO AGP chipset, 7-pin TV-out and DFB connectors, Windows® 98 and NT4.0 compatible.	\$24.95	\$22.45
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### SCSI Cards

149294	Various	CI-2020	ISA	—	50-pin F	DOS, Windows® NT/95, OS2 Netware, SCO UNIX compatible, internal and external SCSI-II connectors, fast SCSI II	\$24.95	\$22.95
191513	Adaptec	AHA-2940U2B	PCI	2	68-pin F	AIC-7890AB chipset, Windows® 95/NT, Netware, OS/2 compatible, Ultra II SCSI internal/external Ultra II SCSI 68-pin connectors, ultra SCSI II	39.95	34.95

### I/O Controller Card

291901	—	MCT-IDEFH-2	ISA	—	Multiple	16-bit interface, supports 2 IDE hard drives up to 528MB and 2 floppy drives from 360kb to 1.44Mb, jumper selectable for enabling and disabling ports	\$4.95	\$4.49
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### Sound Card

249404	Creative Labs	CT4830	PCI	—	Multiple	2-audio line-out (mini stereo 3.5mm F), 1 microphone input (mini phono 3.5mm F) 1-audio line-in (mini stereo 3.5mm F) and 1 game port (DB15F)	\$24.95	\$22.45
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## Computer Switchboxes

**★ Web Code: CAK**



310842



149391



132249



310834



134017



79126



79142



20095



310818

### KVM Switchboxes

Part No.	Mfr.	Product No.	Description	Connectors		Size (L" x W" x H")	Wt. (lbs.)	1	5
310842	—	2-PRT KVN-USB	2-way KVM switchbox (2 PCs to 1 keyboard/mouse/monitor)	User connectors: PS/2 female for keyboard & mouse; HDD15 female for monitor to PC connectors: two HDD15 male for monitor, two USB-A male; two 3.5mm jack		2.9 x 2.7 x 1.1	1.5	\$19.95	\$17.95
149391	ATEN	CS-114A	4-way KVM switchbox (4 PCs to one user)	DB9 serial female / PS/2 keyboard & mouse; recommend P/N 204062 (see web) for PS/2 cable. Includes manual and power supply		10.0 x 7.0 x 3.0	7.1	119.95	107.95
132249	ValuePro	40H1-25602	2-user switchbox (1 PC to 2 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB9 male). P/N 66174 (DB15HD M-M cable); P/N 132346 (DB9 F-F cable) pg 188		7.5 x 5.3 x 2.8	1.6	12.95	11.95
310834	Various	KS-104	4-way KVM switchbox (4 PCs to 1 user)	PS/2 female for keyboard and mouse; HDD15 female for monitor, recommend P/N 202180 pg 124 for power supply		7.4 x 1.3 x 2.9	7.1	44.95	42.95
134017	Various	40H1-25604	4-user switchbox (1 PC to 4 users)	5-pin DIN male for keyboard, HDD15 female for monitor, DB9 male for mouse use P/N 66174 HDD15 M-M cable for monitor; P/N 132346 pg 188 (DB9 F-F cable for mouse)		7.5 x 2.8 x 5.3	2.3	19.95	17.95

### Miscellaneous Computer Switchboxes

79126	ValuePro	40D1-10602	2-serial port switchbox	DB9 female (2-ports to 1PC)		6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95
79142	ValuePro	40R1-01602	2-PC RJ-11 switchbox	RJ-11 6P6C (fax/modem/telephone to 2PCs)		6.0 x 4.8 x 2.5	1.2	8.95	7.95
20095	ValuePro	40D3-17602	2-port switchbox	DB25 female (2PCs to 1 printer)		6.0 x 5.8 x 2.3	1.4	10.95	9.95
310818	—	USB-2PORT	2-way USB switchbox	1 USB-B female; 2 USB-A female		5.1 x 3.7 x 1.8	2.5	8.95	7.95



## More Information Online

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# Mice, Keyboards, Keypads & PC Accessories

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

## Mice & Mouse Pads

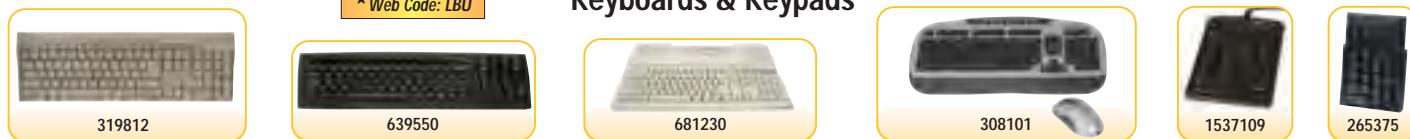
\* Web Code: MCM



Part No.	Manufacturer	Mfr. Part No.	Type	Interface	Description	Size (L" x W" x H")	1	10	25
685943	Dell	OW7751	Mech. Ball	USB	3-button with scroll, black	4.8 x 2.5 x 1.5	\$7.95	\$6.95	\$6.25
687746	Cherry	M-5000	Optical	USB-PS/2	3-button with scroll with PS/2 to USB adapter, black	4.6 x 2.6 x 1.5	7.95	6.95	6.25
265471	—	—	Optical	USB	Mini optical mouse	3.7 x 2.2 x 1.3	9.95	8.95	7.95
305082	IOne	Libra-90	Trackball	PS/2	PS/2 trackball with USB adapter, black	5.6 x 4.7 x 1.9	24.95	22.95	19.95
2006650	IOne	MSM9UP-BLK	Optical	USB-PS/2	3-button with scroll, black	4.5 x 2.3 x 1.5	8.95	7.95	6.95
2006668	IOne	MSM9UP-WHT	Optical	USB-PS/2	3-button with scroll, white	4.5 x 2.3 x 1.5	8.95	7.95	6.95
265447	BenchPro	32022378	Optical	PS/2	Wireless, 5 button optical scrollpro w/ PS/2 to USB adapter	4.9 x 3.0 x 1.6	16.95	15.95	14.95
121363	—	KP-01	Mouse pad	—	Mini mouse pad, blue	7.0 x 5.5 x 1.0	.69	.59	.49
1951001	—	MP-ATT	Mouse pad	—	Mouse pad (2" x 3.5", 2.75" x 5" window slots)	9.5 x 7.5 x 1.2	.69	.59	.49

\* Web Code: LBU

## Keyboards & Keypads



Part No.	Mfr.	Mfr. Part No.	Interface	Description	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
455603	Powmax	KM-2501	PS/2	104-key soft touch w/ multimedia & 12 function keys.	17.5 x 6.0 x 1.2	1.8	\$7.95	\$6.95	\$5.95
319812	PC Concepts	ICIA	PS/2	107-key soft touch keyboard w/ programmable function keys, software included	17.5 x 5.7 x 0.8	1.8	7.95	6.95	6.25
<b>354950</b>	Compaq	KB-9965	PS/2	107-key soft-touch keyboard w/ 12 function keys	18.5 x 6.5 x 1.4	1.3	4.95	4.49	3.95
639550	IOne	Scorpius-2KB	PS/2	103-key soft touch keyboard, Windows® 98SE/2000/ME/XP compatible (black)	15.9 x 6.5 x 1.3	2.1	39.95	35.95	31.95
681230	NMB	RT915CTW	PS/2	104-key tactile keyboard w/ 12 function keys w/ built-in speakers	18.5 x 10.0 x 3.2	2.5	9.95	8.95	7.95
454483	Powmax	HB5103	PS/2	Black 3-in-1 internet kit 104-key optical mouse, speakers	17.1 x 6.12 x 1.0	2.24	12.95	11.49	10.95
319661	IOne	Gemini-M1	PS/2	104-key soft touch wireless keyboard w/ 12 multimedia function keys and 2-butt optical mouse, batteries included	17.6 x 7.5 x 1.6	2.2	12.95	11.49	9.95
308101	Labtech	967360-0403	PS/2	104-key wireless RF keyboard and 3-button optical scroll-mouse multimedia hot-keys	18.0 x 8.7 x 1.6	4.5	26.95	24.95	22.95
1537109	Arctic	25551	USB	18-key tactile keypad	4.3 x 3.0 x 0.5	0.2	12.95	11.49	9.95
265375	IOne	Scorpius-22RB	Serial	22-key tactile keypad w/ 2-key rollover and auto repeat function	6.2 x 4.2 x 1.3	0.8	39.95	35.95	31.95

Blue Part No. = Limited Quantity Available

## CPU Heat Sinks with Fan

\* Web Code: MBG



Part No.	Description	Size (H" x W" x D")	1	10
684748	Heat sink w/ fan, socket 7 Pentium®	1.02 x 2.60 x 2.30	\$2.95	\$2.65
319185	Heat sink w/ fan, socket 7 PIII	1.40 x 2.62 x 2.30	3.75	3.49
1945313	Heat sink w/ fan, Pentium® 75-133MHz	2.07 x 2.05 x 1.43	4.95	4.49
206244	Heat sink w/ dual fan, SECC II Pentium®	1.24 x 1.96 x 5.25	7.95	6.95
319951	Heat sink w/ dual fan, for PIII slot 1	2.00 x 4.90 x 8.50	5.95	5.49
661087	Heat sink w/ fan, socket 370 PIII	2.36 x 2.19 x 1.54	5.95	5.49
645482	Heat sink w/ fan, socket 370 PIII	1.30 x 2.05 x 1.97	11.95	10.95
190545	Heat sink w/ fan, socket 370 PIII	2.00 x 2.32 x 2.37	10.95	9.95

## Legacy 3.5" Hard Disk Drives

\* Web Code: SAW

Part No.	Capacity	Description	Warranty	1	10
151036	3.2GB★	EIDE/Ultra DMA33	1 year	\$34.95	\$31.45
151044	4.3GB★	EIDE/Ultra DMA33	1 year	49.95	44.95
146333	2.5GB★	EIDE/FAST ATA-2	1 year	29.95	26.95
124978	1.27GB★	IDE	1 year	29.95	26.95

★ Pull = Extra Savings

## Disk Drive Mounting Rails



Part No.	Description	Wt. (lbs.)	1	10
34323	Mounting rails (2)	0.04	\$1.95	\$1.49

## 3.5" Hard Drive Bracket Short

\* Web Code: SDW

Part No.	Product No.	Color	1	10
1950745	G/S435	Silver	\$4.95	\$4.49

\* Video Text Modules Available Online — Enter Web Code RAJ

RoHS compliant product   This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## Monitor/Mouse/Keyboard Cable



HDDB15 male/female for monitor,  
5-pin DIN male/female for keyboard  
and DB9 male/female for mouse.

Part No.	Product No.	Length	1	5
141284	G/S(KVM02)	6'	\$9.95	\$8.95

## Replacement Switches for AT-Style Computer Cases

### PC Pushbutton Switch

- Contacts rated at 250VAC
- Current: 8A
- Alternate action double pole switch

• UL/CSA/VDE approved   • Size: 0.9" L x 0.7" W x 0.9" D



### PC Rocker Switch

- For mini-tower cases
- Current: 10A
- Contacts rated at 250VAC
- DPST
- UL/CSA approved
- Size: 0.9" L x 1.2" W x 1.4" D



Part No.	Product No.	1	10	100
127028	GRK-618A	\$1.49	\$1.25	\$0.95

## Business Card CD-R Kit



Differentiate yourself or your business from others. This kit includes 12 50MB capacity CD-R and sleeves, 16 labels and label design software. A great way to promote your business in trade shows and exhibits. Easy to carry and cost-effective.

Part No.	Description	1	10
249308	Do-It-Yourself Business Card CD-R kit	\$2.49	\$2.25

## 2, 4, 6, 7, 8 & 12-Outlet Surge Protectors

### Isobar Premium Surge Protectors

- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- 4 & 6-outlet protectors: 6' cord; 8 & 12-outlet protectors: 12' cord
- UL 1449 and 1283 listed
- Lifetime warranty
- 2114669: 2-line telephone/DSL protection
- 139686: Fits 19" rack mount
- Size: 18981: 5.8" L x 3.5" W x 2.5" H;  
2114651: 7.0" L x 3.5" W x 2.5" H; 2114669: 7.0" L x 3.5" W x 2.5" H
- 19001: 9.0" L x 3.5" W x 2.5" H; 139686: 17.5" L x 4.0" W x 1.8" H

\* Web Code: CAC



19001



139686

**isobar®**



Part No.	Mfr. Part No.	Joules	Description	Wt. (lbs.)	1	5
18981	ISOBAR4	2200	4 outlet, 2 isolated filters (6')	2.4 .....	\$49.95	\$44.35
2114651	ISOBAR6U	2350	6 outlet, 3 isolated filters	2.9 .....	74.95	69.95
2114669	ISOTEL6U	2850	6 outlet, 3 isolated filters	3.3 .....	79.95	71.95
19001	ISOBAR8U	2350	8 outlet, 4 isolated filters (12')	3.5 .....	74.95	66.95
139686	IBAR12RM	750	12 outlet, 2 isolated filters (15')	4.7 .....	129.95	122.95

### Super 7 Standard Surge Protectors – 7 Outlet

- \$75,000 Ultimate Lifetime Insurance
- Up to 42,000 amp spikes
- Effective spike and noise suppression w/ diagnostic LEDs
- 2114677: 1-line telephone/DSL protection

Part No.	Mfr. Part No.	Joules	Size (L" x W" x H")	Wt. (lbs.)	1	5
124337	Super7	2350	10.5 x 2.5 x 1.5	1.6 .....	\$19.95	\$17.95
2114677	Super7tel	2470	10.25 x 2.75 x 1.5	2.2 .....	34.95	31.49

### 12-Outlet Power Strip

- No surge suppression
- Lighted/protected switch
- 15' cord
- Size: 36" L x 1.5" W x 1.5" D

Part No.	Mfr. Part No.	Electrical Rating	Outlet Spacing	Wt. (lbs.)	1	10
2114642	PS3612	1800W (15A)	2.638"	3.8 .....	\$52.95	\$48.95

### 2-Outlet Travel Surge Protectors

- 2114618: \$50,000 Ultimate Lifetime Insurance  
 • Retractable plug    • Modem/fax protection  
 2114626/2114634: \$100,000 Ultimate Lifetime Insurance  
 • In-line connection for notebooks  
 • Modem/fax protection with splitter (1-line in/2-lines out)

Part No.	Mfr. Part No.	Joules	Description	Size (L"xW"xH")	Wt. (lbs.)	1	5
2114618	Traveler	1050	2 outlet w/ phone	1.75 x 2.5 x 3.5	0.3 ....	\$17.95	\$15.95
2114626	TravelerC6	1130	3-prong, in-line	1.0 x 4.25 x 1.75	0.2 ....	32.95	29.95
2114634	TravelerC8	1130	2-prong, in-line	1.0 x 4.25 x 1.75	0.2 ....	24.95	22.95

## PC Accessories

### IDE HDD Enclosure

- Removable enclosure for 3.5" drive bay
- Includes insert and hardware
- Size: 5.8" W x 8.9" D x 1.6" H
- Weight: 1.31 lbs.



