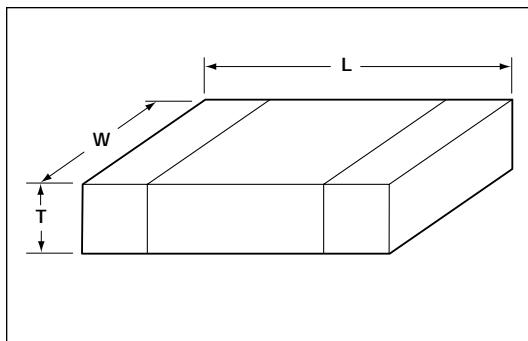


Multilayer Ceramic Chip Capacitor

Standard EIA Sizes



HOW TO ORDER

0603 5 A 271 J A T 2 A

(1) (2) (3) (4) (5) (6) (7) (8) (9)

(1) **Size:** 0402, 0603, 0805, 1206, 1210, 1812, 1825

(2) **Voltage:** 10V=Z, 16V=Y, 25V=3, 50V=5, 100V=1, 200V=2

(3) **Dielectric:** NP0=A, X7R=C, Z5U=E, Y5V=G

(4) **Capacitance Code**

(5) **Tolerance:**

F=±1% (≥50pF), G=±2% (≥25pF), J=±5%

K=±10%, M=±20%, Z=+80, -20%

(6) **Failure Rate:** A = Standard

(7) **Termination:**

T = Plated Ni and Solder

(8) **Packaging:**

2 = 7" Reel/unmarked

4 = 13" Reel/unmarked

(9) **Special Code:**

A = Standard Product

Dimensions: millimeters (inches)

	L	W	T
0402	1.0±0.1 (0.039±0.004)	0.5±0.1 (0.020±0.004)	0.6 max. (0.024 max.)
0603	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.9 max. (0.035 max.)
0805	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.3 max. (0.051 max.)
1206	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	1.5 max. (0.059 max.)
1210	3.2±0.2 (0.126±0.008)	2.5±0.2 (0.098±0.008)	1.7 max. (0.067 max.)
1812	4.5±0.3 (0.177±0.012)	3.2±0.2 (0.126±0.008)	1.7 max. (0.067 max.)
1825	4.5±0.3 (0.177±0.012)	6.4±0.4 (0.252±0.016)	1.7 max. (0.067 max.)

Standard Packaging

	BULK	TAPE & REEL 7"	13"
0402	50,000	10,000	N/A
0603	15,000	4,000	10,000
0805	10,000 (T=0.6mm) 5,000 (T=1.25mm)	4,000	10,000
1206	N/A	4,000	10,000
1210	N/A	4,000	10,000

Capacitance Range

Type		NP0				X7R				Z5U		Y5V					
		25V	50V	100V	200V	10V	16V	25V	50V	100V	200V	25V	50V	10V	16V	25V	50V
0402	Min.	0.5pF	0.5pF	—	—	100pF	100pF	100pF	100pF	—	—	—	—	2200pF	2200pF	2200pF	2200pF
	Max.	220pF	120pF	—	—	.047μF	6800pF	3900pF	—	—	—	—	0.1μF	.1μF	.022μF	.01μF	.01μF
0603	Min.	0.5pF	0.5pF	0.5pF	—	100pF	100pF	100pF	100pF	100pF	—	.01μF	.01μF	2200pF	2200pF	2200pF	2200pF
	Max.	1000pF	1000pF	330pF	—	.22μF	0.1μF	.047μF	.015μF	4700pF	—	.047μF	.027μF	1.0μF	.33μF	.22μF	.056μF
0805	Min.	0.5pF	0.5pF	0.5pF	0.5pF	100pF	100pF	100pF	100pF	100pF	220pF	.01μF	.01μF	.01pF	.01μF	.01μF	.01μF
	Max.	4700pF	2200pF	1000pF	470pF	2.2μF	.47μF	.22μF	.1μF	.022μF	1500pF	.12μF	.1μF	4.7μF	2.2μF	1.0μF	.33μF
1206	Min.	0.5pF	0.5pF	0.5pF	0.5pF	1000pF	1000pF	1000pF	1000pF	1000pF	330pF	.01μF	.01μF	.01μF	.01μF	.01μF	.01μF
	Max.	.01μF	4700pF	2200pF	1000pF	4.7μF	1.0μF	1.0μF	.22μF	.01μF	5600pF	.33μF	.33μF	10.0μF	4.7μF	2.2μF	1.0μF
1210	Min.	560pF	560pF	560pF	560pF	—	1000pF	1000pF	1000pF	1000pF	470pF	.01μF	.01μF	.1μF	.1μF	.1μF	.1μF
	Max.	.01μF	.01μF	3900pF	1500pF	—	4.7μF	2.2μF	.22μF	.1μF	8200pF	.56μF	.47μF	22μF	10μF	4.7μF	1.0μF
1812	Min.	1000pF	1000pF	1000pF	1000pF	—	—	.01μF	.01μF	—	.01μF	.01μF	—	—	.15μF	.15μF	.15μF
	Max.	.015μF	.01μF	4700pF	3300pF	—	—	1.0μF	.47μF	—	1.0μF	1.0μF	—	—	.15μF	.15μF	.15μF
1825	Min.	—	1000pF	1000pF	1000pF	—	—	—	.01pF	.01pF	—	.01μF	.01pF	—	—	.47μF	.47μF
	Max.	—	.022μF	.012μF	6800pF	—	—	—	1.0μF	.47μF	—	1.0μF	1.0μF	—	—	.47μF	.47μF

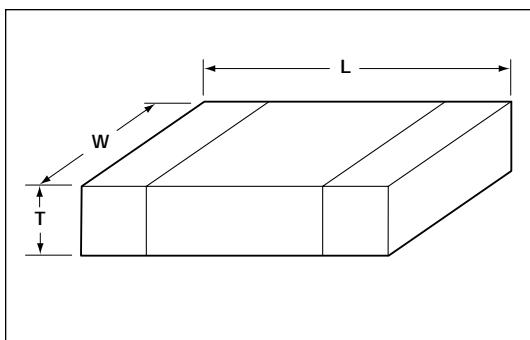
For maximum capacitance - consult factory.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #001. Visit our website <http://www.avxcorp.com>



Low Profile Chips

Z5U & Y5V Dielectric



HOW TO ORDER

1206 3 E 224 Z A T 2 T

(1) (2) (3) (4) (5) (6) (7) (8) (9)

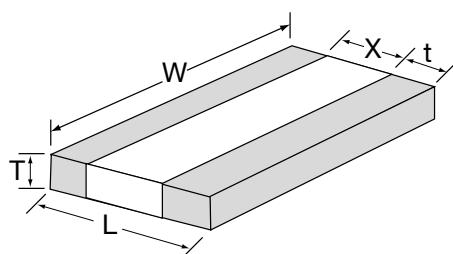
- ① **Size:** (L" x W")
- ② **Voltage:** 25V = 3
- ③ **Dielectric:** Z5U = E, Y5V = G
- ④ **Capacitance Code**
- ⑤ **Capacitance Tolerance:** Z = +80/-20%
- ⑥ **Failure Rate:** A = Not Applicable
- ⑦ **Terminations:** T = Plated Ni and Solder
- ⑧ **Packaging:** 2 = 7" Reel, 4 = 13" Reel
- ⑨ **Thickness:** T = .026" Max.
S = .022" Max.
R = .018" Max.