Part No.	Product No.	1	5
319775	DT51PC	\$7.95	\$6.95

### PC Speakers

- 3.5mm male stereo plug
- Size: 4.7" H x 3.0" W x 4.0" D



Part No.	Mfr. Part No.	1	5	25
311079	5065-5746	\$3.95	\$3.55	\$2.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

## 6 & 8-Outlet Surge Protectors

20175: 6-outlet; 4' cord

- Metal power strip
- Size: 12.3" L x 2.4" W x 1.3" H

2116485: 6-outlet; 4' cord

- Heavy-duty power cord (14AWG x 3)

• Size: 9.5" L x 1.7" W x 1.4" H

• Clamping voltage: 400V

• Max. surge volt.: 6500V

• RESET/OFF switch with built-in 15A circuit breaker

2075647: 6-outlet; 6' cord

- Rating: 15A/125VAC/1875W

• Clamping volt.: 330V

• Size: 13" L x 2.1" W x 2.3" H

• Expands from 13" to 18" to fit bulky adapters; each segment expands separately

2079411: 8-outlet; 6' cord

- Lifetime warranty \$250,000 connected equipment

• Size: 12.5" L x 5.0" W x 1.5" H

\* Web Code: XAR



20175



2116485



2075647



2079411

## 6-Outlet Power Tap Adapter w/ Surge Protection

- Right angle jacks
- Grounded outlets
- 180 joules

• Surge protection across line and neutral, line and ground

• Surge protection circuit good LED indicator

• 15A; 125VAC; 1875W

• TVSS: 330V

\* Web Code: XAR



Part No.	Mfr. Part No.	Description	1	10	100
2082214	YE-08A	6-outlet wall surge protector	\$5.95	\$5.49	\$4.95

## 6-Outlet Power Strip w/ Personal Sensor

An energy saving control system that provides maximum surge and noise suppression while keeping plug load equipment off when there is no occupancy. Turns all controlled devices on when workspace is occupied, and off when the workspace is unoccupied with the user-defined time delay. 120° coverage up to 300'sq on sensor.

- 6-outlets by sensor
- Two LED indicators for correct wiring and surge protection function
- 15A dry contact relay
- Joule rating: 360 joules
- Initial clamping voltage: 200V
- Sensor can be mounted with double-backed tape to the bracket provided
- 4' power cord & 9' cable on sensor
- Electrical rating: 120VAC, 15A, 60Hz
- UL1449 rating: 330V
- Maximum surge amperage: 27,000A
- UL/CUL approved
- Size: 12.0" L x 2.2" W x 1.7" H

Includes: Double backing tape, cubicle divider-rail bracket

Part No.	Mfr. Part No.	Description	1	5	25
2100187	IDP-1000	6-outlet power strip w/ sensor	\$39.95	\$35.95	\$31.95

## Hands-Free Condenser Microphone

\* Web Code: GCP



Part No. Product No. 1 5 25

135248 MP-9108-R \$4.95 \$4.49 \$3.95

## Clip-On Lapel Microphone

\* Web Code: GCP



Part No. Cord Length 1 5 25

2078207 3' \$2.49 \$2.25 \$1.95



We Ship the Same Day!

All orders placed before 6PM EST Monday through Friday will be shipped the same day.

## **ATEN** RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.
- Data rate: 1MB/second
- Controlled by RTS signal
- 4-wire full duplex or 2-wire half duplex
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS-485: terminal block and RJ11 connections
- RS-232: DB25 female connector • Input: 110VAC
- Weight: 0.9 lbs. • One-year warranty

197931: Port powered (power adapter not included)  
• Data rate: 100kbps

122956: Features RS-485SI; optical isolation: 2000V

Part No.	Mfr. Part No.	1	5
117701	RS-232-485/422	\$49.95	\$44.95
197931	RS-232-485/422	59.95	53.95
122956	RS-232-485/422 OPT ISO	89.95	80.95



117701

## **ATEN** RS-232 to RS-485/422 Bidirectional Converter

- Automatic internal RS-485 bus supervision
- No internal flow control for RS-485 required
- Point-to-point, multi drop, and simplex/duplex link selectable
- Supports transfer speeds of up to 115.2 Kbps
- Supports up to 32 receivers to be set in multi drop installations
- Extends up to 4000 feet through networking cables
- Maximum 2000V Isolation Protection

Part No.	Mfr. Part No.	1	5
2115733	IC485AI	\$99.95	\$89.95



## **ATEN** Bidirectional Non-Buffered Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake Xon/Xoff; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- One-year warranty
- Stop bits: 1 or 2 • Baud rate: 300 to 38,400bps
- Weight: 0.8 lbs. • Size: 4.0" L x 2.5" W x 1.0" H

Includes: AC adapter (9VAC @ 200mA) and manual

Part No.	Mfr. Part No.	1	5
116935	5XP320	\$34.95	\$32.95



\* Bidirectional Converters Online — Enter Web Code KEM

## **ATEN** Bidirectional Serial-to-Parallel Converter

115.2kbps, 512KB Buffer

- One DB25 female connector, one Centronics 36-pin male connector • Fully compatible w/ Win® 95
- Baud rate: 300bps – 115,200bps
- FCC class A certified, CE certified
- LED Indicator for parallel busy status • DCE/DTE selectable
- Stop bits: 1 or 2

Includes: 9VAC @ 200mA adapter

Part No.	Mfr. Part No.	Size (L" x W" x H")	Wt. (lbs.)	1	10
182983	5XP3254	3.8 x 2.4 x 1.0	0.8	\$45.95	\$41.95



RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## Serial ATA to IDE Converter

This serial ATA to IDE converter allows standard parallel ATA hard disk drives, CD-ROM, CD-RW, DVD-ROM, DVD + RW, to be used with serial ATA PCI cards or motherboards with serial ATA ports and meet the specification of serial ATA 1.0 interface.



- Compliance with Serial ATA Gen. 1.0
- Master/slave device emulation support
- Supports PIO mode 0 ~ 4, Ultra DMA mode 0 ~ 7, UDMA transfer rates of up to 150Mbps, ATAPI command set and 48-bit LBA addressing

System Requirements: PC with available Ultra ADA hard disk (IDE) and available Serial ATA host port

Part No.	Mfr. Part No.	1	5
1944661	AD3300R	\$19.95	\$17.95

## AverKey Pro PC-to-TV Converter Box

- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible w/ Microsoft® Windows® 3.0 and higher
- Weight: 2.2 lbs. • Two-year warranty



System Requirements: VGA-based PC, DOS 3.0 or higher, 640kb RAM or larger

Includes: PC-to-TV converter, adapter, cables & manual

Part No.	Description	1	5
167193	Video signal pro	\$64.95	\$59.95

## USB 2.0 Multi-Plus Card Reader/Writer



- Transfer rate of up to 480Mb/sec.
- Allows data exchange in different slots
- 4 slots support compact flash, IBM Microdrive, SmartMedia, memory stick, SD and MMC devices



Part No.	Mfr. Part No.	1	5
1944716	RU2340R	\$9.95	\$8.95

## USB 2.0 Docking Station

- Connects via USB-A port to your laptop
- Size: 4.8"W x 2.5"D x 1.0"H



System Requirements:  
PC with 75MHz min. Pentium® or equivalent; 16MB of RAM min., available USB-A port, Windows® 98 or later

Part No.	Description	1	5
527822	USB 2.0 dock	\$9.95	\$8.95



Stop bits: 1 or 2

DCE/DTE selectable

• Stop bits: 1 or 2

DCE/DTE selectable

## USB 3.0 2-Port PCI Express Card

Can be inserted into an expansion slot of a computer motherboard to add functionality to a computer system.

- Supports high-speed data transfer rate up to 5 Gbps (10x faster than USB 2.0)
- Supports USB 3.0 hot-swapping and Plug-and-Play capability
- Dimensions: 3.2" L x 2.7" W x 1.6" H



**NEW**  
MARKED IN PINK

**System Requirements:** Windows® 2000, XP, Vista, Windows® 7/Mac® OS 10.3 or higher

Part No.	Description	1	10
2119620	USB 3.0 2-port PCI card  ...	\$39.95	\$35.95

## USB 3.0 2-Port PCMCIA Express Card

- Supports high-speed data transfer rate up to 5 Gbps
- Supports USB 3.0 hot-swapping and Plug-and-Play capability
- Dimensions: 4.6" L x 1.6" W x 0.6" H



**NEW**  
MARKED IN PINK

**System Requirements:** Windows® XP, Vista, Windows® 7/Mac® OS 10.3 or higher

Part No.	Description	1	10
2119638	USB 3.0 express card  ...	\$34.95	\$32.95

## USB 2.0 to SATA/IDE Combo Adapter

Keep the existing IDE drive while at the same time migrating to the new SATA technology, which provides a transfer rate of up to 150Mbps. Any SATA or IDE drives can be turned into an external USB 2.0 storage device.



- SATA 1.0a and USB 2.0 compliant
- Dual-headed IDE connector (4- and 44-pin) plus one SATA connector that supports 2.5"/3.5"/5.5"
- Operates one IDE and one SATA HDD simultaneously
- External power supply provided

**System Requirements:** IBM compatible Pentium® 233MHz, USB, Windows® 98SE/ME/XP, MAC OS 8.6 or later

Part No.	Mfr. Part No.	1	5
2075815	AS1200	\$49.95	\$44.95

## USB 2.0 Ethernet Adapter

A high performance, highly integrated USB 2.0 bus Ethernet controller with embedded 7k x 16 bit SRAM.



- USB 2.0 and 1.1 compliant
- IEEE802.3 (10Base-T) & 802.3u (100Base-TX)
- Supports suspend mode and remote wake up via link-up
- Supports full-duplex and half-duplex operations
- Size: 2.8" L x 2.0" W x 1.3" H

**System Requirements:** IBM compatible Pentium® 233MHz or faster, 64MB or more, USB port available, Windows® XP/2000/Vista 32/64-bit, Mac® OS 10.x

Part No.	Mfr. Part No.	1	5
1944513	AE2201	\$21.95	\$19.95

## USB-A to Mini USB Adapters



- USB 2.0 compliant

### USB-A to Mini USB 5-Pin Female

- Data transfer speed: up to 200 Mbps
- Fully shielded to reduce EMI interference sources
- Dimensions: 1.4" L x 0.7" W x 0.4" H

**NEW**  
MARKED IN PINK

Part No.	Description	1	10
2119769	A male to mini USB .....	\$2.69	\$2.55
2119777	A female to mini USB .....	2.69	2.55

### USB-A to Mini USB 5-Pin Male

- Metal neck with nickel plating
- Dimensions: 2.0" L x 0.7" W x 0.4" H

Part No.	Description	1	10
2119689	A male to mini USB .....	\$1.95	\$1.75
2119697	A female to mini USB .....	1.95	1.75

## USB Gender Adapter

- USB-A female to USB-A female
- Dimensions: 1.5" L x 0.7" W

Part No.	Description	1	10	25
316806	USB-A female .....	\$2.95	\$2.65	\$2.39



## USB 2.0 Active Repeater Cable

This is an active repeater cable and not a passive extension cable for connecting USB devices to your computer. The repeater cable regenerates the USB signal for maximum reliability and performance over extended distances at maximum transfer rates of 480Mbps.



- Repeater cable length: 5m (16.4 ft.)
- Cascaded up to 5 to extend distance to 25m (81 ft.) between USB device and computer
- Regenerates the USB signal for maximum reliability and performance over extended distances

**Requirements:** Desktop or laptop with available USB port, Windows® 98SE/ME/2000/XP or Mac OS X

Part No.	Cross Ref. No.	1	5
2075840	AR2500	\$13.95	\$12.55

## Helping You Find What You Need



Can't find the product you're looking for?

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**1-800-831-4242.**

**JAMECO** ValuePro

## USB 2.0 Cables



- Higher transfer rate up to 480Mbps
- Backward compatible with USB 1.1 products

### USB-A Male to USB-A Male

**★ Web Code: NAV**

Part No.	Description	1	10	25
326474	3' cable beige	\$1.95	\$1.75	\$1.59
229682	6' cable beige	2.05	1.85	1.65
222033	6' cable black .....	2.05	1.85	1.65
229690	10' cable beige .....	2.35	2.09	1.85
229569	10' cable clear .....	2.35	2.09	1.85
222050	15' cable black .....	3.25	2.95	2.65
229577	15' cable clear .....	3.25	2.95	2.65

### USB-A Male to USB-B Male

**Part No.** **Description** **1** **10** **25**

229711	3' cable beige	\$1.95	\$1.75	\$1.59
222608	3' cable black	1.95	1.75	1.59
229585	3' cable clear .....	1.95	1.75	1.59
229730	6' cable beige	2.05	1.85	1.65
222010	6' cable black	2.05	1.85	1.65
229594	6' cable clear	2.05	1.85	1.65
229738	10' cable beige	2.35	2.09	1.85
222018	10' cable black	2.35	2.09	1.85
229607	10' cable clear	2.35	2.09	1.85
229762	15' cable beige	3.25	2.95	2.65
222026	15' cable black	3.25	2.95	2.65
229614	15' cable clear .....	3.25	2.95	2.65

### USB-A Male to USB-A Female

**Part No.** **Description** **1** **10** **25**

326482	3' cable beige	\$1.95	\$1.75	\$1.59
229771	6' cable beige	2.05	1.85	1.65
222068	6' cable black .....	2.05	1.85	1.65
229623	6' cable clear	2.05	1.85	1.65
229789	10' cable beige	2.45	2.19	1.95
222076	10' cable black .....	2.45	2.19	1.95
229631	10' cable clear .....	2.25	1.95	1.75
229797	15' cable beige	3.25	2.95	2.65
222084	15' cable black .....	3.25	2.95	2.65

### USB-A Male

- For use w/ digital cameras, memory card readers, etc.
- Color: black

Part No.	Description	1	10	25
673715	6' mini 4-pin	\$3.95	\$3.59	\$3.39
2081481	5'6" mini 5-pin .....	2.25	1.95	1.65
673694	6' mini 5-pin	2.75	2.45	2.25



## USB 3.0 Cables

### USB-A Male to USB-B Male

- SuperSpeed with 5Gbps data transfer rate
- 10X performance increase over USB 2.0
- Hot syncing
- SuperSpeed USB is backwards compatible with USB 2.0

Part No.	Description	1	10	25
2095218	6' cable black	\$6.95	\$6.25	\$5.49
2095226	10' cable black	7.95	7.15	6.49



\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

## High Speed USB Extender Cable

An active device where the USB signals going in and out of the extension cable are buffered to assure signal quality and adherence to electrical and timing specs.



- Full compliance with USB spec Ver. 2.0/1.1
- Supports 480Mbit/s high speed 12Mbit/s full speed, and 1.5Mbit/s low speed serial data communication
- One upstream port and one downstream port
- Windows® 98 & higher or Mac® OS compatible
- Supports plug & play and hot-swap functions
- USB-A male to USB-A female
- Bus power mode • Length: 16 ft.

Part No.	Cross Ref. No.	1	5
1919174	10U2-24116A	\$18.95	\$16.95

## JAMECO ValuePro Serial Null Modem Cables

- Molded type connectors
- Color: gray

★ Web Code: ABE

181404/180698 Pin outs:  
1 & 6-4, 2-3, 3-2, 4-6 & 1,  
5-5, 7-8, 8-7



180698

181438 Pin outs: 2-2; 3-3;  
5 & 6-4; 7-5; 8-7; 20-6 & 8  
(Serial printer null modem)



180582

180582 Pin outs: 2-2; 3-3;  
4-5 & 6; 5-7; 6 & 8-20; 7-8;  
(Serial printer null modem)



180742

180742 Pin outs: 1-4 & 5;  
2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8



180742

Part No.	Mfr.	Description	1	10	50
181404	ValuePro	6' DB9 F to DB9 F	\$5.55	\$4.95	\$4.49
180698	ValuePro	10' DB9 F to DB9 F	6.75	5.95	5.45
181438	Various	6' DB25 M to DB9 F	5.55	4.95	4.49
180742	ValuePro	10' DB25 F to DB9 F	6.95	6.25	5.65
180582	ValuePro	10' DB25 M to DB9 F	5.95	5.35	4.75

## JAMECO ValuePro IEEE Firewire Cables



1944134

175848

175839

- IEEE-1394 compliant
- Length: 6'
- UL approved
- Male to male

★ Web Code: FAE

Part No.	Cross Ref. No.	Description	1	5	25
1944134	10E4-991-06-C	9-pin/9-pin	\$16.95	\$15.25	\$13.75
175848	10E3-01106-R	6-pin/6-pin	5.95	5.35	4.75
175839	10E3-02106-R	4-pin/6-pin	2.95	2.65	2.39

## JAMECO ValuePro IEEE 488 Cables

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters max. length with a maximum of 15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends.



★ Web Code: EAJ

Part No.	Description	Color	1	5	25
73155	1 meter	Gray	\$39.95	\$35.95	\$31.95
115782	2 meter	Gray	41.95	36.95	32.95
115802	4 meter	Gray	42.95	37.95	33.95

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

## 19" Rack Mount Enclosures

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- 0.12" thick black front panel
- Top, bottom and sides are durable 0.035" steel
- All enclosures have handles except P/N 132813



Includes: Mounting screws

Part No.	Dimensions (In.)			Wt. (lbs.)	Pricing	
	H1	H2	D		1	5
132813A	1.73	1.25	9.75	6.2	\$39.95	\$35.95
132822A	3.46	3.00	9.75	7.9	51.95	46.95
132840A	3.46	2.88	11.75	9.1	54.95	49.95
132848A	5.22	4.75	11.75	10.6	59.95	53.95
132864A	8.56	8.00	13.50	15.4	109.95	99.95

\* Rack Mounts Available Online — Enter Web Code GAT

## 19" Rack Mount Cat 5 Patch Panel

These Cat 5 patch panels feature 110D punch locks that are compatible with KRONE or 110D tools. UL and CUL listed and certified. Cat 5 certified and can be used with T568 A/B installations, color coded blocks for T568 color coding.

★ Web Code: GBK

Part No.	Description	1	5
208785	24-port patch panel	\$24.95	\$22.49

## 19" Rack Mount Enclosure for 14" Monitor

- Clear glass front panel
- Hinged door for accessing monitor controls
- Color: gray
- Size: 19.0"W x 15.1"D x 14.0"H
- Weight: 30 lbs.



Monitor not included

Part No.	Product No.	Price
136021	IAC-C910	\$119.95

## QuickNetwork Install Can

- Type: Install can for QuickNetwork panels
- Feature: power supply and cover installed
- Size: 24"

FutureSmart™

Part No.	Mfr. Part No.	1	5
636607	QN24	\$59.95	\$49.95

## Cable Assemblies



### 75Ω RG-59/U BNC – BNC

★ Web Code: CCA

Part No.	Mfr.	Length	1	10	50
262730	ValuePro	25'	\$6.95	\$6.25	\$5.49
262748	ValuePro	50'	8.95	7.95	7.25

### 75Ω BNC – BNC and Jack-to-Plug

Part No.	Mfr.	Length	1	5
1581409	Elyssa	100'	\$24.95	\$22.45

### 75Ω RG-59 F-Type

Part No.	Mfr.	Length	1	10
85585	ValuePro	3'	\$4.95	\$4.45

## Cabinet Mounting Plate for 19" Cabinet

- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Size: 19.0"W x 15.8"D x 3.5"H
- Made of industrial grade steel and aluminum

Part No.	Product No.	1	10
149500	UP02	\$34.95	\$31.95

## JAMECO ValuePro USB-A Cables w/ Bracket

- Supports data transfer rates of 12Mbps
- Allows connection of two devices
- Dual USB-A female connectors • 8" long

Part No.	Description	1	10	25
144813	Female panel mount	\$4.25	\$3.75	\$3.25
319652	Male panel mount	1.49	1.35	1.19

## USB-to-DB9 Serial Adapters

- USB-A to DB9 male
- Length: 13"
- Supports automatic handshake mode
- Over 230 kbps data transfer rate
- 96 byte buffer each for upstream and downstream data flow
- Works with cellphones, PDA, digital cameras, modems and ISDN terminal adapters

Part No.	Description	1	5
387954	With jack screws	\$18.95	\$16.95
2115346	With thumbscrews	18.95	16.95

## SCSI Cable

- 50-pin header socket ribbon cable SCSI-I

Part No.	Description	1	10	100
32715	18" ribbon cable	\$3.75	\$3.49	\$2.95
12408	4" DB25 M-F	\$4.95	\$4.45	\$3.95

## Ribbon Cable Assemblies

- Metal connector
- 28 AWG flat cable
- 105°C rating
- 300V rating
- Tin-plated contacts

Part No.	Description	1	10	100
12408	4" DB25 M-F	\$4.95	\$4.45	\$3.95
208582	6' DB9 M-F (ValuePro)	4.95	4.45	3.95

## AT/ATX Power Supply Extension Cable

- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply

Part No.	Length	AWG	1	10	100
170238	15"	18	\$8.95	\$7.95	\$6.95

## JAMECO Electronics

### Quick and Easy Search

Our enhanced website offers thousands of datasheets and photos to assist you in finding the products you need.

## 3.5" & 5.25" Disk Drive Power Splitters and Adapters

- IBM PC/XT and higher compatibles

28354/277528/72304:  
Splits 4-line Molex male into 2 females



\*Web Code: OAE

28397:  
4-line Molex male to female



Part No.	Drive	AWG	Length	1	10	100
28354	5.25"	18	5"	\$2.75	\$2.49	\$1.95
277528	5.25"	20	6"	1.55	1.39	1.25
72304	3.5"	22	5"	3.75	3.49	2.95
28397	3.5"	22	3.5"	4.75	4.25	3.79

## CD-ROM Audio Cables

Part No.	Connection from Sound Blaster to	Length	1	10	25
127546	Sony/MPC2	25"	\$1.95	\$1.75	\$1.49
168613	Universal	18"	2.49	2.25	1.95

## Keyboard Adapters

157930/159097:

- Connect AT type keyboards to PS/2
- 5-pin female DIN to 6-pin male mini DIN

189771:

- Connect PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connector



316831: • USB-A female to PS/2 male

• Blue Part No. = Limited Quantity Available

Part No.	Length	Material	1	10	100
159097	1.4"	Metal	\$1.95	\$1.75	\$1.59
157930	1.7"	Plastic/metal	.39	.35	.29
189771	1.7"	Plastic	.95	.85	.75
316831	2.0"	Plastic	1.49	1.35	1.19



## SATA Data Cables

- 0.5m, 7-pin cable
- SATA-I & SATA-II compatible

2114407: eSATA (external)



2114301

Part No.	Connector A/B	Cable Color	1	10	100
2114327	Right angle/right angle	Transparent red	\$2.49	\$2.25	\$1.95
2114386	Right angle/straight	Red	2.65	2.39	2.15
2114301	Straight/straight	Transparent red	2.49	2.25	1.95
2114407	Straight latching/straight latching	Red	2.65	2.39	2.15



## SATA Connectors

These SATA connectors combine hot plug capability with a combination of power and signal contacts in a blindmate design. They are ideal for connecting disk drives to backplanes in servers or networking equipment.

- 55°C to 125°C
- UL94V-0 approved
- Black insulator
- Gold flash over nickel plating

Part No.	Description	1	10	100
2113973	7-pin right angle, SMT	\$.65	\$.55	\$.45
2113990	7 & 15 pin dual vertical, SMT	1.49	1.29	1.09

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



## Macintosh® Printer and Keyboard Cables



Part No.	Mfr.	Description	1	10	100
1944994	Various	40" DIN8M w/ EMI	\$2.95	\$2.49	\$2.25
10604	ValuePro	6' DIN8M	3.95	3.49	3.05
130025	ValuePro	10' DIN8M	4.95	4.45	3.95

## Monitor/Mouse/Keyboard Cable

HDD15 male/female for monitor, 5-pin DIN male/female for keyboard and DB9 male/female for mouse.



Part No.	Product No.	Length	1	5
141284	G/S(KVM062)	6'	\$9.95	\$8.95

## PS/2 & AT Cables

- Non-coiled cable

PS/2 6-Pin Mini DIN, Male to Male



Part No.	Length	Color	1	10	100
177261	2'	Gray	\$1.75	\$1.49	\$1.25
174772	6'	Black	3.95	2.95	2.49
174908	6'	Beige	3.49	2.95	2.49
112628	10'*	Beige	7.95	7.25	5.95
205655	25'	Beige	7.95	6.95	6.25

PS/2 6-Pin Mini DIN, Male to Female

- For cable extension

Part No.	Length	Color	1	10	100
28549	6'*	Beige	\$4.75	\$4.25	\$3.95
111053	10"	Beige	4.95	4.45	3.95

PC/XT/AT 5-Pin Mini DIN, Male to Female

Part No.	Length	Color	1	10	100
114981	6'	Beige	\$1.95	\$1.75	\$1.49

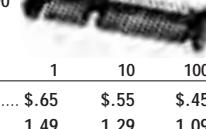
## SATA Disk Drive Power Adapters

• 4-pin Molex to 15-pin SATA



Part No.	Molex	SATA	Length	1	10	100
2114343	5.25 (M)	Straight (F)	6"	\$2.29	\$1.95	\$1.79
2114351	5.25 (M)	Dual straight (F)	6"	2.49	2.29	2.09
2114360	5.25 (F)	Straight (M)	7"	4.95	4.49	3.95
2114378	5.25 (M)	Right angle (M)	6"	2.29	1.95	1.79

\*Web Code: SAT



113990



2113973



2113990

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# Computer Cables & Audio/Video Products

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JAMECO ValuePro

## Computer Cables



### Extension Cables • All lines connected straight through

Part No.	Description	Length (ft.)	Color	1	10	100
2075971	DB9 male-to-female w/ thumbscrews & filter, w/ green connectors	6	Black .....	\$4.49	\$3.95	\$3.49
199639	DB9 male-to-female w/ thumbscrews	6	Black .....	5.25	4.75	4.25
25701	DB9 male-to-female w/ thumbscrews	6	Beige .....	5.95	5.35	4.79
148516	DB9 male-to-female w/ thumbscrews	10	Beige .....	6.95	6.25	5.49
181666	DB9 male-to-male	10	Beige .....	6.95	6.25	5.49
181286	DB15 male-to-male	6	Gray .....	6.55	5.95	5.25
181359	DB15 male-to-female	6	Gray .....	5.49	4.95	4.45
134042	HDDB15 male w/ thumbscrews to female w/ hex nuts	6	Beige .....	4.95	4.45	3.95
66165	HDDB15 male-to-female w/ thumbscrews	6	Beige .....	7.95	6.95	6.25
148532	HDDB15 male-to-female w/ thumbscrews	10	Beige .....	8.95	7.95	6.95
66174	HDDB15 male-to-male	6	Beige .....	6.95	6.25	5.49
148523	HDDB15 male-to-male	10	Beige .....	5.95	5.35	4.79
224267	DB25 female-to-female w/ thumbscrews	6	Gray .....	7.95	6.95	5.95
164291	DB25 male-to-female w/ thumbscrews	3	Gray .....	3.95	3.55	3.05
175291	DB25 male-to-female w/ thumbscrews	3	Black .....	3.75	3.35	2.95
67257	DB25 male-to-female w/ thumbscrews	6	Gray .....	7.95	6.95	5.95
39511	DB25 male-to-female w/ thumbscrews	10	Gray .....	7.95	6.95	6.25
177279	DB25 male-to-female w/ thumbscrews	15	Gray .....	7.95	6.95	6.25
101996	DB25 male-to-female w/ thumbscrews	25	Gray .....	11.95	10.75	9.65
181201	DB25 male-to-female w/ thumbscrews	50	Gray .....	19.95	17.95	15.95
174001	DB25 male-to-male w/ thumbscrews	3	Black .....	4.95	4.45	3.95
401138	DB25 male-to-male w/ thumbscrews	3	Gray .....	3.95	3.49	2.95
65788	DB25 male-to-male w/ thumbscrews	6	Gray .....	7.75	6.95	6.25
39538	DB25 male-to-male w/ thumbscrews	10	Gray .....	6.95	6.25	5.49
179979	DB25 male-to-male w/ thumbscrews	15	Gray .....	5.95	5.25	4.75
67071	DB25 male-to-male w/ thumbscrews	25	Gray .....	9.95	8.95	7.95
181295	DC37 male-to-female	6	Gray .....	5.95	5.35	4.75

### Serial Cables

132346	DB9 female-to-female w/ thumbscrews	6	Beige .....	\$4.95	\$4.45	\$3.95
196366	DB9 female-to-female w/ thumbscrews	10	Beige .....	6.95	6.25	5.49

### Monitor Cable

66157	DB9 male-to-male w/ thumbscrews	6	Beige .....	\$4.95	\$4.45	\$3.95
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### IEEE 1284 Cables

161630	DB25 male-to-male serial	10	Black .....	\$1.95	\$1.75	\$1.59
130067	DB25 male-Centronics parallel 36M	6	Beige .....	2.95	2.65	2.25

## Audio/Video Adapter

- Converts impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
  - Support both NTSC or PAL video signals
  - Signal pairs: video (BNC), CAT pairs 4(RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)
- Includes:** Mounting hardware



Part No.	Description	1	5
220881	BNC/RJ45	\$24.95	\$22.45

Jump from catalog to web	
Quick Search by Web Code	
Web Code	SEARCH
★ Web Code: EPS	

## Wireless FM Audio Transmitter

Connects to any audio output source (i.e. iPod, MP3 player, mobile phone, etc.) to play music through your car stereo system.