Type	L mm (inches)	W mm (inches)	T	Z5U 25V		Y5V 25V	
				Min.	Max.	Min.	Max.
0805	2.01 ± 0.2 (0.079 ± 0.008)	1.25 ± 0.2 (0.049 ± 0.008)	0.46 (0.018)	.01μF	.033μF	.01μF	.082μF
			0.56 (0.022)	.01μF	.05μF	.01μF	.12μF
			0.66 (0.026)	.01μF	.082μF	.01μF	.18μF
1206	3.2 ± 0.2 (0.126 ± 0.008)	1.6 ± 0.2 (0.063 ± 0.008)	0.46 (0.018)	.01μF	.082μF	.01μF	.22μF
			0.56 (0.022)	.01μF	.15μF	.01μF	.27μF
			0.66 (0.026)	.01μF	.22μF	.01μF	.33μF
1210	3.2 ± 0.2 (0.126 ± 0.008)	2.5 ± 0.2 (0.098 ± 0.008)	0.46 (0.018)	.01μF	.15μF	.01μF	.33μF
			0.56 (0.022)	.01μF	.27μF	.01μF	.39μF
			0.66 (0.026)	.01μF	.33μF	.01μF	.47μF

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #002. Visit our website <http://www.avxcorp.com>

Low Inductance Chip Capacitors

Specially Designed MLC Chips for Low Inductance



HOW TO ORDER

0508 5 C 822 M A T 1 W

(1) (2) (3) (4) (5) (6) (7) (8) (9)

① AVX Style: 0306, 0508, 0612

② Voltage: 25V = 3, 16V = Y, 10V = Z

③ Temperature Coefficient: C = X7R, G = Y5V

④ Capacitance Code: (2 significant digits + no. of zeros)

Examples: 10 pF = 100 100 pF = 101

1,000 pF = 102 22,000 pF = 223

220,000 pF = 224 1 μF = 105

⑤ Capacitance Tolerance: M = ±20% Z = +80, -20%, P = GMV K = ±10%

⑥ Failure Rate: A = Does not apply, H = High, Rel*

⑦ Termination: T = NiGuard Nickel Barrier Solder Plate

⑧ Marking Packaging: 9 = Bulk Unmarked, 1 = Reel Unmarked

⑨ Special Code: Thickness: mm (in.)

U = .51 (.020) max., V = .76 (.030) max., W = 1.02 (.040) max.

*Consult factory for details.

Capacitance Range: X7R and Y5V Dielectric

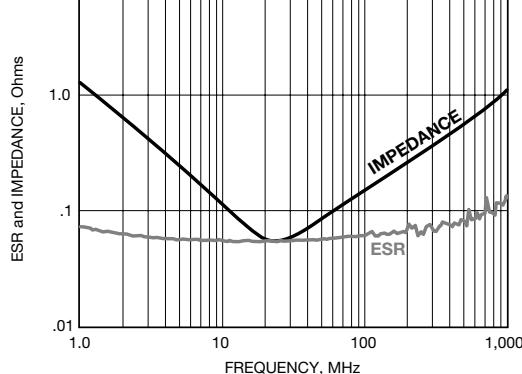
millimeters (inches)

AVX Style	0306	0508	0612
Length (L)	0.81 ± 0.15 (0.032 ± 0.006)	1.27 ± .25 (0.050 ± 0.010)	1.6 ± .25 (0.060 ± 0.010)
Width (W)	1.60 ± 0.15 (0.063 ± 0.006)	2.0 ± .25 (0.080 ± 0.010)	3.2 ± .25 (0.126 ± 0.010)
Separation (X)	0.23 (0.009)	0.38 (0.015)	0.50 (0.020)
terminal (t)*	0.38 max. / 0.13 min. (0.015 max. / 0.005 min.)	0.50 max. / 0.13 min. (0.020 max. / 0.005 min.)	0.46 max. / 0.13 min. (0.018 max. / 0.005 min.)

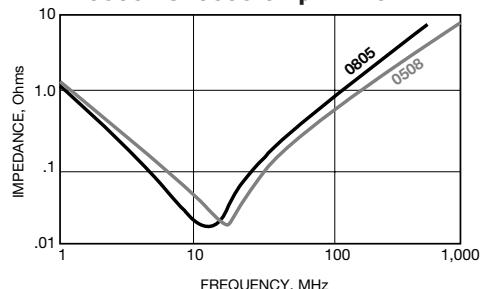
Maximum Capacitance Values, (μF)

Thickness (T)	Size	X7R			Y5V		
		10V	16V	25V	10V	16V	25V
0.050	0612	2.2	1.0	0.27	6.8	3.3	1.2
0.040	0612	1.5	0.68	0.22	4.7	1.8	.82
	0508	0.68	0.27	0.1	2.2	1.0	.47
0.030	0612	1.0	0.47	0.12	3.3	1.5	.56
	0508	0.47	0.18	0.056	1.5	.56	.22
	0612	0.47	0.18	0.056	1.5	.68	.27
0.022	0508	0.22	0.082	0.022	0.68	.33	.12
	0306	0.1					

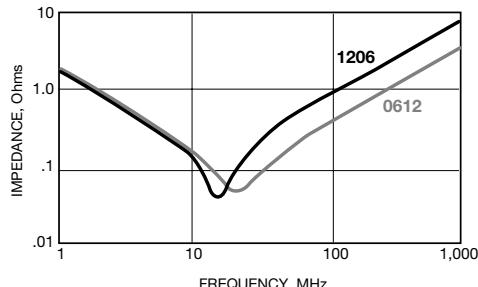
ESR and Impedance vs. Frequency 0612 0.1μF - X7R



Impedance vs. Frequency 0805 vs. 0508 0.1μF - Y5V



0612 vs. 1206



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #003. Visit our website <http://www.avxcorp.com>



Tip & Ring

Multilayer Ceramic Chip Capacitors



General Specifications

Capacitance Range	0.1 μ F to 1.2 μ F (25°C, 1.0 ± 0.2Vrms at 1kHz)
Capacitance Tolerance	±10%, ±20%
Dissipation Factor	2.5% max. (25°C, 1.0 ± 0.2Vrms at 1kHz)
Temperature Characteristic	X7R ±15% (0 VDC)
Voltage Rating	250VDC Telco Rating
IR (25°C, at 250VDC)	1000 Megaohm-Microfared min.
Dielectric Strength	250% Rated VDC for 5 seconds at 50mA max. current

HOW TO ORDER

1812 P C 104 K A T 1 A
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① AVX Style: 1812, 1825, 2220, 2225

② Voltage: 250VDC Telco Rating

③ Temperature Coefficient: X7R

④ Capacitance Code:

2 significant digits + no. of zeros

Examples: 1,000 pF = 102

22,000 pF = 223

220,000 pF = 224

1 μ F = 105

⑤ Capacitance Tolerance: K = ±10%, M = ±20%

⑥ Failure Rate: A = Not Applicable

⑦ Termination: T = Nickel Barrier and Solder Plate

⑧ Packaging: 1 = 7" Reel 1,000 pcs.

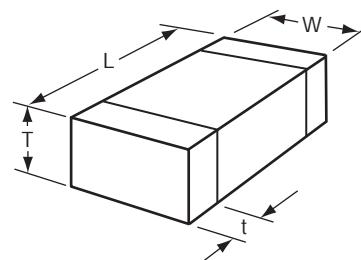
3 = 13" Reel 4,000 pcs.

9 = Bulk 500 pcs.

⑨ Special Code: A = Unmarked

Dimensions: millimeters (inches)

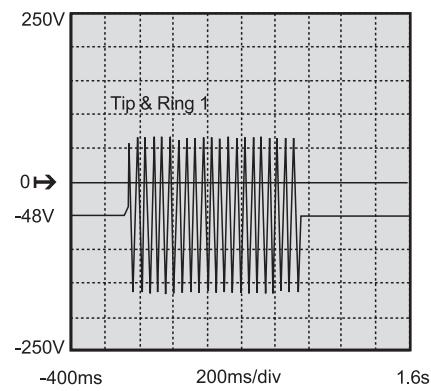
SIZE	1812	1825	2220	2225
Length (L)	4.6 ±0.3 (0.180 ±0.012)	4.6 ±0.3 (0.180 ±0.012)	5.6 ±0.3 (0.220 ±0.012)	5.6 ±0.3 (0.220 ±0.012)
Width (W)	3.2 ±0.2 (0.125 ±0.008)	6.35 ±0.4 (0.250 ±0.016)	5.1 ±0.4 (0.200 ±0.016)	6.35 ±0.4 (0.250 ±0.016)
Thickness (T)	2.0 max. (0.080 max.)	2.0 max. (0.080 max.)	2.0 max. (0.080 max.)	2.0 max. (0.080 max.)
terminal (t)	.63 ±0.38 (0.025 ±0.015)	.63 ±0.38 (0.025 ±0.015)	.63 ±0.38 (0.025 ±0.015)	.63 ±0.38 (0.025 ±0.015)
Capacitance Range μ F	0.10	0.33	0.47	0.47
	0.47	1.0	1.0	1.2



Standard Part Number Offering (Others available upon request)