**NEW**  
MARKED IN PINK

- Power: 12VDC
- Current: 150mA
- Earphone line: 1.5 meter w/ 3.5 meter phone jack
- Dimensions: 50mm x 30mm x 20mm

Part No.	Description	1	5
2119611	Wireless FM audio trans.	\$19.95	\$17.95

## Web Enabled Catalog

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[www.Jameco.com/More](http://www.Jameco.com/More)

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## 3.5" TFT LCD Test Monitor

This display monitor operates on a standard composite video signal. The unit is also wearable, leaving both hands free to work, and it features an OSD for brightness and contrast. Accessories for this LCD include the Armful Bag, BNC with cable, power cable and battery case.

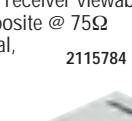


- High resolution (960W x 234H mm dots) flat screen
- Backlight: LED 6 type
- Video signal: NTSC/PAL auto switch
- Power consumption: 2W max.
- Input signal: 1Vp-p, 75Ω
- Power supply: (8) AA batteries or 12VDC adapter
- Outlook size: 96mmL x 98mmW x 25mmD
- Weight: 1.37 lbs. with accessories and package

Part No.	Product No.	1	5
2111898	15-MC04	\$194.95	\$189.95

## 2.4GHz Wireless Audio/Video Transmitter & Receiver

- 4-ch transmitter selectable/4-ch receiver viewable
- Video input/output: 1Vp-p composite @ 75Ω
- Audio input/output: 2Vp-p typical, 2.7Vp-p max. @ 600Ω
- RF impedance: 50Ω
- Size: 3.7W x 2.5"D x 1.3"H



**Includes:** 12V wall adapter, antenna & mounting hardware

### 2115784: Transmitter

- Current consumption: 350mA typical; 650mA at start-up
- Alarm input: TTL/CMOS (level detection)
- Output power: 1 watt



### 2115709: Receiver

- Sensitivity: -82dBm typical
- Current consumption: 250mA typical



Part No.	Description	1	5
2115784	2.4GHz wireless transmitter	\$149.95	\$134.95
2115709	2.4GHz wireless receiver	89.95	79.95
179864	2.4GHz SMA RF antenna	5.95	5.35
2081633	2.4GHz SMA antenna	1.95	1.75

## Dual Page Color Quad Processor

- Signal format: NTSC/PAL color
- Alarm input: 8
- 4-channels with loop
- Display rate: 60fps/50fps
- Video outputs selectable: 1Vp-p 75Ω
- Video inputs: 1Vp-p, 75Ω
- BNC video connectors
- Memory 1024 x 512
- Date time generator

Part No.	Product No.	1	5
638240	15-QC43	\$159.95	\$149.95

## CMU Camera

- Tracks the position and size of a colorful or bright object
- Measures the RGB or YUV statistics of an image region
- Dumps a bitmap showing the shape of the tracked object
- Automatically acquire and tracks the first object it sees
- Physically tracks using a directly connected servo
- Supports multiple CPU boards on one camera for parallel processing

Part No.	Description	1	5
358467	3.5" color LCD monitor	\$129.95	\$119.95



## Color Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420 lines
- Min. illumination: 0.5 lux
- Electronic shutter: 1/120,000 sec.
- 510(H) x 492(V) EIA signal format
- Auto iris lens: DC drive/AES/video drive
- Video output: 1Vp-p, 75Ω • Vertical freq.: 60Hz
- Audio output: 2Vp-p max., 50Ω
- Backlight, auto-gain, and mirror reverse picture switch selectable • S/N ratio: 52dB
- Auto-tracing white balance • 2X digital zoom

**Power Requirements:** 12VDC @ 150mA

Part No.	Product No.	1	5
395461	15-CC25	\$119.95	\$107.95



## Waterproof Tube-Style IR Color Camera

### NTSC Format

- Auto white balance and gain control
- 1/4" CCD image sensor
- Scanning system: 2:1 interlace
- 0 lux w/ 20 IR LEDs
- 880 ~ 940nm infrared wavelength
- 512(H) x 492(V) • 4.3mm lens with F1.8
- For indoor and outdoor use
- 59.94Hz vertical frequency
- 420 horizontal line resolution
- S/N ratio: >48dB • Internal synchronization
- Video output: 1Vp-p, 75Ω • Size: 2.1"Dia. x 3.8"L
- Up to 1/100,000 sec. electronic shutter

**Requires:** 12VDC @ 160mA power supply (recommend P/N 162996, pg 123)

**Includes:** Mounting hardware

Part No.	Product No.	1	5
319901	15-CM25WM	\$169.95	\$149.95



\* Outdoor Camera Enclosures — Enter Web Code LBB

\* Video Accessories — Enter Web Code YBE

## 900MHz Mini Wireless Color Camera

### With Built-In Microphone

- Receiving frequency: 902-928MHz
- Video output: 1Vp-p, 75Ω
- Audio output: 200mVp-p, 10kΩ
- Power consumption: <2W
- Tuning knob on receiver for fine tuning picture

### Includes:

8VDC @ 500mA & 12VDC @ 500mA adapter, receiver with antenna, mounted color camera, 9V battery clip with 1.3mm x 3.5mm female plug

Part No.	Description	1	5
2081781	Mini wireless camera .....	\$59.95	\$53.95



## Mini Dome Color Camera

- 1/4" CCD image sensor
- 512H x 492V
- Video output: 1Vp-p, 75Ω
- NTSC format
- 3.6mm lens with F2.0
- Horizontal line resolution: 330 lines
- Lux: 2

Part No.	Product No.	1	5
171037	15-CD25-1	\$99.95	\$89.95



## Mini Color Camera

- 1/3" OmniVision CMOS
- 510(H) x 492(V), NTSC
- 380 TV lines, 3 lux/F1.2
- Video output: 1Vp-p, 75Ω
- Electronic shutter: 1/50 sec. to 1/100,000 sec.

**Includes:** 8V @ 500mA power adapter, 9V battery clip with 2.1mm x 5.5mm female plug

Part No.	Product No.	1	5
2115362	CM203CA	\$29.95	\$26.95



\* Cameras — Enter Web Code MBB

## SONY® Color CCD Camera

### Sony Chipset

- 1/4" Sony super HAD CCD sensor
- 510(H) x 492(V), NTSC
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Video output: 1Vp-p, 75Ω



**Requires:** 12VDC @ 120mA power supply (recommend P/N 100095, pg 124)

**Includes:** Power/signal cable & mounting hardware

Part No.	Description	1	5
213436	Enclosed color camera .....	\$154.95	\$139.95

## Black & White Camera with Lens

### EIA Format

- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal res.: >350 lines
- Sensitivity: 0.7 lux/F2.0
- Pwr. supply: 12VDC (recommend P/N 162996, pg 123)
- Video output: 1Vp-p, composite video 75Ω
- Power consumption: 110mA • FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)
- S/N ratio: 46dB • Size: 1.3)L x 1.3'W x 1.2'H



Part No.	Product No.	1	5
171029	15-BB13L-1	\$44.95	\$39.95

## Mounting Bracket for Enclosed Camera



- Material: white plastic
- Swivel angle: 360° • Tilt angle: 90°
- For use with enclosed cameras

Part No.	Max Load	Height	1	5
170982	6.6 lbs.	2.0"	\$3.95	\$3.49

## Crystal Oscillators

### R/C Crystal Oscillators



#### Pricing per Crystal Oscillator

Price per crystal	Price
	\$5.95



For other Crystal Oscillators

See pages 39 & 40

### 75 MHz, Compatible with Hitec Receivers

- 1 = FM/Q-PCM dual conversion crystal for DCX
- 2 = FM single conversion for HFS-03MM and HIS-03MK
- 3 = AM single conversion for HP-2NRB & HAS-2MB

Channel	Part No.	Receiver	Part No.	Receiver	Part No.	Receiver
61	396412	1	396711	2	397010	3
62	396421	1	396720	2	397028	3
63	396439	1	396738	2	397036	3
64	396447	1	—	—	397044	3
65	396455	1	396754	2	397052	3
66	396463	1	396762	2	397061	3
67	396471	1	396771	2	397079	3
68	396480	1	—	—	397087	3
69	396498	1	—	—	397095	3
70	396501	1	396800	2	397108	3
71	396519	1	396818	2	397116	3
72	396527	1	396826	2	397124	3
73	396535	1	396834	2	397132	3
74	396543	1	396842	2	397141	3
75	396551	1	396851	2	397159	3

Channel	Part No.	Receiver	Part No.	Receiver	Part No.	Receiver
76	—	—	396869	2	397167	3
77	396578	1	396877	2	397175	3
78	396586	1	—	—	397183	3
79	396594	1	396893	2	397191	3
80	396607	1	396906	2	397204	3
81	396615	1	396914	2	397212	3
82	396623	1	396922	2	397221	3
83	396631	1	—	—	397239	3
84	396640	1	396949	2	397247	3
85	396658	1	396957	2	397255	3
86	396666	1	—	—	397263	3
87	396674	1	396973	2	397271	3
88	396682	1	—	—	397280	3
89	396691	1	—	—	397298	3
90	396703	1	397001	2	397301	3

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\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



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358379



192567



200328



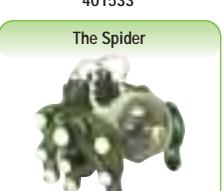
151204



401533



358045



140821



404478



157366



120901



117604



211772



129138



147571



2120815



## Mindstorms NXT 2.0

Create the smartest, strongest and most advanced LEGO robots with this new Lego Mindstorms NXT 2.0. Bigger and revised element assortment of 619 pieces, 16 building and programming challenges for 4 new fun and action packed robot models.

- NXT 32-bit microcontroller with 256k memory
- 2 touch sensors
- 3 interactive servo motors with built-in rotation sensors
- 1 ultrasonic sensor
- Support for Bluetooth, USB 2.0
- Color sensor with triple functionality: color sensor/light sensor/color lamp

\*Educational & Robotic Kits — Enter Web Code ERK



Part No.	Mfr. Part No.	No. of Pieces	Price					
2082644	8547	619 .....	\$279.95					
Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
242923	21-601	Mechanical Wooden Tyrannosaurus kit	—	BEG	1.5 x 3.0 x 6.5	0.9	\$14.95	\$13.45
<b>242915</b>	21-602	Mechanical Wooden Stegosaurus kit	—	BEG	1.5 x 3.0 x 7.0	0.9	<b>9.95</b>	<b>8.95</b>
357341	3-882	Sound-Activated Jungle Robot kit	87	BEG	—	—	<b>24.95</b>	<b>23.95</b>
358379	71107	Six-Legged Soccer Insect Kit with two-channel wired remote control	40	BEG	—	1.1	<b>34.95</b>	<b>31.95</b>
192567	7769	Rockit Robot with sound-controlled navigation	73	BEG	4.5 x 5.1 x 3.3	1.0	<b>27.95</b>	<b>26.49</b>
358192	70068	Wall Hugging Mouse Robot kit	—	—	—	—	<b>19.95</b>	<b>17.95</b>
358272	70162	Design a robot w/ this RC Robot Construction set! Lift, scoop and drop all kinds of stuff.	144	BEG	—	1.0	<b>52.95</b>	<b>47.95</b>
200328	MK127	Light-Following Running Micro Bug kit	26	INT	4.0 x 2.4	0.2	<b>18.95</b>	<b>16.95</b>
200336	MK129	Light-Seeking Crawling Micro Bug kit	29	INT	4.0 x 2.4	0.2	<b>19.95</b>	<b>17.95</b>
239476	K2633	Relay Card kit (req. pwr supply P/N 133891 pg 124)	29	INT	3.0 x 2.7	0.4	<b>19.95</b>	<b>17.95</b>
357325	OWI-9727	Build this Spider 3 Walker Robot and watch it intelligently avoid any obstacle it faces.	110	INT	5.5 x 3.9 x 4.3	1.3	<b>59.95</b>	<b>53.95</b>
402077	OWI-9875	Binary Disk Player Robot	75	INT	—	1.9	<b>29.95</b>	<b>26.95</b>
386708	21-880	Line Tracking Robot Mouse (solder required)	—	INT	3 x 3 x 3	0.9	<b>22.95</b>	<b>20.95</b>
358352	75020	Line Tracing Snail Robot kit	—	INT	—	2.0	<b>29.95</b>	<b>27.95</b>
401533	71110	Boxing Robot kit (single), 2-channel	84	INT	—	0.4	<b>35.95</b>	<b>32.35</b>
401541	71113	Box with your friends with this kit of Boxing Robots. Remote controlled, they're fun for everyone.	170	INT	—	0.8	<b>59.95</b>	<b>53.95</b>
358045	CYBUG	The CYBUG Scarab kit uses touch and light sensors to find or avoid light. Requires soldering.	83	EXP	4.5 x 4	0.4	<b>49.95</b>	<b>47.95</b>
386610	21-886	Terrain Escape Robot kit with infrared emitting diode and receiver module	—	EXP	5 x 5 x 5	0.9	<b>19.95</b>	<b>17.95</b>
140821	972K	Build the Spider 3 Walker Robot & watch it intelligently avoid any obstacle it faces. Requires soldering.	158	EXP	12.0 x 7.0 x 3.5	1.2	<b>59.95</b>	<b>56.95</b>
357270	27400	Mini SumoBot Programmable kit with surface mount BASIC Stamp 2 Microcontroller	64	EXP	7.9 x 7.9	1.5	<b>199.95</b>	<b>179.95</b>
404478	MR-1017	The PICO is a build-it-yourself programmable robot. Program it to do anything. The sky's the limit!	42	EXP	5.8 x 6.0 x 4.4	3.2	<b>109.95</b>	<b>99.95</b>
199603	769K	Rocket Robot advanced w/ sound-controlled navigation	96	EXP	4.5 x 5.5 x 3.3	1.0	<b>29.95</b>	<b>27.95</b>
<b>120678</b>	K6501	Remote control by Phone kit	116	EXP	4.1 x 5.1	0.7	<b>59.95</b>	<b>54.95</b>
157366	007	Unassembled Robotic Arm Trainer kit, Five axis motion and five switch wired controller	106	EXP	14.2 x 20.1	4.5	<b>74.95</b>	<b>69.95</b>
159345	007/IBM	Robotic Arm Interface kit for P/N 157366, above	5	EXP	3 x 2 x 1	1.0	<b>69.95</b>	<b>64.95</b>

## Audio Transmitters, Amplifier, Sound Generator and Detection Kits

151204	AA-1	Super Snooper Big Ear Audio Amplifier kit	17	INT	1.8 x 1.0 x 0.6	—	\$10.95	\$9.95
151239	FMST-100	FM Stereo Transmitter Mini kit	37	INT	2.7 x 2.0	—	31.95	28.95
117604	K1771	FM Transmitter kit (req. mic. & 9-14VDC pwr supply)	26	INT	1.8 x 2.8	—	19.95	17.95
211772	MK118	FM Radio kit	65	INT	4.8 x 3.3	—	27.95	24.95
127562	K4401	Sound Generator kit with 10 unique sounds	61	INT	2.8 x 2.8	—	34.95	31.95
117612	K1803	Univ. Mono Pre-Amp kit (req. 10-30VDC pwr supply)	17	INT	1.2 x 1.8	—	9.95	8.95
127255	K4001	7-Watt Amplifier kit, Requires 15VDC @ 500mA Power Supply, Music Output Power: 7-Watts, 4Ω	22	INT	2.2 x 1.4	—	17.95	15.95
129138	K4003	30W Stereo Pwr Amp. (req. 2x 12VDC @ 2A pwr supplies)	38	INT	2.8 x 2.0	—	33.95	30.95
147571	MK103	Voice Activated kit. Requires 8-15VDC Power Supply or 9V battery. Sound Activates 4 Flashing LEDs	33	INT	2.5 x 1.6 x 1.4	0.1	8.95	7.95
662670	EBST-11	Audio Stereo Amplifier Kit	32	INT	2.8 x 2.3	—	9.95	8.95
<b>2120823</b>	K8095	MP3 Player Kit, create your own jukebox, sound effects, mp3 and more! SD card operation, Hi-quality VLSI decoder, vol. control up to 32GB, up to 1024 folders with 16,348 songs each	—	EXP	5.11 x 3.9	—	89.95	84.95
<b>2120815</b>	K8098	Audio Analyzer, display EMS/peak power, mean/peakdB, audio spectrum	—	EXP	5" x 2.5" LCD	—	74.95	69.95

© Blue Part No. = Limited Quantity Available

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## Electronic Kits (Continued)

\*Web Code: ERK

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing
						1	5
<b>Test and Measurement Kits</b>							
662725	EBLOG-300A	Logic Probe kit	13	BEG	4.0" L x 0.75" Dia.	—	\$10.95 \$9.95
20685	JE2206	Function Generator kit	21	INT	4.1 x 1.5	0.1	27.95 24.95
129091	K7102	Metal Detector kit, sensitive within 8cm (req. 9V battery)	22	INT	2.1 x 2.1	0.4	17.95 15.95
2109173	28014 	USB oscilloscope, 2-ch digital, 3 probes, 20V max. 200kHz	—	—	5 x 2.25 x 5.0	—	139.95 132.95
2119662	SL004 	Electronics Discovery kit, 16+ projects work with LEDs, switches, buttons, sensors	130	BEG	10 x 6.7 x 3	1	49.95 47.49

## Power Supply and Motor Kits

⊕ Blue Part No. = Limited Quantity Available

181833	VM-1	DC Voltage Monitor kit with 7 LED display	46	BEG	2.7 x 1.3	0.2	\$9.95 \$8.95
117621	K1823	1.5A @ 1.5-35VDC Power Supply kit	12	INT	2.1 x 2.1	0.3	14.95 13.45
20626	JE215	Dual Adjust Regulated Power Supply kit	48	INT	5.1 x 3.5 x 2.0	2.1	24.95 22.49
127829	GMC-1102	Motor Speed Control kit: powers up to 5A @ 100VDC	35	INT	3.6 x 2.3 x 1.2	—	23.95 21.55
239521	K8012 	Lead Acid Battery Charger kit	62	INT	3.8 x 5.5 x 1.6	—	49.95 44.95
160047	3-301	Mini-Dual H-Bridge Motor Driver kit	31	INT	1.13 x 1.0	0.1	24.95 22.49
120539	K8004	DC Pulse Width kit, Proportional DC Voltages to Pulses	40	EXP	3.3 x 1.9 x 1.8	0.5	24.95 22.45
357851	3-773	Maxi-Dual H-Bridge Motor Driver kit	54	EXP	—	0.2	59.95 53.95
358248	70097	Twin Motor Gearbox kit	61	EXP	—	0.3	14.95 13.45
2119751	C-8051	Adjustable Gear Motor kit, 4k-14k rpm	22	BEG	4.3 x 4.9	—	11.95 11.49

## Distance and Light Kits

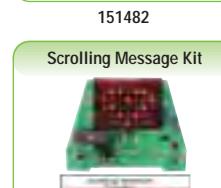
157964	LED1007	Infrared Illuminator kit	41	BEG	2" Dia.	0.1	\$15.95 \$14.49
236081	MK145	Flashing Pumpkin kit	71	BEG	3.2 x 4.0 x 1.3	—	11.95 10.95
147635	MK100	Flashing Christmas Tree kit	30	BEG	4.0 x 2.4 x 1.0	—	6.95 6.25
211781	MK130	3D Flashing Christmas Tree kit	36	INT	3.1 x 3.5 x 4.0	—	9.95 8.95
236072	MK117	Deluxe Christmas Tree kit	208	INT	3.2 x 5.6	—	19.95 18.95
200310	MK124	Scrolling Message kit	76	INT	3.5 x 2.6 x 1.8	0.2	22.95 20.95
147555	MK101	Flashing LED Sweetheart kit, Requires 9V battery, 25 T1 (3mm) Red LEDs	46	INT	1.3 x 2.3 x 1.3	0.1	9.95 8.95
147580	MK102	Flashing LED kit, Requires 9V battery, 2 T1 3/4 Red LEDs	23	INT	1.3 x 1.4 x 0.6	0.1	7.95 6.95
282861	28015	Ping Ultrasonic Range/Distance Finder, Measures distance between moving or standstill objects	—	INT	0.9 x 1.8 x 0.6	0.2	29.95 27.95
151482	OEM-ANN1	Use this Distance Sensor Module to ultrasonically sense distance or size with your computer	—	INT	2.8 x 1.8 x 0.9	—	163.95 155.95
147643	K4304	10-LED Mono VU Meter kit	36	INT	2.7 x 1.4	—	24.95 22.45
129120	K3502	Parking Radar kit	55	INT	4.9 x 1.9	—	45.95 40.95
211764	MK116	Santa Sleigh and Reindeer kit	201	EXP	5.7 x 3.2	—	19.95 17.95
2119671	PAPERV1 	Papertronics Vol. 1, makes 3 paper lunar modules that light up with LEDs	13	BEG	11 x 9 x 0.5	—	14.95 14.49
177092	IR-2	Infrared Transmitter & Receiver kit (req. 9V battery)	26	INT	1.0 x 0.8	—	24.95 22.45

## Solar Kits - No Batteries Required

2097521	MSK610 	6-in-1 Educational Solar kit, create a solar car, airboat, windmill & more, no tools or battery required	33	BEG	4.75 x 2.4 x 3.4	0.5	\$19.95 \$17.95
2111986	MSK614 	T3 Transforming Solar Robot, create a solar tank, scorpion or robot, no batteries required	71	BEG	9.8" Dia. x 3.6" H	0.5	19.95 17.95
2112090	MSK679 	The Solar System Solar kit, build, paint and watch the solar system come to life using solar energy	70	BEG	4.4 x 3.7 x 3.2	0.5	19.95 17.95

## Miscellaneous

358299	70100	Tank and Track Wheel set	40	BEG	—	—	\$9.95 \$8.95
2114520	70108	Tracked Vehicle Chassis kit	57	INT	2.8 x 2.4 x 1.0	—	19.95 18.95
2114546	70168	Double Gearbox, 4-speed, independent left/right	116	EXP	—	—	12.95 11.95
358213	72001	Planetary Gearbox kit	—	INT	—	—	19.95 17.95
2114538	72004	Worm Gearbox, Hi-eff kit	58	INT	3.0 x 3.2 x 1.2	—	14.95 13.49
2114511	72102	Gearhead motor with 130 pin spike tire kit (2-unit)	57	INT	—	—	159.95 143.95
358336	70144	Ball Caster set	60	INT	—	0.6	5.95 5.49
127554	K6400	Code Lock kit	67	INT	1.7" L x 1.8" W	0.5	29.95 25.95
645263	VM110	Control your electronics from your computer w/ this USB Interface, 7 inputs and 10 outputs	1	EXP	5.7 x 3.0 x 0.8	—	89.95 79.95
2119734	C-9701	20 second voice recorder	—	BEG	—	—	14.95 13.49
357683	3-203	Frankenserial Interface kit	25	—	—	—	39.95 35.95
358432	TELCMD-USB	Telecommander Software	—	—	—	0.2	19.95 17.95
404419	165441	Serve tea with this mechanical wind-up Tea Serving Robot	1	BEG	10.0" H x 4.0" W	2.1	79.95 69.95



\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above

# Robotic Components & Muscle Wire Kits

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**



## Technic Motorized Hauler

Motorized LEGO™ Power Functions including tipping trailer bed, working articulated steering, independent rear suspension and an opening engine cover. It can go anywhere and haul anything, no matter the obstacle or challenge.

- Rebuilds into a flatbed
- 16" (40cm) long
- Difficulty level: intermediate
- Features tipping trailer bed and independent rear suspension
- Ages: 9-16

**Includes:** Power functions motor and battery box

**Requires:** 6 AA batteries (not included, recommend P/N 198707, pg 149)



**NEW**  
MARKED IN PINK

Part No.	Mfr. Part No.	No. of Pieces	Price
2117392	8264R	575	\$69.95



## Robotic Arm Edge Kit

Create and take command of the Robotic Arm Edge, the new, incredibly flexible robotic arm you can build yourself. Find gadgets all around the base with its new search light and the enormous reach of the arm!

- Five switch wired controller
- Base rotation of 270°
- Lifts 100 grams (3.5 ozs.)
- Horizontal reach of 12.6 inches
- Extensive elbow range of 300°
- Difficulty level: intermediate
- 187-piece kit



**Requires:** 4 D batteries (not included, recommend P/N 215845, pg 149)

Part No.	Mfr. Part No.	1	5
2095023	OWI-535	\$49.95	\$44.95

## MONDO•TRONICS

### Shape Memory Alloy Kits, Book and Accessories

A long time developer of Shape Memory Alloy products including the popular Muscle Wire® products and kits. What are Shape Memory Alloys? These unique metals are made from a combination of two or more elements that exhibit hardness and elasticity properties that change radically at distinct temperatures. After alloying and basic processing, SMAs can be formed into a shape (for example a coil spring) and then set to that shape by a high heat treatment. When cooled, they may be bent, stretched or deformed (within limits) and then with subsequent moderate heating (well below the heat setting temperature), they can recover some or all of the deformation – they move when heated!

Shape Memory Alloys have found use in everything from space missions to floral arrangement, to arterial stents for restoring blood flow to clogged arteries, to actuators for miniature robots, to cell phone antennas, orthodontic braces and even eyeglasses.

#### Kits

Part No.	Product No.	Description	1	5
141313	3-001	Space Wings kit	\$19.95	\$17.95
357827	3-619	Solar Space Wings kit	23.95	21.95
357528	3-102	Muscle Wire R & D kit (5 meters each of 0.050µm, 100µm LT wire; 1 meter each of 250µm Flexinol LT wire)	225.95	199.95
357641	3-136	Muscle Wire Super Sampler kit (20cm each of 037µm, 050µm, 100µm, 150µm, 250µm)	35.95	32.35
357659	3-141	Project Book Sample kit (20cm of 50µm flexinol wire; 40cm of 100µm and 150µm LT wire)	34.95	31.45
358580	3-337	Modulated Infrared Reflective Detector kit (0.9" L x 0.8" W x 0.4" H)	19.95	17.95

#### Book

141330	3-133	Muscle Wire Project Book, 3rd Edition	\$19.95	\$17.95
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#### Wires and Springs

357798	3-401	Nitinol SMA wire (1 meter L x 500µm Dia.)	\$16.95	\$15.25
357801	3-402	Nitinol SMA wire (1 meter L x 100µm Dia.)	29.95	26.95
357835	3-462	Nitinol tension springs (4pk.) 6mm OD x 750µm	45.95	41.35
357843	3-657	Nitinol compression springs (4pk.) 8mm OD x 950µm	45.95	41.35

## MONDO•TRONICS Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.

**How it works...** Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.

**Includes:** Instructions



**Web Code: WAU**

Part No.	Mfr. P/N	Length (meter)	Wire Dia. (microns)	Linear Resistance (Ω/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
									1	5
357561	025HT	5	25	1770	20	2	7	—	\$59.95	\$53.95
357456	025LT	1	25	1770	20	2	7	—	22.95	19.95
357931	075LT	1	75	200	100	815	80	40	17.95	15.95
357595	100HT	1	100	150	180	28	150	43	17.95	15.95
141321	100LT	1	100	150	180	28	150	33	17.95	15.95
357472	100LT	5	100	150	180	28	150	33	66.95	59.95
141874	150LT	1	150	50	400	62	330	20	17.95	15.95
160055	375LT	1	375	8	2750	393	2000	4	22.95	20.95
357712	375HT	1	375	8	2750	393	2000	5	22.95	20.95

\* Multiply by 0.0098 to get force in Newtons

\*\* Cycles per minute, in still air, at 20° Centigrade



## Vector 2X Compass Module

- Pin selectable BCD or binary output format (compatible with Motorola SPI and National Microwire)
- 2° accuracy, 1° resolution
- 3-wire serial output format
- Raw uncalibrated magnetometer output optional
- Hard iron calibration
- Master or slave capability for data clock generation
- 5Hz sampling rate



Part No.	Description	1	5
126703	Compass module	\$39.95	\$34.95

**For more Sensors & Modules, see pg 194**

*Our goal is to provide you with more of what you want. Let us know how we can better serve your electronic needs. Send feedback to Management@Jameco.com.*



**EDU & HOBBY** This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 194.](#)

## Thrust Washers

Use to reduce the friction that occurs in metal-to-metal contact, particularly where wheels join to axles.