1812PC104KAT1A	1825PC334KAT1A	2220PC474KAT1A	2225PC474KAT1A
1812PC124KAT1A	1825PC394KAT1A	2220PC564KAT1A	2225PC564KAT1A
1812PC154KAT1A	1825PC474KAT1A	2220PC684KAT1A	2225PC684KAT1A
1812PC184KAT1A	1825PC564KAT1A	2220PC824KAT1A	2225PC824KAT1A
1812PC224KAT1A	1825PC684KAT1A	2220PC105KAT1A	2225PC105KAT1A
1812PC274KAT1A	1825PC824KAT1A		2225PC125KAT1A
1812PC334KAT1A	1825PC105KAT1A		
1812PC394KAT1A			
1812PC474KAT1A			

"TIP & RING" Graph

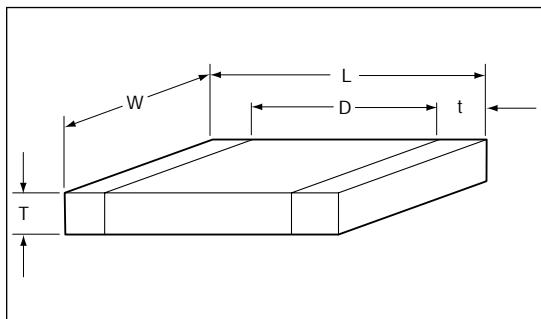


Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #004. Visit our website <http://www.avxcorp.com>

MIL-PRF-55681/MLC Chips

Military Part Number Identification

CDR01/02/03/04/05/06



Standard Packaging

	BULK
CDR01	5,000
CDR02	5,000
CDR03	3,000
CDR04	3,000
CDR05	1,000
CDR06	1,000

Military Designation Per MIL-PRF-55681

Part Number Example

(example) **CDR01 BP 101 B K S M**
 ① ② ③ ④ ⑤ ⑥ ⑦

① **MIL Style:** CDR01, CDR02, CDR03, CDR04, CDR05, CDR06

② **Voltage Temperature Limits:**

BP = 0 ± 30 ppm/ $^{\circ}$ C without voltage; 0 ± 30 ppm/ $^{\circ}$ C with rated voltage from -55 $^{\circ}$ C to +125 $^{\circ}$ C

BX = $\pm 15\%$ without voltage; +15 –25% with rated voltage from -55 $^{\circ}$ C to +125 $^{\circ}$ C

③ **Capacitance Code**

④ **Rated Voltage:** A = 50V, B = 100V

⑤ **Capacitance Tolerance:** J $\pm 5\%$, K $\pm 10\%$, M $\pm 20\%$

⑥ **Termination Finish:**

M = Palladium Silver	U = Base Metallization/Barrier
N = Silver Nickel Gold	Metal/Solder Coated*
S = Solder Coated	W = Base Metallization/Barrier
	Metal/Tinned (Tin or Tin/Lead Alloy)

⑦ **Failure Rate Level:** M = 1.0% R = .01%
 P = .1% S = .001%

Tape & Reel Quantities

All tape and reel specifications are in compliance with RS481.

	8mm	12mm
Embossed or Punched Carrier	CDR01	
Embossed Only		CDR02, CDR03, CDR04, CDR05, CDR06
Qty. per Reel/7" Reel	2,000 or 4,000 max.	1,000 max.
Qty. per Reel/13" Reel	10,000 max.	4,000 max.

Dimensions:

millimeters (inches)

Per MIL-PRF- 55681	AVX Style	Length (L)	Width (W)	Thickness (T)		D		Termination Band (t)	
				Max.	Min.	Max.	Min.	Max.	Min.
CDR01	0805	2.03 \pm .381 (0.080 \pm 0.015)	1.27 \pm .381 (0.050 \pm 0.015)	1.40 (0.055)	.508 (0.020)	—	.762 (0.030)	—	.254 (0.010)
CDR02	1805	4.57 \pm .381 (0.180 \pm 0.015)	1.27 \pm .381 (0.050 \pm 0.015)	1.40 (0.055)	.508 (0.020)	—	—	.762 (0.030)	.254 (0.010)
CDR03	1808	4.57 \pm .381 (0.180 \pm 0.015)	2.03 \pm .457 (0.080 \pm 0.018)	2.03 (0.080)	.508 (0.020)	—	—	.762 (0.030)	.254 (0.010)
CDR04	1812	7.57 \pm .381 (0.180 \pm 0.015)	3.18 \pm .381 (0.125 \pm 0.015)	2.03 (0.080)	.508 (0.020)	—	—	.762 (0.030)	.254 (0.010)
CDR05	1825	4.57 \pm .508 (0.180 \pm 0.020) -.381 (-0.015)	6.35 \pm .508 (0.250 \pm 0.020) -.381 (-0.015)	2.03 (0.080)	.508 (0.020)	—	—	.762 (0.030)	.254 (0.010)
CDR06	2225	5.72 \pm .508 (0.225 \pm 0.020)	6.35 \pm .508 (0.250 \pm 0.020)	2.03 (0.080)	.508 (0.020)	—	—	.762 (0.030)	.254 (0.010)

*For CDR11, 12, 13, and 14 see AVX Microwave Chip Capacitor Catalog

Capacitance Range, pF

MIL Type	TC	Min.	Max.	Tolerance	WVDC
CDR01	BP	10	180	$\pm 5\%, \pm 10\%$	100
	BX	120	3,300	$\pm 10\%, \pm 20\%$	100
	BX	3,900	4,700	$\pm 10\%, \pm 20\%$	50
CDR02	BP	220	270	$\pm 5\%, \pm 10\%$	100
	BX	3,900	10,000	$\pm 10\%, \pm 20\%$	100
	BX	12,000	22,000	$\pm 10\%, \pm 20\%$	50
CDR03	BP	330	1,000	$\pm 5\%, \pm 10\%$	100
	BX	12,000	33,000	$\pm 10\%, \pm 20\%$	100
	BX	39,000	68,000	$\pm 10\%, \pm 20\%$	50
CDR04	BP	1,200	3,300	$\pm 5\%, \pm 10\%$	100
	BX	39,000	56,000	$\pm 10\%, \pm 20\%$	100
	BX	82,000	180,000	$\pm 10\%, \pm 20\%$	50
CDR05	BP	3,900	5,600	$\pm 5\%, \pm 10\%$	100
	BX	68,000	150,000	$\pm 10\%, \pm 20\%$	100
	BX	220,000	330,000	$\pm 10\%, \pm 20\%$	50
CDR06	BP	6,800	10,000	$\pm 5\%, \pm 10\%$	100
	BX	390,000	470,000	$\pm 10\%, \pm 20\%$	50

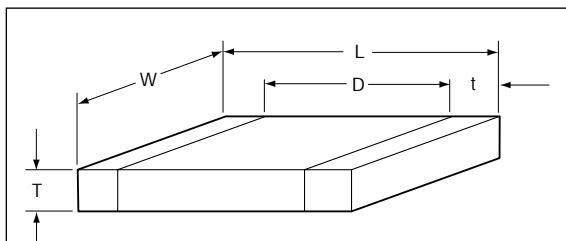
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #005. Visit our website <http://www.avxcorp.com>



MIL-PRF-55681/Chips



Military Part Number Identification CDR31/32/33/34/35



Standard Packaging

	BULK
CDR31	5,000
CDR32	5,000
CDR33	5,000
CDR34	3,000
CDR35	1,000

Tape & Reel Quantities

All tape and reel specifications are in compliance with RS481.

	8mm	12mm
Embossed or Punched Carrier	CDR31, CDR32 CDR33	
Embossed Only		CDR34, CDR35
Qty. per Reel/7" Reel	2,000 or 4,000 max.	1,000 max.
Qty. per Reel/13" Reel	10,000 max.	4,000 max.

Dimensions: millimeters (inches)

Per MIL-PRF-55681	AVX Style	Length (L)	Width (W)	Thickness (T)	D	Termination Band (t)	
				Max.	Min.	Max.	Min.
CDR31	0805	2.00 (0.079)	1.25 (0.049)	1.3 (0.051)	.50 (0.020)	.70 (0.028)	.30 (0.012)
CDR32	1206	3.20 (0.126)	1.60 (0.063)	1.3 (0.051)	—	.70 (0.028)	.30 (0.012)
CDR33	1210	3.20 (0.126)	2.50 (0.098)	1.5 (0.059)	—	.70 (0.028)	.30 (0.012)
CDR34	1812	4.50 (0.177)	3.20 (0.126)	1.5 (0.059)	—	.70 (0.028)	.30 (0.012)
CDR35	1825	4.50 (0.177)	6.40 (0.252)	1.5 (0.059)	—	.70 (0.028)	.30 (0.012)

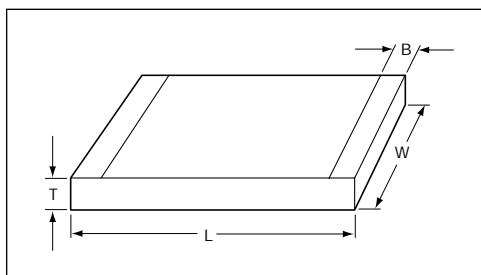
Capacitance Range, pF

MIL Type	TC	Min.	Max.	Tolerance	WVDC
CDR31	BP	1.0	9.1	±.25pF, ±.5pF	100
	BP	10	470	±1%, ±5%, ±10%	
	BX	510	680	±1%, ±2%, ±10%	50
	BX	470	4,700	±10%, ±20%	100
	BX	5,600	18,000	±10%, ±20%	50
CDR32	BP	1.0	9.1	±.25pF, ±.5pF	100
	BP	10	1,000	±1%, ±5%, ±10%	
	BX	1,100	2,200	±1%, ±5%, ±10%	50
	BX	4,700	15,000	±10%, ±20%	100
	BX	18,000	39,000	±10%, ±20%	50
CDR33	BP	1,000	2,200	±1%, ±5%, ±10%	100
	BP	2,400	3,300	±1%, ±5%, ±10%	50
	BX	15,000	27,000	±10%, ±20%	100
	BX	39,000	100,000	±10%, ±20%	50
CDR34	BP	2,200	4,700	±1%, ±5%, ±10%	100
	BP	5,100	10,000	±1%, ±5%, ±10%	50
	BX	27,000	56,000	±10%, ±20%	100
	BX	100,000	180,000	±10%, ±20%	50
CDR35	BP	4,700	10,000	±1%, ±5%, ±10%	100
	BP	11,000	22,000	±1%, ±5%, ±10%	50
	BX	56,000	150,000	±10%, ±20%	100
	BX	180,000	470,000	±10%, ±20%	50

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #006. Visit our website <http://www.avxcorp.com>

Microwave Thin-Film Chip Capacitors

Accu-F® Series



Dimensions: millimeters (inches)

	0603	0805
L	1.6±0.1 (0.063±0.004)	2.01±0.1 (0.079±0.004)
W	0.81±0.1 (0.032±0.004)	1.27±0.1 (0.050±0.004)
T	0.63±0.1 (0.025±0.004)	0.63±0.1 (0.025±0.004)
B	0.30±0.1 (0.012±0.004)	0.30±0.1 (0.012±0.004)

*For other chip sizes please consult factory.

HOW TO ORDER

0603 5 J 120 G A W TR
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Size code

② Voltage: 3 = 25V, 5 = 50V, 1 = 100V

③ Temperature Coefficient:

J = 0±30ppm/°C

K = 0±60ppm/°C

④ Capacitance Code

⑤ Tolerance:

For C≤5.6pF: A = ±0.05pF, B = ±0.1pF, C = ±0.25pF

For 5.6pF<C<10pF: B = ±0.1pF, C = ±0.25pF,

D = ±0.5pF

For C≥10pF: F = ±1%, G = ±2%, J = ±5%

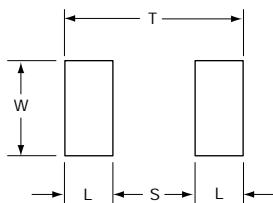
⑥ A = Accu-F®

⑦ Termination:

W = Ni/Solder Coated (Sn63, Pb37)

⑧ Packaging: TR = 7" Tape and Reel

TR/3 = 13" Tape and Reel



Recommended Pad Layout

	L	W	S	T
0603	1.0 (0.039)	0.8 (0.031)	0.8 (0.031)	2.8 (0.110)
0805	1.0 (0.039)	1.3 (0.051)	1.0 (0.039)	3.0 (0.118)

Units: mm (inches)

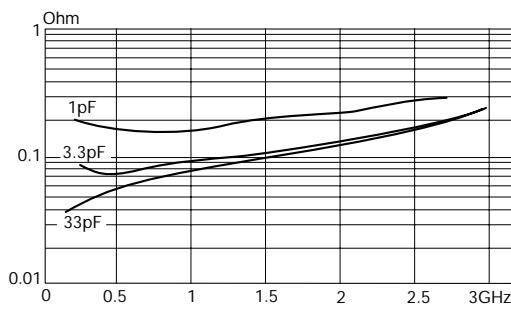
Standard Packaging

	TAPE & REEL 7"	13"
0603	3,000	10,000
0805	3,000	10,000

Capacitance Range, pF

Size		Temp. Characteristic J			Temp. Characteristic K		
		25V	50V	100V	25V	50V	100V
0603	min. max.	0.1 22	0.1 15	0.1 4.7	0.1 22	0.1 15	0.1 4.7
0805	min. max.	0.1 47	0.1 33	0.1 10	0.1 100	0.1 33	0.1 15

ESR ACCU-F® 0805



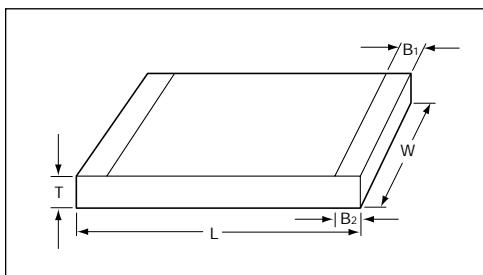
Measured on Boonton 34-A
(34-A limits measurements to 3 GHz)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #007. Visit our website <http://www.avxcorp.com>



Microwave Thin-Film Chip Capacitors

Accu-P® Series



Dimensions: millimeters (inches)

	0402	0603	0805	1210
L	1.00±0.1 (0.039±0.004)	1.60±0.1 (0.063±0.004)	2.01±0.1 (0.079±0.004)	3.02±0.1 (0.119±0.004)
W	0.55±0.07 (0.022±0.003)	0.81±0.1 (0.032±0.004)	1.27±0.1 (0.050±0.004)	2.5±0.1 (0.100±0.004)
T	0.40±0.1 (0.016±0.004)	0.63±0.1 (0.025±0.004)	0.93±0.2 (0.037±0.008)	0.93±0.2 (0.037±0.008)
B ₁	0.00+0.10/-0 (0.00+0.004/-0)	0.35±0.15 (0.014±0.006)	0.30±0.1 (0.012±0.004)	0.43±0.1 (0.017±0.004)
B ₂	0.20±0.1 (0.008±0.004)	—	—	—

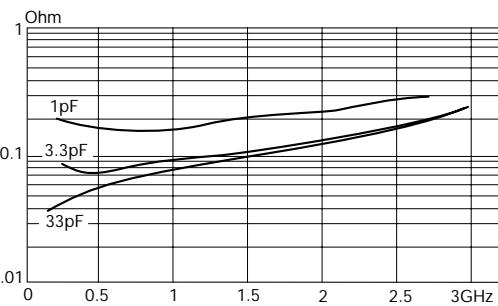
Standard Packaging

	TAPE & REEL	
	7"	13"
0402	5,000	20,000
0603	3,000	10,000
0805	3,000	10,000
1210	3,000	10,000

Capacitance Range, pF

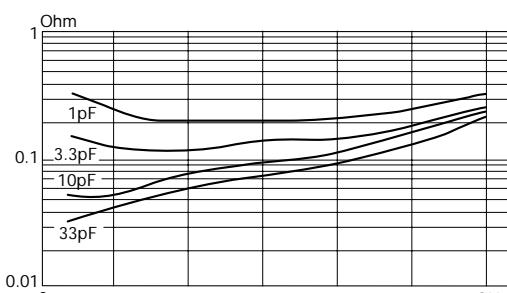
Size	Temp. Characteristic J										Temp. Characteristic K							
	10V		16V		25V		50V		100V		25V		50V		100V			
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
0402	0.1	7.5	0.1	10	0.1	12												
0603					0.1	24	0.1	12										
0805					0.1	33	0.1	27	0.1	8.2	0.1	47	0.1	33	0.1	12		
1210							0.1	27	0.1	33			0.1	47	0.1	33		