401226



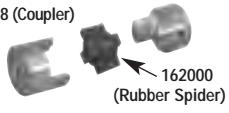
Part No.	I.D.	O.D.	# of Balls	Load Rating @ 15 RPM	1	5
401197	1/8"	.434"	6	89 lbs.	\$2.95	\$2.49
401200	3/16"	.497"	7	104 lbs.	... 2.95	2.49
401226	5/16"	.622"	9	134 lbs.	... 3.49	2.95
401234	3/8"	.809"	6	149 lbs.	... 3.95	3.49
401242	1/2"	.934"	8	198 lbs.	... 3.95	3.49

\*Lasers — Enter Web Code **LAZ**

## Spider Couplers

Used with motors 162288 (Coupler)

- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



Part No.	Description	1	5	25
162288	.125" (3.18 mm) ID hub	\$1.49	\$1.35	\$1.19
161998	.197" (5.00 mm) ID hub	1.19	1.05	.95
162270	.250" (6.35 mm) ID hub	1.49	1.35	1.19
162000	Rubber spider	1.55	1.39	1.25

## Roll-Flex Omni Wheel

- Multi-directional roller
- Supports up to 45 lbs.
- Open design eliminates lock-up
- Safe for all surfaces
- Compatible with Stingray Robot (P/N 2099673)
- 2120532: Aluminum axle for omni-wheel
- Tapped for two #4-40 1/4" screws



Part No.	Mfr. Part No.	1	5
2120524	Omni directional roller wheel	\$24.95	\$23.95
2120532	2" threaded aluminum axle	.89	.79

## 10-Piece Gear Assortment

- Polyethylene resin
- Gears are 0.147" bore size
- Bushings are 0.07" bore diameter
- T10, T20, T30, T40, T50 and bushing



Part No.	Description	1	5	25
1810072	Gear set - 10 pieces	... \$7.95	\$6.95	\$6.25

\*Gears — Enter Web Code **PEF**

## Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

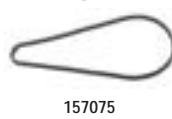
### 168284 Includes:

1 each of the following: 10 teeth with  $\frac{1}{32}$ " bore size; 14 and 16 teeth with  $\frac{1}{16}$ " bore, 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with  $\frac{1}{4}$ " bore size

Part No.	Description	1	5	25
157104	1/4" bore aluminum mounting hub with set screws	\$7.95	\$6.95	\$6.25
168284	Gear set - 12 pieces (see description above)	39.95	34.95	31.95

## 16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.



Part No.	Description	1	5	25
157075	Drive chain (12" long)	\$10.95	\$9.95	\$8.95
168276	Sprocket set - 14 pieces (see description above)	29.95	26.95	23.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Class IIIa  
Laser Product

## Green Laser Pointer



Class IIIa Laser Product

Uses a wavelength closely matched to the highest sensitivity of the human eye and built w/ cutting-edge crystal technology. Projects a green beam so powerful you can see it against a clear night sky.

- Output wavelength: 532nm
- Output power: <5mW
- 90-day manufacturer's warranty

**Includes:** Metal gift box, clip and 2 AAA batteries

Part No.	Mfr. Part No.	Size (L" x Dia")	1	5
223731	5608	5.6 x 0.5	\$99.95	\$89.95



## Red Laser Pointer Pen

**Includes:** 2 AAA batteries

- Range up to 500 yards
- 670nm output wave length
- Plastic gift box

Class IIIa Laser Product

Part No.	Mfr. Part No.	Size (L" x Dia")	1	5
153605	4012	5.2 x 0.4	\$21.95	\$19.75

## Laser Diode Module

- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working distance: over 50 meters (daylight), 200 meters (dark)
- Size: 0.9" L x 0.3" Dia
- One-year warranty

Class IIIa Laser Product

Part No.	Description	1	5
310519	Laser module, brass	\$44.95	\$39.95

## Laser Diode

- Optical output power: 5mW maximum
- Operating current: 30mA
- 5.6mm packaging size
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- Beam divergence of 11' from center line max.

Class IIIa  
Laser Product

Part No.	Product No.	1	5	25
182932	ULD-6556	\$14.95	\$13.45	\$12.09

## Climax Spider Shaft Coupler

- 2 set screws (10-32 x 1/8")
- Size: 0.75" L x 0.5"OD

\*Web Code: EBE

Part No.	Description	1	5	25
138288	.250" ID sleeve coupler	\$5.95	\$5.35	\$4.79



168284

157104

157075

168276

157075

168276

## 550nm Line and Dot Laser Diodes

143845/173243:

- Focus adjustable with locking set screw

• Wattage: 5mW

• Oper. volt.: 3.5V

• Size: 3.3" L x 0.9" Dia.

• One-year warranty

\*Web Code: LAZ

173243

143845

Line laser module

143837

Module regulated power supply

143853

Laser diode module mount

143853

Cross hair laser diode module

143853

Laser fan angle: 60°

143853

Size: 3.0" L x 0.9" D

143853

Female 2.1mm power connector

143853

Weight: 0.6 lbs.

143853

Laser Diode

143853

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# Parallax Propeller Boards, Sensors, Modules & Kits

3 LEVELS OF SAVINGS  
**NAME BRANDS**   **HOUSE BRANDS**   **FACTORY OVERRUN**

**PARALLAX** Parallax's mission is to provide the electronics industry with products that are technically innovative, unique and economical. Parallax designs and manufactures microcontroller development tools and small single-board computers. Parallax Inc. current product line consists of BASIC Stamp microcontrollers and development software, SX chips and programmers/debuggers, Propeller chips and tools, project boards, robotics kits, educational tools and sensors.

For Additional BASIC Stamp Modules, See Page 12

\* Web Code: PAR



## Sensors, Modules, & Accessories

For more sensors, see pg 102-104

Part No.	Mfr. Part No.	Description	1	5
2082855	27800	Modular 2-axis joystick, dual 10k pot with common ground, 1.64"x1.2"x1.1"	\$9.95	\$8.95
2082901	27920	HS1101 Humidity Sensor, 5VDC to 10VDC, 0.25"x0.40" Dia., -40°F to 212°F	6.95	6.25
2082919	27922	Gyroscope Module, ±3000°s full scale, 3.4VDC to 6.5VDC @ 5.25mA	49.95	44.95
2110035	27925	μOLED display module, 1.5" diagonal, 128x128 pixel resolution	99.95	94.95
2082880	27930	CH4 gas sensor, 5VDC@165mA (sense mode) TTL compatible input and output	34.95	32.95
2082863	27931	CO gas sensor, 5VDC @ 165mA TTL compatible input and output	34.95	32.95
2082871	27932	LPG gas sensor, 5VDC @ 175mA (sense mode) TTL compatible input and output	34.95	32.95
2109384	27982	433MHz RF Transceiver module, 1200-9600bps transfer rate, 250 ft. line of sight range	39.95	37.95
2109499	28026	H48C 3-axis accelerometer, serial SPI, 5VDC, ±3g, free-fall detection	38.95	36.95
2007185	28028	Sensor Sampler kit, includes sensirion temp. and humidity sensor, flexiforce sensor ultrasonic sensor, PIR proximity sensor, Hitachi HM55B compass module	195.95	185.95
2109739	28141	RFID transponder tag, 54mm x 85mm rectangle	.95	.85
2110887	28142	RFID transponder tag, 125kHz activating frequency, compatible with Jameco P/N 2007169 and 2007177, 50mm round	.95	.85
2109229	28146	GPS receive module, 5VDC, 4800bps TTL, track 12 satellites, 4-pin header	89.95	85.95
2109667	28526	3-axis accelerometer, digital output, SPI or I2C, sensitive select ±2g/±4g/±8g	34.95	32.95
653651	29123	HM55B compass module, compatible with most microcontrollers	29.95	26.95
2109747	29140	Introduction to sensor kit, includes distance, compass, proximity, multi-axis	99.95	89.95
2109149	30080	Say It voice recognition module, 32 user definable commands	89.95	85.95
2110060	32311	Propeller accessories kit (PS/2 keyboard and mouse, display) 3.5" NTSC/PAL LCD compatible display, for P/N 2007126	149.95	142.95
2082935	32313	SD card adapter, SPI communication	19.95	17.95
2007169	32390	RFID Serial Reader and Tag Sampler kit, includes RFID serial card reader, tags	49.95	46.95
2007177	32395	RFID USB Reader and Tag Sampler kit, includes RFID USB card reader & tags	64.95	59.95
2110633	32397	RFID transponder tag, 25mm disk, 125kHz activating frequency, compatible with Jameco P/N 2007169 and 2007177	.95	.85
2109691	350-00014	Infrared receiver, 38kHz carrier freq. found in Boe-Bot and SumoBot kits	4.49	4.25
2109587	555-27401	OTI line sensor, IR emitter/detector, 5VDC, analog/digital output	7.95	7.49
2082927	555-28027	PIR Sensor kit, single bit high/low output	12.95	11.49
2109413	570-28015	PING Mounting Bracket kit, includes Parallax standard servo	29.95	26.95

## Motor / Servo Controllers

For servo motors, refer to pg 114

2109659	27969	USB BiSTEP Motor Controller, up to 2 unipolar 4-pole stepper motors	\$134.95	\$129.95
2099104	28830	Propeller Servo Controller, P8X32A-M44 propeller chip on-board	49.95	47.95
2007193	29144	HB-25 Motor Controller, 6VDC min. to 16VDC max motor supply	49.95	44.95

## Kits, Protoboards and Development Boards

2115768	KARDWA	Ardweeny Microcontroller kit, Arduino compatible, atmega328, 7+ pcs.	\$13.95	\$13.25
387971	27807	BASIC Stamp USB discovery kit, includes Board of Education USB, BASIC Stamp 2 module	169.95	159.95
282829	27207	BS2 Educational Starter kit, includes BASIC Stamp 2 module, serial Board of Education	165.95	149.95
661116	27297	Stamp Works kit plus, includes Parallax Professional Development Board	289.95	259.95
2109368	28024	USB to serial development tool, 5VDC, FTDI chip in-circuit	22.49	21.49
1536907	28103	Board of Education full kit, serial version	109.95	99.95
282933	28132	Serial BOE-BOT full kit, complete reprogrammable robot kit	158.95	142.95
2109165	28803	Board of Education full kit, USB version	99.95	94.95
387997	28832	USB BOE-BOT full kit, complete reprogrammable robot kit in USB version	159.95	143.95
2113439	28975	Robot Base kit made of plywood, pre-drilled for motors and sensors	34.95	31.95
2099673	28980	Stingray Robot kit, multicore propeller chip based control board, 64KB EEPROM on-board 3.3V & 5V switching power supply	299.95	279.95

\* For All Parallax Products — Enter Web Code PAR

RoHS compliant product   This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 197.](#)

## PARALLAX® Kits, Protoboards and Development Boards (Continued)

Part No.	Mfr. Part No.	Description	NEW MARKED IN PINK	1	5
2109721	32100	Propeller Demo Board, USB to serial interface, P8X32A-044 chip		\$83.95	\$79.95
2007126	32111	Propeller Professional Development Board with built-in USB		169.95	152.95
2007097	32300	Propeller Starter kit, includes Propeller manual, Propeller demo board, Type A to mini B USB cable, 6VDC to 9VDC power requirement		99.95	89.95
2007100	32305	Propeller Education kit, includes Propeller Fundamental Book, Propeller DIP plus kit		124.95	114.95
2007118	32812	Propeller USB proto-board, P8X32A-044 Propeller chip, 64KB EEPROM for program and storage, LM1086 5V and 3.3V regulators		39.95	35.95
2117341	50512	Basic breakout board, FTDI 3.3/5V Arduino, USB serial 6-pin		19.95	18.95
2109202	90005	BASIC Stamp activity kit, 40+ projects, 350pp guide, 48 pcs.		99.95	94.95



## Wireless Devices

Part No.	Mfr. Part No.	Description	1	5
2113421	32400	Xbee adapter board, USB interface, PCB mount, 0.1" spacing, soldering required	\$27.95	\$25.95
2113412	32403	Xbee adapter board, 0.1" spacing, PCB mount, soldering required	3.49	3.25
2113375	32404	Xbee chip antenna, 1mW, 2.4GHz, 300' line of sight, 802.15.4 network	26.95	24.95
2113391	32406	Xbee chip antenna, 60mW, 2.4GHz, <1 mile range line of sight, 802.15.4	46.95	43.95
2119961	SE1200A-DIP	DataBridge, I/O transceiver, 6 digital I/O, 2 analog I/O, UART Tx/Rx, 2.4GHz, 1mW, 0.625 mile, int. ceramic antenna	86.95	79.95
2119970	SE1200D-DIP	DataBridge, I/O transceiver, 6 digital I/O, 2 analog I/O, UART Tx/Rx, 2.4GHz, 100mW, 2.5 mile, SMA connector	99.95	94.95

## PowerFilm® Flexible Thin Film Solar Modules

\*Web Code: QEM

**Wireless Electronics Series** The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. This module is lightweight, paper thin and durable.



228013

## 60mm Solar Panel

- Clear coat plastic
- Voltage output: 4.7VDC to 5VDC
- Power output: 0.25W max.
- Size: 2.36" L x 2.36" W x 0.1" Thick
- Material: copper indium diselenide



Photovoltaic Mini Module

Part No.	Description	1	5	25
1928142	Solar panel .....	\$7.95	\$6.95	\$6.25

## Mini-Panel Solar Cells

*Ready to Use! No Soldering*

Encapsulated mini-panels utilize solar cells similar to those that power our satellites in space, yet they are safe and simple to use. Mini-panels allow for handling without the normal breakage and cell damage associated with fragile solar cells. 6" red/black lead wires attached. Modules may be connected to create different outputs.



200221

\*Web Code: MPS

## WeatherPro Series

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, an extra edge seal for weather protection, and tin-coated copper leads that extend from the module.



228161

Part No.	Mfr. Part No.	Operating Voltage	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	5	25
228161	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	\$34.95	\$31.49	\$28.25
228179	P7.2-150	7.2	200	10.3 x 6.9 x .04	270 x 175 x 1.1	49.95	44.95	39.95
228195	PT15-150	15.4	100	10.3 x 6.9 x .04	270 x 175 x 1.1	54.95	49.45	44.49
228208	PT15-300	15.4	200	10.3 x 12.8 x .04	270 x 325 x 1.1	99.95	89.95	79.95

## Foldable Solar Chargers

### Ultra Compact, Ultra Lightweight, Easy-to-Use

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2114474/2114482: Charge batteries, cell & satellite phone, laptop, etc. Lightweight and portable (foldable)

2114491/2114503: Thin film on plastic, truly rollable, and does not suffer from wasted over-voltage (rollable)

2108621: Charges 2 AA batteries (folds up compactly to fit into pocket)

2097133: Charges 2 AA batteries and most small USB devices (folds up compactly to fit into pocket)

Part No.	Mfr. Part No.	Description	Operating Voltage @ Current	Charging Voltage	Folded/Unfolded Dimensions (in.)	1	5	25
2108621	AA Charger	Solar, foldable charger	3.6V @ 0.6A	—	5.5 x 3.3 x 1.4 / 5.5 x 31.5 .....	\$89.95	\$79.95	\$69.95
2097133	UBS + AA Charger	USB + AA charger	3.6V @ 0.4A	5.0V	3.25 x 5.5 x 1.38 / 24 x 5.5 .....	89.95	79.95	69.95
2114474	F15-300N	Solar, foldable charger, 5W	15.4V @ 0.3A	—	10.3 x 3.3 / 24.5 x 10.3 .....	99.95	89.95	79.95
2114482	F15-600N	Solar, foldable charger, 10W	15.4V @ 0.6A	—	10.5 x 3.5 / 23.7 x 21 .....	249.95	224.95	195.95
2114491	R15-300N	Solar, rollable charger, 5W	15.4V @ 0.3A	—	11.5 x 4 x 3.7 / 11.5 x 21 .....	149.95	134.95	124.95
2114503	R15-600N	Solar, rollable charger, 10W	15.4V @ 0.6A	—	11.5 x 4.25 / 11.5 x 38 .....	249.95	224.95	195.95

\*Web Code: FSC



2097133

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2095015

2112137

1 5

Part No.	Mfr. Part No.	Description	*Web Code: NRG		
2095007	FCJJ-23	H-Racer 2.0 is the world's smallest hydrogen fuel cell car equipped with remote-control steering and light emitting features with the car ....	\$119.95	\$109.95	
2112137	FCJJ-25R	H2GO Hybrid Electric Hydrogen RC Vehicle runs on energy from the sun and water and combines fuel cells for cruise power.....	129.95	119.95	
		Not even the remote control needs batteries			
2095015	FCJJ-27	Alternative Energy kit that combines solar, wind, and fuel cell technologies in a mini-renewable energy system .....	199.95	189.95	
2112145	FCJJ-29R	Wind Pitch is a miniature real-working wind turbine (wind power generator) designed to evaluate the pitch (setting angle).....	89.95	82.95	
2112153	FCJJ-26R	Hydro-Wind Turbine kit invents clean energy applications using fuel cells and renewable hydrogen-harness the energy of the wind .....	99.95	89.95	
2112188	FCJJ-22R	Bio-Energy kit uses ethanol as fuel source. This fuel cell kit directly converts ethanol (alcohol) to electricity .....	99.95	89.95	
		silently and without any combustion			

## Books

\*Web Code: FOR

### Forrest M. Mims III Books

One of the most widely read electronics authors in the world. Forrest M. Mims, III has written over 60 books and has been honored twice for excellence by the Computer Press Association. "Getting Started in Electronics" has sold more copies than any other book on the subject. It is a complete electronics course in just 128 pages! Mims teaches the basics and takes you on a tour of analog and digital components. He explains how they work and shows how they can be combined for various applications. It also includes assembly tips and 100 electronic circuits and projects to build and test. If you're up for a challenge, see Forrest's Puzzler on page 83 or Forrest's Recipe on page 113.



2112743

2112751

2112760

2112778

2112786

Part No.	Description	Pages	Price
2112743	Forrest M. Mims III Engineer's Guide to Electronics Volume I: Timer, OP Amp, Optoelectronic Circuits & Projects	124	\$12.95
2112751	Forrest M. Mims III Engineer's Guide to Electronics Volume II: Science & Communication Circuits & Projects	140	\$12.95
2112760	Forrest M. Mims III Engineer's Guide to Electronics Volume III: Electronic Sensor Circuit & Projects	144	\$12.95
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2112807

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677951

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141330

355231

305171

88225

2113447

Part No.	Description	Pages	Price
2112815	Basic Communication Electronics: Explains analog electronic devices and circuits, how they work and how they are used to build communication systems with an emphasis on semiconductor devices and integrated circuits (ICs)	224	\$21.95
2112807	Basic Digital Electronics: Explains digital system functions and how digital circuits are used to build them	192	21.95
2112794	Basic Electronics: Explains electronic devices and circuits, how they work and how they are used	224	21.95
677951	Modern Solder Technology, Competitive Electronics Manufacturing	622	49.95
357659	Mondotronic, Muscle Wire Project Book Sample kit	128	34.95
141330	Muscle Wire Project Book, 3rd Edition	128	19.95
355231	Pocket PC Reference Book, 13th Edition. This book covers troubleshooting error codes	1088	12.95
305171	Rechargeable Batteries, Application Handbook	290	39.95
88225	Texas Instruments TTL Databook. Databook that contains Texas Instruments TTL logic	2140	34.95
2113447	Programming & Customizing the Multicore Propeller Microcontroller: Official Guide by Parallax	475	39.95



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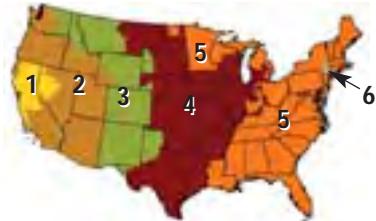
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## LCD Character and Graphic Displays (Parallel)

\* Web Code: GCG

Newhaven Display provides custom and standard monochrome character and graphic LCDs with a wide variety of backlight color combinations.

### Features Include:

- 8 different backlight color options
- Low power backlight, higher brightness per watt
- Positive and negative image options
- Industry standard sized and interfaces
- Wide operating temperature
- RoHS Compliant



2118619



2118598



2118635



2118694

**NEW**  
MARKED IN PINK

Part No.	Mfr. Part No.	Characters x Lines	Character Font	Input Data	Input Voltage (V @ mA)	Letters Backlight	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing		
									1	5	25
2118619	NHD-021682-FL-YBW	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Blue-Yellow/Green	3.3 x 1.7 x 0.5	2.5 x 0.6	\$9.95	\$8.95	\$7.95
2118580	NHD-0216K1Z-FL-YBW	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Blue-Yellow/Green	3.2 x 1.4 x 0.5	2.5 x 0.6	9.95	8.95	7.95
2118601	NHD-0216K1Z-FS(RGB)-FBW	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Black-RGB	3.2 x 1.4 x 0.5	2.5 x 0.6	13.95	12.95	11.95
2118598	NHD-0216K1Z-NSW-BBW-L	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	White-Blue	3.2 x 1.4 x 0.5	2.5 x 0.6	10.95	9.95	8.95
2118627	NHD-0216SZ-NSW-BBW	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	White-Blue	4.8 x 1.7 x 0.5	3.9 x 0.9	21.95	20.49	18.95
2118635	NHD-0220DZ-FL-YBW	20 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Blue-Yellow/Green	4.6 x 1.5 x 0.4	3.3 x 0.7	17.95	16.95	15.95
2118643	NHD-0420DZ-FL-YBW	20 x 4	5 x 8	4-bit or 8-bit	5.0 @ 3.5	Blue-Yellow/Green	3.9 x 2.4 x 0.6	3.0 x 1.0	21.95	20.49	18.95
2118694	NHD-12864AZ-FSW-GBW-VZ	128 x 64	128 x 64	8-bit	5.0 @ 3.5	Blue-White	3.7 x 2.8 x 0.5	2.8 x 1.6	25.95	24.95	23.95
2118707	NHD-24064CZ-FSW-GBW-VZ	240 x 64	240 x 64	8-bit	5.0 @ 7.0	Blue-White	4.6 x 1.8 x 0.5	3.8 x 1.2	49.95	48.95	47.95

Additional Parallel LCD Displays on page 37



## TFT LCD Displays

\* Web Code: GCG

Newhaven Display provides digital TFT LCDs with the industry's best performance and features. Our TFT's include the following sizes: 1.8" 2.4" 3.5" 4.3" and 5.7".

### Features Include:

- High brightness and contrast
- Bright LED backlights
- Wide operating temperature
- 3.5" and 5.7" in Landscape mode
- Fast response time
- Wide viewing angles
- QVGA and VGA
- RoHS Compliant



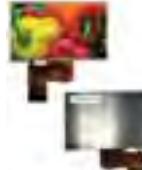
2118715



2118723



2118731



2118740



2118758

**NEW**  
MARKED IN PINK

Part No.	Mfr. Part No.	Pixels (Portrait Mode)	Diagonal View	Input Data (Parallel)	Input Voltage (V @ mA)	Built-In Controller	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing		
									1	5	25
2118715	NHD-1.8-128160ZF-CTXL#	128 x 160	1.8"	8-bit	2.8 @ 25.5	IL9163	1.4 x 1.9 x 0.10	1.10 x 1.40	\$17.95	\$16.95	\$15.95
2118723	NHD-2.4-240320SF-CTX#	240 x 320	2.4"	8-bit or 16-bit	2.8 @ 7	IL9328	1.7 x 2.4 x 0.10	1.50 x 1.90	29.95	27.95	25.95
2118731	NHD-3.5-320240MF-ATXL#-1*	320 x 240	3.5"	24-bit	3.3 @ 8.6	—	3.0 x 2.5 x 0.11	2.80 x 2.10	33.95	31.95	29.95
2118740	NHD-4.3-480272MF-ATX#-T-1*	480 x 272	4.3"	24-bit	3.3 @ 32	—	4.2 x 2.7 x 0.15	3.70 x 2.10	48.95	45.95	42.95
2118758	NHD-5.7-640480WF-CTXL#-T*	640 x 480	5.7"	24-bit	3.3 @ 190	SSD1963	4.9 x 3.9 x 0.15	4.50 x 3.40	139.95	134.95	129.95

\* Landscape mode

Complete section of Displays on pages 37-38

## Books on Basic Electronics, Digital Electronics & Communication Electronics

### Seeing & Doing Together for a Meaningful Learning Experience!

These three books explain electronic fundamentals using easy-to-read, easy-to-understand explanations coupled with detailed illustrations and practical applications.

#### Basic Electronics by Gene McWhorter & Alvis J. Evans

- Emphasis on using electronics circuits to amplify, transmit, receive, and detect signals
- Full-scope coverage of electronics in 11 chapters
- Contains worked-out examples, quizzes, and problem sets at end of each chapter

#### Basic Digital Electronics: Explains Digital Systems Functions and How Digital Circuits are Used to Build Them by Alvis J. Evans

- Thoroughly explains the difference between analog and digital systems
- End-of-chapter quizzes and problem sets reinforce learning
- Includes: Worked-out examples and detailed illustrations within text

#### Basic Communications Electronics by Jack Hudson & Jerry Luecke

- Emphasis on semiconductor devices and integrated circuits (ICs)
- End-of-chapter quizzes and problem sets reinforce learning
- For anyone who wants to understand analog electronics and wireless communications
- Includes: Worked-out examples and detailed illustrations within text

**NEW**  
MARKED IN PINK

\* Web Code: BKS



2112794



2112807



2112815

Part No.	Description	1	5
2112794	Basic Electronics, ISBN 0945053223, 224 pages	\$21.95	\$19.95
2112807	Basic Digital Electronics, ISBN 0945053231, 192 pages	21.95	19.95
2112815	Basic Communications Electronics, ISBN 094505324X, 224 pages	21.95	19.95

More Books on page 196

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

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# New Products

JAMECO  
ValuePro

## USB 3.0 4-Port Hub & 2-Port Express Card

Expand a single USB port into four so that there are more ports available to connect devices to a host system. The PCI Express (PCIe) Computer expansion card is designed as an expansion card interface for add-in boards.

- SuperSpeed with 5 Gbps data transfer rate
- Backwards compatible with USB 2.0 and lower
- System Support: Windows® XP, Vista, 7; Mac® OS 10.3 or higher
- Hot syncing



\* Web Code: NEM

**NEW**  
MARKED IN PINK

Part No.	Description	1	10
2119646	USB 3.0 4-Port Hub	\$69.95	\$59.95
2119638	USB 3.0 2-Port Express PCMCIA Card	39.95	32.49

Complete selection of USB Hubs on pages 184-185

GWC®

## USB Wireless Audio Adapter

Wirelessly transmit music from your PC or Notebook to any room or directly to your headphones. Instant wireless audio system in minutes!

- No more wires or cables to connect
- Transmitter distance of 135 ft.
- Proprietary 2.4GHz wireless solution
- Easy system expansion with stereo sound support
- Supports Windows® 2000, XP, and Vista
- 35mm jack
- Plug and play, quick and convenient use, no driver/software installation required

**NEW**  
MARKED IN PINK



\* Web Code: WLS

Part No.	Mfr. Part No.	Description	1	5
2120882	WA2200R	Wireless Audio Adapter 2.4 GHz	\$49.95	\$44.95

More USB Adapters on page 185

JAMECO  
ValuePro

## 10-Component 411-Piece Screw Kit

The perfect kit containing an assortment of the most common PC screws, washers, and caps used for building, repairing, and maintaining computer systems.

- 20 rubber washers
- 50 #6.5 x 4 to M3 metal jackscrews
- 20 rubber rivet washers
- 50 #6-32x 4mm Phillips screws
- 50 case fan mounting screws F5 x 12 TP3
- 20 #6 x 8 tool-less screws
- 100 2.54mm jumper caps
- 50 3 x 6 CD Rom screws
- 50 #6-32x 6" Phillips screws
- 1 precision Phillips screwdriver

**NEW**  
MARKED IN PINK



\* Web Code: PCS

Part No.	Description	1	5
2120891	411-Piece Screw Kit	\$19.95	\$17.95

More Hardware on pages 107-109

## DigiView 100MHz Digital Logic Analyzer

The DV-3100 analyzer allows you to display digital circuit signals allowing you to precisely observe the operation of your digital system.

- 18-channels @ 100 MHz (10 ns)
- 64-bit ready
- Eliminates resolution vs. depth tradeoffs
- Flexible, cascadable sequencers (4 x 4)
- Automatic real-time hardware compression (tri-mode)
- +0.5 to +2.8V adjustable threshold
- USB 2.0 with USB 1.1 compatibility
- All cables, 20-clips and software included

\* Web Code: EMT



Part No.	Description	1	5
2115776	DigiView DV3100	\$499.95	\$469.95

More Testers on pages 153-154

GRANITEC

## Green Fan Cord

Designed to recognize a system's optimal operating temperature and react by turning the cooling fans on/off as the system's heating demands require.

- Wire: SPT1 105°C, 300V, Black
- Plug: NEMA 1-15P
- Length: 24" (610mm)

**NEW**  
MARKED IN PINK

MARKED IN PINK

\* Web Code: GAE



Part No.	Description	1	10
2117245	HP75-24P (45° Plug)	\$11.95	\$10.95

Complete selection of Fan Cords on page 119

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

JAMECO®  
www.Jameco.com

3 LEVELS OF SAVINGS  
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BELKIN

## CAT5e & CAT6 Cables & Adapters



**NEW**  
MARKED IN PINK

Belkin Cables & Adapters are designed for quick, snap-in installation and are universally wired for optimized, seamless interfacing with other equipment, cords, and cables. Belkin's CAT 5E/6 Snagless Crossover Patch Cables make it easy to connect computers on your Local Area Network (LAN). These cables are designed to connect hub-to-hub, PC-to-PC, or Mac-to-Mac computers.