ESR
ACCU-P® 0805



Measured on Boonton 34-A
(34-A limits measurements to 3 GHz)

ESR
ACCU-P® 1210



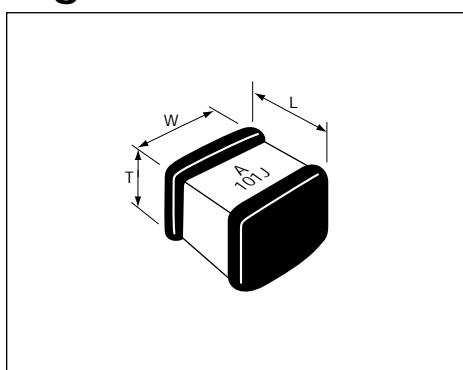
Measured on Boonton 34-A
(34-A limits measurements to 3 GHz)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #008. Visit our website <http://www.avxcorp.com>



Microwave Multilayer Capacitors

High "Q" - AQ Series



Standard Packaging

	TAPE & REEL 7"	WAFFLE 13"	
AQ11	2,000	10,000	100
AQ12	2,000	10,000	100
AQ13	2,000	10,000	48
AQ14	2,000	10,000	48

HOW TO ORDER

AQ 11 E M 100 J A 1 B A
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① AVX Style

② Case Style: 11, 12, 13, 14

③ Voltage: 50V=5, 150V=E, 300V=9, 100V=1, 200V=2, 500V=7

④ Temperature Coefficient: M=+90±20ppm/°C, A=0±30ppm/°C

⑤ (2 Significant digits + no. of zeros)

Examples: 10pF=100, 100pF=101, 1000pF=102

⑥ Capacitance B=±.1pF C=±.25pF D=±.5pF F=±1%
 Tolerance: G=±2% J=±5% K=±10% M=±20%

⑦ Failure Rate: A=Not applicable

⑧ Terminations:

1=Pd/Ag, 7=Ag/Ni/Au, J=Nickel barrier: Sn/Pb (60/40)

⑨ Packaging: B=Bulk, M=7" reel, R=13" reel, W=Waffle pack

⑩ Special Code: A=Standard

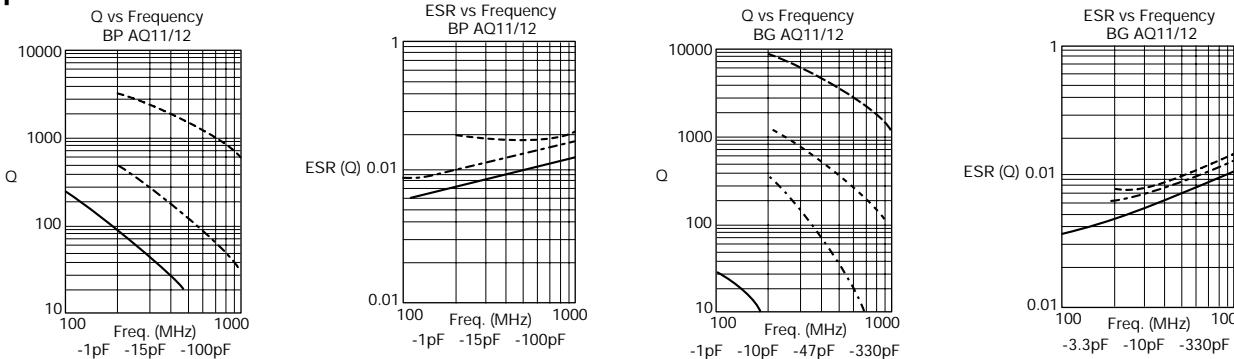
Mechanical Dimensions: millimeters (inches)

Case	Length (L)	Width (W)	Thickness (T)	Band Width	Avail. Termination
AQ06	1.60±.152 (0.063±0.006)	.813±.152 (0.032±0.006)	.889 (0.035) max.	.357±.152 (0.014±0.006)	J
AQ11	1.40±.381 (0.055±0.015)	1.40±.381 (0.055±0.015)	.508/1.45 (0.020±0.057)	.254+.254-.127 (0.010+0.010-0.005)	1, 7
AQ12	1.40±.381 (0.055±0.015)	1.40±.381 (0.055±0.015)	.508/1.45 (0.020±0.057)	.254+.254-.127 (0.010+0.010-0.005)	J
AQ13	2.79±.508 (0.110±0.020)	2.79±.508 (0.110±0.020)	.762/2.59 (0.030±0.102)	.381+.254 (0.015±0.010)	1, 7
AQ14	2.79±.508 (0.110±0.020)	2.79±.508 (0.110±0.020)	.762/2.59 (0.030±0.102)	.381+.254 (0.015±0.010)	J

Capacitance Range, pF

	A (0±30ppm/°C)					M (+90±20ppm/°C)					C (±15%)	
	50V	150V	200V	300V	500V	50V	150V	200V	300V	500V	50V	
AQ06	min. max.	— —	— —	— —	— —	68 120	0.1 62	— —	— —	— —	— —	
AQ11	min. max.	110 1000	0.1 100	— —	— —	— —	0.1 100	— —	— —	— —	— —	
AQ12	min. max.	110 1000	0.1 100	— —	— —	— —	0.1 100	— —	— —	— —	1000 10000	
AQ13	min. max.	1100 5100	510 1000	220 470	110 200	0.1 100	— —	510 1000	220 470	110 200	0.1 100	— —
AQ14	min. max.	1100 5100	510 1000	220 470	110 200	0.1 100	— —	510 1000	220 470	110 200	0.1 100	5000 10000

Typical Performance Curves

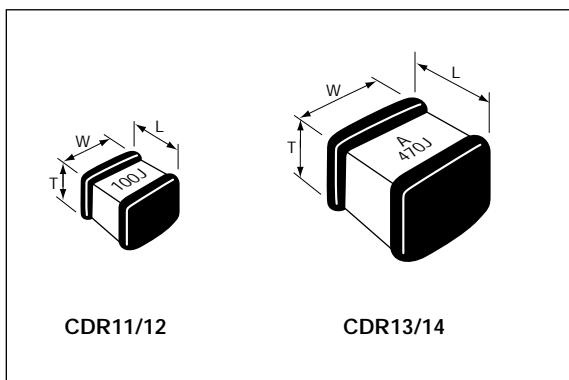


Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #009. Visit our website <http://www.avxcorp.com>



MIL-PRF-55681/4 RF/Microwave Chips

CDR11/12, 13/14



Standard Packaging

	TAPE & REEL 7"	TAPE & REEL 13"	WAFFLE
CDR11	2,000	10,000	100
CDR12	2,000	10,000	100
CDR13	2,000	10,000	48
CDR14	2,000	10,000	48

HOW TO ORDER

CDR12 BG 101 A K U M
 ① ② ③ ④ ⑤ ⑥ ⑦

① MIL Style: CDR11, CDR12, CDR13, CDR14

② Voltage Temperature Limits:

BG = $+90 \pm 20$ ppm/ $^{\circ}$ C with and without rated voltage from -55 $^{\circ}$ C to +125 $^{\circ}$ C

BP = 0 ± 30 ppm/ $^{\circ}$ C with and without rated voltage from -55 $^{\circ}$ C to +125 $^{\circ}$ C

③ Capacitance Code

④ Rated Voltage: A = 50V B = 100V C = 200V
 D = 300V E = 500V

⑤ Capacitance Tolerance:

B = ± 1 pF C = $\pm .25$ pF D = $\pm .5$ pF F = $\pm 1\%$,
 G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$

⑥ Termination Finish (Military Designations):

M = Palladium/Silver CDR11/13 only

N = Silver, Nickel, Gold CDR11/13 only

S = Solder Coated, Final CDR12/14 only

U = Base Metallization, Barrier Metal, Solder Coated (Solder M.P. 200 $^{\circ}$ C or Less)
 CDR12/14 only

W = Base Metallization, Barrier Metal, Tinned (Tin or Tin/Lead Alloy) CDR12/14 only

⑦ Failure Rate Level:

M, P, R & S

Dimensions: millimeters (inches)