- Extra security
- Clean and clear transmissions
- 50-micron, gold-plated connectors

\* Web Code: BCA

Part No.	Mfr. Part No.	Description	1	5
2115573	354003XR	CAT5e Modular Networking Cable, UTP, Red 3'	\$2.49	\$2.25
2115581	360001R	CAT6 Patch Cable, Gray, 1'	2.25	1.95
2115590	362001R	CAT6 Patch Cable, Yellow, 1'	2.25	1.95
2115602	364001R	CAT6 Patch Cable, Red, 1'	2.25	1.95

Belkin's External Serial ATA Cables (eSATA Cables) provide a fast and reliable solution for transferring valuable digital data, improving performance for internal PC's and external storage.

- Connect to external hard drive, PVR/DVR, or set-top box
- Up to six times faster than USB2.0 and 1394 external storage solutions

Part No.	Mfr. Part No.	Description	1	10
2115653	F2N1192-06-WR	eSATA Cable	\$11.95	\$10.95
2115645	F2N1192TT03-APL	eSATA Cable	11.95	10.95
2115629	F8V210TT	RCA Female-to-Female adapter, silver	.55	.49
2115637	F8V211TT	Adapter 3.5" Stereo Male to	.69	.59
2115611	AV22400B-12R	1/4" Stereo Female, Black Cable HDMI Male to DVI Male, 12'	14.95	13.49

More Cables & Adapters on pages 185-187

## wellement / CESEK Hi-Fi Audio Kits

Challenge your solder skills with these audio kits. Build your own Voice Recorder or an MP3 player with audio outputs or an Audio Analyzer with LCD that will give your audio gear a high-tech look.



**NEW**  
MARKED IN PINK

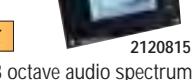
2119734

Part No.	Description	Difficulty	1	5
2119734	20 sec. Voice Recorder, pre-assembled	—	\$14.95	\$13.49
2120815	Audio Analyzer, 123 solder pts	Advanced	74.95	69.95
2120823	MP3 Player Project, 230 solder points	Advanced	89.95	84.95

Audio Kits on page 190

## 80-Watt High-Power Stained Glass Soldering Station

An 80W temperature controlled soldering station adjustable between 250 and 500°C, suitable for hobby, technician and production use.



2120815

- Fully adjustable temperature control
- 80W heating element for fast heat-up and quick temperature recovery
- Zero voltage switching protects sensitive devices from damage caused by transient voltage spikes
- Burn-resistant soldering iron cable
- Ideal for lead-free soldering
- LED indication when temperature setting is achieved
- Supplied complete with instructions, fitted UK 13A plug, stand, cleaning mesh, conical and 6mm chisel soldering tips and key for tip changing
- Replacement soldering iron and tips available separately
- Soldering stations, Xytronic, soldering equipment, 80W temperature controlled soldering station

**NEW**  
MARKED IN PINK

\* Web Code: GEJ

Part No.	Mfr. Part No.	Description	1	5
2118467	LT-80R	80 watt	\$49.95	\$44.95

Additional Soldering Stations on pages 166-167

Details on page 197.



## Prototyping Boards

Soldering doesn't have to be messy or difficult. SchmartBoard™ Prototyping Boards take the guess work out of designing circuit boards for surface mount or through hole components. These prototyping boards are easy to solder, no experience necessary and can accommodate various surface mount discrete components as well as integrated circuits.

- Strategically placed grounding holes and male header pad patterns for bread boarding and prototyping applications
- Utilizes EZ technology to assure fast, easy, and flawless soldering
- For more details please see page 177 or [www.Jameco.com](http://www.Jameco.com) for spec. sheets



\*Web Code: ADS

Part No.	Mfr. Part No.	Description	1	5
2116912	201-0302-01R	Thru hole board, 4" x 4"	\$14.95	\$13.95
2116980	202-0034-01R	Discrete surface mount board, 2" x 2"	9.95	8.95
2116947	202-0007-01R	SO/SOP board, 2" x 2"	9.95	8.95
2116955	202-0009-02R	QFP board, 2" x 2"	9.95	8.95
2116971	202-0017-01R	CHIPSCALE QFN board, 2" x 2"	9.95	8.95

**NEW**  
MARKED IN PINK

2116947

2116971

Additional Prototyping Boards on pages 175-178

## Photofabrication, Exposure & Economy Etching Kit

Jameco welcomes MG Chemicals to our broad supplier line up. MG Chemicals is a full line supplier of innovative and legacy chemical solutions. The kits below allow you to produce professional printed circuit boards quickly and at a lower cost than a professional design house.

### 2121017: Photofabrication kit

- 3 single sided presensitized PCB boards (3" x 5", 4" x 6" and 6" x 6")
- Instruction sheet 2121017
- Chemicals: developer and ferric chloride
- Foam brushes, development tray, rubber gloves

\*Web Code: MGC



### 2121025: Exposure kit

- Fluorescent light fixture w/ stand
- Daylight fluorescent bulb
- Acrylic weight for artwork
- Instruction sheet 2121025



### 2121033: Economy Etching kit

- 5 liter etching tank
- Air pump and tubing, spraying unit, vinyl gloves
- Instruction sheet 2121033



Part No.	Description	NEW	1	5
2121017	416-K photofabrication kitR	MARKED IN PINK	\$69.95	\$64.95
2121025	416-X exposure kitR		69.95	64.95
2121033	416-ES economy etching kitR		69.95	64.95

More Prototyping Chemicals on pages 175-176



## NiZn Rechargeable Batteries

Finally, a rechargeable battery that can exceed the voltage of common single use Alkaline batteries. The PowerGenix battery has up to 33% more energy density over standard rechargeable batteries. Typical rechargeable batteries only produce 1.20 Volts, while these environmental-friendly, Nickel-Zinc batteries produce 1.60 Volts! NiZn technology is perfectly suited for high-tech devices like MP3 players, digital cameras, toys and LED lights.

### 2115856: 1.50 Hour NiZn Quick Charger

### 2115821: 3-5 Hour NiZn Fast Charger

- Charges 1-4 AA NiZn rechargeable batteries at a time
- Universal voltage for ease-of-use while traveling (100-240VAC, 50/60Hz)
- Includes: 4 AA NiZn Batteries
- LED lights indicate charging status



\*Web Code: PGX

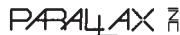
### 2115848: AA NiZn 8-Pack; 2115830: AA NiZn 4-Pack

- Made for high-drain applications
- Can only be charged with a NiZn charger
- 1.60V - equivalent to an Alkaline battery (~1560mAh)
- 30% more voltage than NiMh batteries

Part No.	Description	1	5
2115856	NiZn Quick Charger, 1.50 Hours	\$34.95	\$31.95
2115821	NiZn Fast Charger, 3-5 Hours	24.95	22.95
2115848	NiZn AA 8 Battery Pack	24.95	22.95
2115830	NiZn AA 4 Battery Pack	14.95	13.49

Complete selection of Batteries on pages 147-149

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) More and Enter Web Code Listed Above



## Xbee Wireless RF Modules

The Digi Xbee 802.15.4 modules are easy-to-use, cost-effective RF devices that provide two friendly modes of communication. Use for remote controlled robots, wireless data acquisition, remote signal beacons, remote industrial control, lighting control or keyless entry.



**NEW**  
MARKED IN PINK



2113412

- Point-to-point, point-to-PC, or mesh network
- Cross compatible w/ other Xbee 802.15.4 modules
- 2.4GHz operating frequency
- Six 10-bit ADC inputs, 8 digital I/O
- 1200bps - 250kbps RF data rate

\*Web Code: PXB

1

5

Part No.	Description	1	5
2113375	1mW, up to 300 ft. outdoor range (line of sight)R	\$26.95	\$24.95
2113391	60mW, up to 1 mile outdoor range (line of sight)R	\$46.95	43.95
2113421	USB adapter board & interface, 0.1" spacingR	27.95	25.95
2113412	(cable required, Jameco P/N: 2110721) Kit form, adapter board, 0.1" spacingR	3.49	3.25

More Parallax Modules on pages 194 & 195

## DataBridge™ Wireless I/O Modules

Starman Electric introduces the DataBridge; a new wireless module designed to make point-to-point wireless control and data acquisition easier than ever. These modules offer a simple and reliable bridging of analog, digital, and Serial UART signals between two points. Two modules automatically link together, requiring no software configuration or programming.

**NEW**  
MARKED IN PINK



2119961/2119970

- Wireless cable replacement, remote data measurement, low latency wireless analog or digital control
- 6 digital I/O, 2 analog I/O, 1 UART Tx/Rx
- QPSK/DSSS frequency modulation 2119970
- 200 samples/second
- 2.4GHz frequency hopping over 16 channels
- FCC, Canadian, ETSI certified

Part No.	Description	1	5
2119961	1mW, internal ceramic antenna, up to 0.625 mi range (line of sight)R	\$86.95	\$79.95
2119970	100mW, SMA connector, up to 2.5 mi range (line of sight)	99.95	94.95

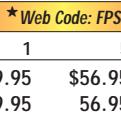
## ProtoFlex

ProtoFlex has devised a flexible, self-adhesive adapter system that makes it easier to integrate SOIC, TSSOP, SOT, D-Sub, and other small components into your prototyping design. The precut adapters can be applied to virtually any surface.



- 3 mil thick design keeps components low profile
- Unique, dual, asymmetric hole pattern for multiple connection points
- Multiple silk-screen blocks for reference and pin identification
- Large pads allow for easy surface mounting of wires

**NEW**  
MARKED IN PINK



\*Web Code: FPS

Part No.	Description	1	5
2121201	SOIC, 5 ea. of 8, 14, 16, and 20-pin adapters	\$59.95	\$56.95
2121210	TSSOP/SSOP, 5 ea. of 8, 14, 16, and 20-pin adapters, .65mm pitch	59.95	56.95
2121228	Variety of common SOT, SC-70, DD-PAK, 1206, and other SMT layouts	59.95	56.95
2121236	IDC ribbon, 4 ea. of 10, 20, and 34-pin configurations, 2.54mm pitch	59.95	56.95
2121244	D-Sub interface, 4 ea. 9, 15, and 25-pin configurations, 2.74mm pitch	59.95	56.95
2121252	Kapton insulators, 3 mil, for electrical and thermal insulation, pre-cut	19.95	18.95
2121261	Protoboard alignment tool, board must have 1.06mm dia. holes	59.95	54.95
2121279	Tool accessory kit, 4 alignment pins, 4 screws, foam pad, case	24.95	22.95
2121287	4 replacement pins for alignment tool, 1.29 1.15mm pin dia., fits 1.06mm board holes	1.29	1.15

More Prototyping products on pages 175-178

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com](http://www.Jameco.com) More and Enter Web Code Listed Above

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## Great Products. Awesome Prices. Reach for Jameco First!

### \*\*\* FEATURED PRODUCTS \*\*\*



iLoad Mini



### iLoad USB Load Cell Kits

Software Included

iLoad TR



Software Included

iLoad Pro



\* Web Code: CLL

Hot NEW Products!



Loadstar Sensors' award winning capacitive load cells offer unmatched ease of use in a low profile, rugged and integrated package. Our load cell offers USB output without the need for any special signal conditioning equipment. These sensors are excellent for R & D labs, universities and test facilities which need to quickly measure loads and forces, log data and visualize the data as a force vs. time plot.

- All products made in the USA
- CE, UL & FCC Approved
- USB Load Cell software with logging/plotting features included

### LoadVUE Pro 1000 USB Load Cell Software

- View force/load in Pounds, Kilograms, Newtons or Ounces
- Log data to Excel friendly file at user selected intervals
- Up to 150 samples per second
- Plot data as force vs. time graph
- Periodically send force data to email address or mobile phone via SMS



Part No.	Description	Price
2120903	10 lb. iLoad mini kit	\$289.95
2120911	50 lb. iLoad mini kit	289.95
2120920	100 lb. iLoad mini kit	289.95
2120938	200 lb. iLoad mini kit	289.95
2120946	5 lb. iLoad TR kit	389.95
2120954	10 lb. iLoad TR kit	389.95
2120962	50 lb. iLoad TR kit	389.95
2120971	100 lb. iLoad Pro kit	489.95
2120989	250 lb. iLoad Pro kit	489.95
2120997	500 lb. iLoad Pro kit	489.95
2121009	1000 lb. iLoad Pro kit	489.95

### SUNON

Jameco has just added more Sunon Fans to its robust offering in an attempt to satisfy our customer's requests for various applications, sizes and voltages. For Jameco's entire offering of fans please see pages 115-119 or visit [www.Jameco.com](http://www.Jameco.com).

- Available in 2 wire for easy application or in 3 wire for speed sensor applications
- All fans are Green/ROHS compliant
- Equipped with a Dual Ball Bearing system that allows for less friction and longer life
- Sizes are industry standard ranging from 30mm to 120mm

Part No.	Mfg Part No.	Description	1	10
2120031	GM0503PEV1-8N.GN	30 x 30 x 10 mm, 5V, 5.5 CFM, 2 wire	\$11.95	\$10.95
2120057	KD0504PKB2 (2).GN	40 x 40 x 20 mm, 5V, 7.7 CFM 2 wire	7.95	6.95
2120065	KD1204PKB2 (2).GN	40 x 40 x 20 mm, 12V, 7.7 CFM 2 wire	6.95	6.25
2120073	KD1206PKB2 (2).F.GN	60 x 60 x 20 mm, 12V, 19 CFM 3 wire	7.95	6.95
2120081	KDE1206PTV3.13.MS.AF.GN	60 x 60 x 25 mm, 12V, 16 CFM 3 wire	7.95	6.95
2120129	PMD2412PTB3-A (2).GN	120 x 120 x 25 mm, 24V, 120 CFM 2 wire	12.95	11.49
2120137	PMD4809PMB3-A (2).GN	92 x 92 x 38 mm, 48V, 91.7 CFM 2 wire	15.95	14.49
2120145	PMD4812PMB1-A (2).GN	120 x 120 x 38 mm, 48V, 190 CFM 2 wire	17.95	15.95

Complete selection of Fans on pages 116-120

### Contact Information

Order Desk 24/7, 365 Days a Year

Phone: 1-800-831-4242

Fax: 1-800-237-6948

E-mail: [Sales@Jameco.com](mailto:Sales@Jameco.com)

Technical Support

Phone: 1-800-831-4242

E-mail: [Tech@Jameco.com](mailto:Tech@Jameco.com)

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Phone: 1-800-536-4316

E-mail: [CustService@Jameco.com](mailto:CustService@Jameco.com)

Credit Department

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Fax: 650-802-1583

E-mail: [Credit@Jameco.com](mailto:Credit@Jameco.com)

International Order Desk

Phone: 650-592-8097

Fax: 650-592-2503

E-mail: [International@Jameco.com](mailto:International@Jameco.com)

The Jameco RobotStore

Website: [www.RobotStore.com](http://www.RobotStore.com)

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