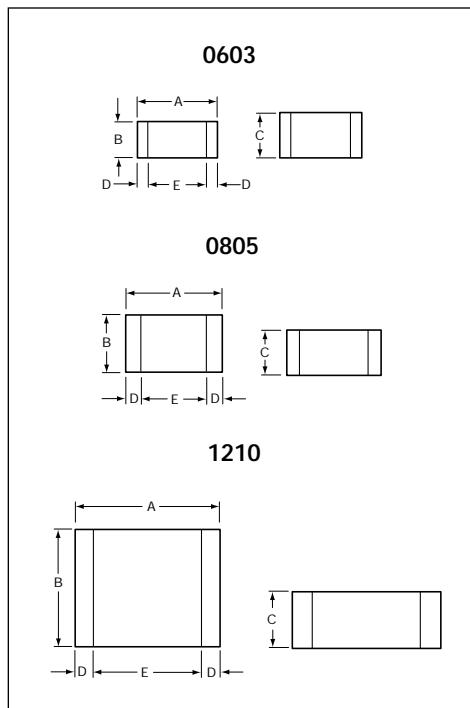
Per MIL-PRF-55681	AVX Style	Length (L)	Width (W)	Thickness (T) Max	Thickness (T) Min	Termination Band (TB) Max	Termination Band (TB) Min	Available Termination
CDR11	AQ11	1.40 \pm .381 (0.055 \pm 0.015)	1.40 \pm .381 (0.055 \pm 0.015)	1.45 (0.057)	.508 (0.020)	.508 (0.020)	.127 (0.005)	M, N
CDR12	AQ12	1.40 \pm .635 (0.055 \pm 0.025)	1.40 \pm .381 (0.055 \pm 0.015)	1.45 (0.057)	.508 (0.020)	.508 (0.020)	.127 (0.005)	S, U, W
CDR13	AQ13	2.79 \pm .508 (0.110 \pm 0.020)	2.79 \pm .508 (0.110 \pm 0.020)	2.59 (0.102)	1.47 (0.058)	.635 (0.025)	.127 (0.005)	M, N
CDR14	AQ14	2.79 +.889 -.508 (0.110+0.035,-0.020)	2.79 \pm .508 (0.110 \pm 0.020)	2.59 (0.102)	1.47 (0.058)	.635 (0.025)	.127 (0.005)	S, U, W

Capacitance Range

	50V	50V	200/500V	200/300V	200V	100V
Voltage-Temp.	BG, BP	BP	BG, BP	BG, BP	BG, BP	BG, BP
CDR11	0.1pF ~ 100pF	110pF ~ 1,000pF				
CDR12	0.1pF ~ 100pF	110pF ~ 1,000pF				
CDR13	—	680pF ~ 5100pF	0.1pF ~ 100pF	110pF ~ 200pF	220pF ~ 470pF	510pF ~ 620pF
CDR14	—	680pF ~ 5100pF	0.1pF ~ 100pF	110pF ~ 200pF	220pF ~ 470pF	510pF ~ 620pF

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #010. Visit our website <http://www.avxcorp.com>

Microwave NPO Chip Capacitors



HOW TO ORDER

0805 1 U 100 J A T M A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Case Size

② Voltage: A = 50V B = 100V C = 200V

③ Dielectric = Ultra Low ESR

④ Capacitance Code

⑤ Capacitance Tolerance:

B=±.1pF C=±.25pF D=±.5pF F=±1%
G=±2% J=5% K=10% M=±20%

⑥ A = Not applicable

⑦ Termination

⑧ Packaging: M = 7" reel embossed tape/marked
R = 13" reel embossed tape/marked
9 = Bulk

⑨ Standard: 2 = 7" reel paper tape/unmarked
4 = 13" reel paper tape/unmarked

Standard Packaging

	BULK	TAPE & REEL 7" 13"	
0603	5,000	4,000	10,000
0805	5,000	4,000	10,000
1210	5,000	4,000	10,000

Dimensions: millimeters (inches)

Size	A	B	C	D	E
0603	1.52±.25 (0.060±0.010)	.76±.25 (0.030±0.010)	.91 (0.036) max.	.25±.13 (0.010±0.005)	.76 (0.030) min.
0805	2.01±.2 (0.079±0.008)	1.25±.2 (0.049±0.008)	1.02±.127 (0.040±0.005)	.51±.255 (0.020±0.010)	.51 (0.020) min.
1210	3.2±.2 (0.126±0.008)	2.49±.2 (0.098±0.008)	1.27±.127 (0.050±0.005)	.635±.381 (0.025±0.015)	1.02 (0.040) min.

Capacitance Range - NP0 (C0G)

Cap (pF)	Available Tolerance	Size		
		0603	0805	1210
1.0	BCD	50V	100V	200V
1.1		↑	↑	↑
1.2				
1.3				
1.4				
1.5				
1.6				
1.7				
1.8				
1.9				
2.0				
2.1				
2.2				
2.4				
2.7				
3.0				
3.3				
3.6				
3.9				
4.3				
4.7				
5.1				
5.6				
6.2				
6.8	BCDKM	50V	100V	200V

Cap (pF)	Available Tolerance	Size		
		0603	0805	1210
7.5	BCJKM	50V	100V	200V
8.2	◆	↑	↑	↑
9.1	BCJKM			
10	FGJKM			
11				
12				
13				
15				
16				
18				
20				
22				
24				
27				
30				
33				
36				
39				
43				
47				
51				
56				
68				
75				
82				
91	FGJKM	50V N/A	100V	200V

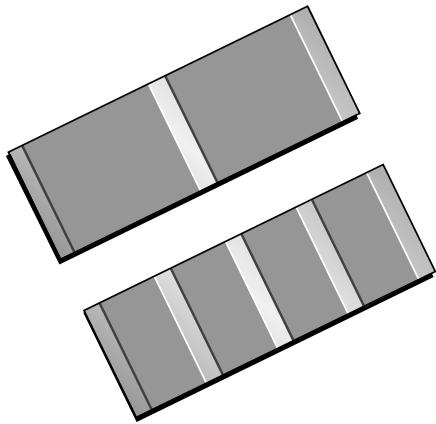
Cap (pF)	Available Tolerance	Size		
		0603	0805	1210
100	FGJKM	N/A	100V	200V
110		↑	↓	
120				
130				
140				
150				
160				
180				
200				
220				
270				
300				
330				
360				
390				
430				
470				
510				
560				
620				
680				
750				
820				
910				
1000				

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #011. Visit our website <http://www.avxcorp.com>



Microwave Multi-Cap SLC's

Multi-Cap Series



HOW TO ORDER

GH B 5 5 A 6R8 K N 6

(1) (2) (3) (4) (5) (6) (7) (8) (9)

(1) Type

(2) Array Code: B = 2, C = 3, D = 4, E = 5, F = 6

(3) Size Code: 2 = .020" W 3 = .030" W 5 = .050" W
Y = .025" W 4 = .040" W S = Special

(4) Working Voltage Code: 5 = 50WVDC, 1 = 100WVDC

(5) Dielectric Code

(6) Capacitance: EIA Capacitance Code in pF

First two digits = significant figures or "R" for decimal place
Third digit = number of zeros or after "R" significant figures

(7) Capacitance Tolerance:

<10pF	>10pF
A = ±0.05pF (special order)	J = ±5%
B = ±0.1pF	K = ±10%
C = ±0.25pF	M = ±20%
D = ±0.5pF	

(8) Termination: N = 99.99% pure sputtered gold over Ni.
(≈1000 Å thickness)

(9) Packaging: 6 = Waffle Pack
6N = Antistatic Waffle Pack

GHB Series: Dual Cap Single Layer Capacitors

millimeters (inches)

GHB2	GHBY	GHB3	GHBZ	GHB5
L=1.27±.254 (0.050±0.010)	L=2.03±.381 (.080±.015)	L=2.03±.381 (.080±.015)	L=2.03±.381 (.080±.015)	L=2.03±.381 (.080±.015)
W=.508±.127 (0.020±0.005)	W=.635±.127 (0.025±0.005)	W=.762±.254 (0.030±0.010)	W=.889±.254 (0.035±0.010)	W=1.27±.254 (0.050±0.010)
T=.178±.076 (0.007±0.003)	T=.178±.076 (0.007±0.003)	T=.178±.076 (0.007±0.003)	T=.178±.076 (0.007±0.003)	T=.178±.076 (0.007±0.003)
Gap=.254±.076 (0.010±0.003)	Gap=.254±.076 (0.010±0.003)	Gap=.254±.076 (0.010±0.003)	Gap=.254±.076 (0.010±0.003)	Gap=.254±.076 (0.010±0.003)

Dielectric Code	"K" Factor	Minimum Capacitance Tolerance	Max. Cap Per Each Cap. Pad pF				
A (NPO)	75	±0.25 pF	1.5	3.0	3.5	4.0	6.0
	1200	±10%	47	68	82	91	130
C	2000	±10%	68	110	130	150	220
	4000	±10%	75	150	200	225	325
B	5000	±10%	130	270	330	390	510
Maxi	20,000	±10%	320	650	750	900	1250

**For Capacitance below 10pF, C & D tolerance apply.

GH Series: Multi-Cap Array Single Layer Capacitors

Maximum Capacitance Per Each Capacitor Pad, pF

millimeters (inches)

for 3 Cap Arrays or 4 Cap Arrays	GH-2	GH-Y	GH-3	GH-4
Length: for 6 Cap Arrays	1.65±.381 (0.065±0.015)	1.65±.381 (0.065±0.015)	1.65±.381 (0.065±0.015)	1.65±.381 (0.065±0.015)
Width	2.16±.381 (0.085±0.015)	2.16±.381 (0.085±0.015)	2.16±.381 (0.085±0.015)	2.16±.381 (0.085±0.015)
Pad Size	3.18±.508 (0.125±0.020)	3.18±.508 (0.125±0.020)	3.18±.508 (0.125±0.020)	3.18±.508 (0.125±0.020)
.508±.127 (0.020±0.005)	.635±.254 (0.025±0.010)	.762±.254 (0.030±0.010)	.892±.254 (0.030±0.010)	1.02±.254 (0.040±0.010)
.508±.381 (0.020x0.015)	.635±.381 (0.025x0.015)	.762±.381 (0.030x0.015)	.892±.381 (0.030x0.015)	1.02±.381 (0.040x0.015)

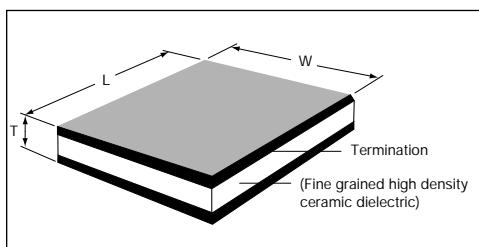
Dielectric Code	"K" Factor	Minimum Capacitance Tolerance	Max. Cap Per Each Cap. Pad pF			
A (NPO)	75	±0.25 pF	0.9	1.1	1.25	1.75
C	4000	±10%	50	60	75	100
B	5000	±10%	60	75	90	120
Maxi	20,000	±10%	200	250	300	400

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #012. Visit our website <http://www.avxcorp.com>



Gigahertz Single Layer Microwave Capacitors

Single Layer Ceramic - GH Series



HOW TO ORDER

GH35 5 A 6R8 C A W

① ②③ ④ ⑤⑥⑦

① Case Size

② Voltage: 5 = 50V, 1 = 100V

③ Dielectric Code: (See Table below)

④ Capacitance Code

⑤ Tolerance:

<10pF

B = ±0.1pF (Special order)

C = ±0.25pF

D = ±0.5pF

>10pF

J = ±5%

K = ±10%

M = ±20%

⑥ Termination:

A = 99.99% pure sputtered gold over Ti/W. ($\approx 1000 \text{ \AA}$ thickness)
N = 99.99% pure sputtered gold over nickel. ($\approx 1000 \text{ \AA}$ thickness)

⑦ Packaging:

6 = Waffle pack

6N = Antistatic waffle pack

Standard Packaging

	WAFFLE
GH10	484
GH15	484
GH20	400/625
GH25	400/625
GH35	400/625
GH50	256
GH70	256
GH90	100

Single Layer Capacitor Selection Chart

millimeters (inches)

			GH10		GH15		GH20		GH25		GH35		GH50		GH70		GH90			
Dielectric Code	"K" Factor	Min. Cap. Tol.	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max		
Temperature Compensation	A	14	±0.1pF*	0.10	0.15	0.10	0.27	0.13	0.47	0.22	0.75	0.47	1.60	0.82	3.60	1.50	3.90	2.40	6.20	
		37	±0.1pF*	0.10	0.18	0.16	0.33	0.33	0.68	0.56	1.20	1.20	2.40	2.00	4.30	3.60	7.50	6.20	13.00	
		75	±0.1pF*	0.15	0.82	0.33	1.50	0.68	2.40	1.20	3.90	2.40	8.20	4.30	18.00	7.50	20.00	13.00	33.00	
	4	205	±0.25pF	0.36	2.20	0.91	3.90	1.80	6.80	3.30	10.00	6.20	22.00	11.00	51.00	20.00	56.00	36.00	82.00	
		7	370	±0.25pF	0.68	3.90	1.60	7.50	3.30	12.00	5.60	18.00	12.00	39.00	20.00	91.00	36.00	100.00	62.00	150.00
		Y	650	±0.25pF	1.20	6.80	2.70	13.00	5.60	22.00	10.00	33.00	20.00	68.00	36.00	160.00	62.00	160.00	110.00	270.00
XTR	C	1200	±5%**	2.20	13.00	5.60	24.00	11.00	39.00	20.00	62.00	39.00	130.00	68.00	300.00	120.00	330.00	220.00	510.00	
		2200	±5%**	3.90	24.00	10.00	47.00	20.00	75.00	36.00	110.00	68.00	240.00	120.00	560.00	220.00	560.00	390.00	910.00	
		4400	±5%**	7.50	47.00	18.00	82.00	39.00	150.00	68.00	220.00	150.00	470.00	240.00	1100.00	430.00	1200.00	750.00	1800.00	
Z5U	E	9000	±20%	16.00	100.00	39.00	180.00	82.00	300.00	150.00	430.00	270.00	910.00	510.00	2200.00	910.00	2400.00	1500.00	3600.00	
Y5V	G	14000	±20%	24.00	150.00	62.00	270.00	130.00	470.00	220.00	680.00	430.00	1500.00	750.00	3300.00	1300.00	3600.00	2400.00	5600.00	

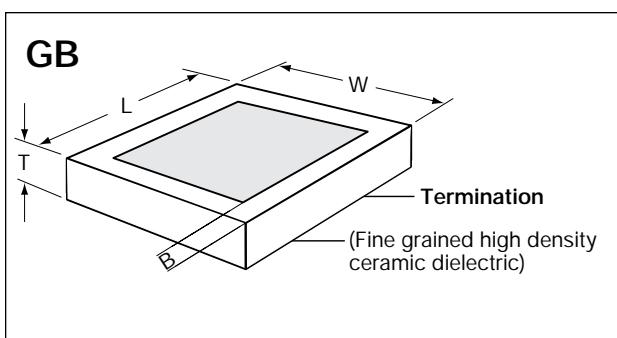
**= Consult Factory

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #013. Visit our website <http://www.avxcorp.com>



Gigahertz Single Layer Microwave Capacitors

Single Layer Ceramic with Borders - GB Series



Standard Packaging

	WAFFLE
GB10	484
GB15	484
GB20	400/625
GB25	400/625
GB35	400/625
GB50	256
GB70	256
GB90	100

HOW TO ORDER

GB35 5 A 6R8 C A W
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Case Size
 - ② Voltage: 5 = 50V, 1 = 100V
 - ③ Dielectric Code: (See Table below)
 - ④ Capacitance Code
 - ⑤ Capacitance Tolerance:
- | | |
|--|--|
| <10pF
B = ±0.1pF (Special order)
C = ±0.25pF
D = ±0.5pF | >10pF
J = ±5%
K = ±10%
M = ±20% |
|--|--|

- ⑥ Termination:
 A = 99.99% pure sputtered gold over Ti/W (\approx 1000 Å thickness)
 N = 99.99% pure sputtered gold over nickel (\approx 1000 Å thickness)
- ⑦ Packaging: 6 = Waffle pack
 6N = Antistatic waffle pack

GB Series: Single Layer Capacitor with Borders

millimeters (inches)

			GB10		GB15		GB20		GB25		GB35		GB50		GB70		GB90		
Dielectric Code	"K" Factor	Min. Cap. Tol.	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	Cap Value pF min	Cap Value pF max	
XTR	A	75	±0.25pF	0.10	0.50	0.20	1.10	0.50	2.00	1.00	3.10	2.00	7.00	3.75	15.00	7.00	18.50	12.00	31.00
XTR	C	4400	±10%**	5.50	35.00	11.50	52.00	33.00	130.00	52.00	175.00	125.00	400.00	215.00	1000.00	400.00	1100.00	700.00	1700.00
XTR	B	5000	10%	6.20	39.00	13.00	56.00	36.00	145.00	56.00	200.00	140.00	450.00	240.00	1100.00	450.00	1200.00	775.00	1900.00

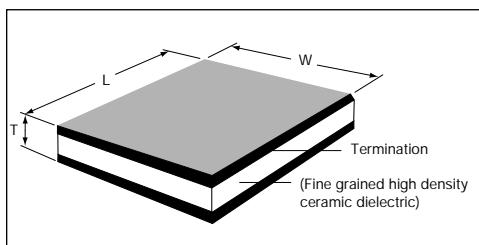
**For Capacitance below 10pF, C & D tolerance apply.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #014. Visit our website <http://www.avxcorp.com>

Microwave Single Layer Capacitors



Maxi SLC's-High Capacitance Single Layer Capacitors



Standard Packaging

	WAFFLE
GH01	484
GH02	400/625
GH03	400/625
GH04	256
GH05	256
GH06	100

HOW TO ORDER

GH 01 5 8 101 K A 6
 ① ② ③④ ⑤ ⑥⑦⑧

- ① **Gigahertz**
- ② **Case Size**
- ③ **Working Voltage:** 5 = 50 WVDC
- ④ **Dielectric Code:** 8 = Maxi-SLC
- ⑤ **Capacitance Code:** EIA capacitance code in pF
 First two digits = significant figures
 Third digit = number of zeros
- ⑥ **Capacitance Tolerance:** K = ±10%, M = ±20%
- ⑦ **Termination:**
 A = 99.99% pure sputtered gold over Ti/W (\approx 2000 Å thickness)
 N = 99.99% pure sputtered gold over Ni (\approx 2000 Å thickness)
- ⑧ **Packaging:** 6 = Waffle pack
 6N = Antistatic waffle pack

Nominal Size/Capacitance (pF)/Tolerance Specifications

millimeters (inches)

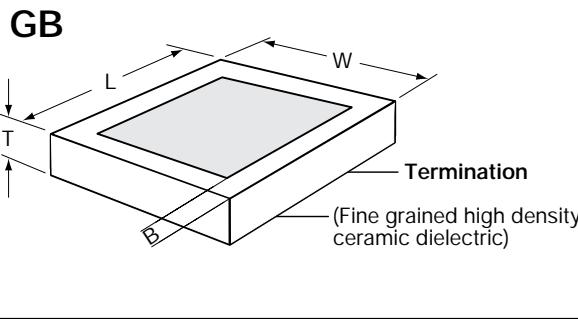
AVX Style	GH01	GH02	GH03	GH04	GH05	GH06
(L) Length	.381 (0.015)	.635 (0.025)	.889 (0.035)	1.27 (0.050)	1.78 (0.070)	2.29 (0.090)
(W) Width	.381 (0.015)	.635 (0.025)	.889 (0.035)	1.27 (0.050)	1.78 (0.070)	2.29 (0.090)
(LW) Tolerance	.127 (±0.005)	.127 (±0.005)	.127 (±0.005)	.254 (±0.010)	.254 (±0.010)	.254 (±0.010)
(T) Thickness	.178 (0.007)	.178 (0.007)	.178 (0.007)	.178 (0.007)	.178 (0.007)	.178 (0.007)
(T) Tolerance	.051 (±0.002)	.051 (±0.002)	.051 (±0.002)	.051 (±0.002)	.051 (±0.002)	.051 (±0.002)
Cap. pF	Cap. Code	Cap. Tol. Avail.				
68	680	K/M				
75	750	K/M				
82	820	K/M				
100	101	K/M				
120	121	K/M				
150	151	K/M				
220	221	K/M				
270	271	K/M				
330	331	K/M				
390	391	K/M				
470	471	K/M				
560	561	K/M				
680	681		K/M			
750	751		K/M			
820	821		K/M			
1000	102		K/M			
1200	122			K/M		
1500	152			K/M		
1800	182			K/M		
2200	222			K/M		
2700	272				K/M	
3300	332				K/M	
3900	392				K/M	
4700	472					K/M
5600	562					K/M
6300	632					K/M

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #015. Visit our website <http://www.avxcorp.com>



Microwave Single Layer Capacitors

Maxi with Borders SLC's-High Capacitance



HOW TO ORDER

GB 01 5 8 101 K A 6
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Gigahertz with Borders
- ② Case Size
- ③ Working Voltage: 5 = 50 WVDC
- ④ Dielectric Code: 8 = Maxi-SLC
- ⑤ Capacitance Code: EIA capacitance code in pF
 First two digits = significant figures
 Third digit = number of zeros
- ⑥ Capacitance Tolerance: K = ±10%, M = ±20%
- ⑦ Termination:
 A = 99.99% pure sputtered gold over Ti/W ($\approx 2000 \text{ \AA}$ thickness)
 N = 99.99% pure sputtered gold over Ni ($\approx 2000 \text{ \AA}$ thickness)
- ⑧ Packaging: 6 = Waffle pack
 6N = Antistatic waffle pack

Standard Packaging

	WAFFLE
GB01	484
GB02	400/625
GB03	400/625
GB04	256
GB05	256
GB06	100

Nominal Size/Capacitance (pF)/Tolerance Specifications

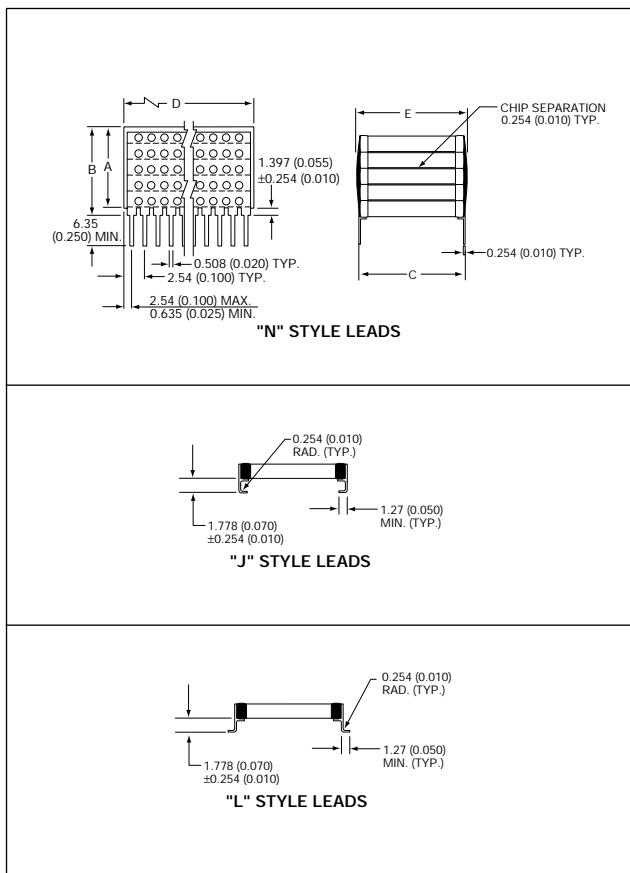
millimeters (inches)

AVX Style	GB01	GB02	GB03	GB04	GB05	GB06
(L) Length	.381 ± .127 (0.015 ± 0.005)	.635 ± .127 (0.025 ± 0.005)	.889 ± .127 (0.035 ± 0.005)	1.27 ± .254 (0.050 ± 0.010)	1.78 ± .254 (0.070 ± 0.010)	2.29 ± .254 (0.090 ± 0.010)
(W) Width	.381 ± .127 (0.015 ± 0.005)	.635 ± .127 (0.025 ± 0.005)	.889 ± .127 (0.035 ± 0.005)	1.27 ± .254 (0.050 ± 0.010)	1.78 ± .254 (0.070 ± 0.010)	2.29 ± .254 (0.090 ± 0.010)
(T) Thickness	.178 ± .051 (0.007 ± 0.002)					
(B) Border	.051 ± .025 (0.002 ± 0.001)					
Cap. pF	Cap. Code	Cap. Tol. Avail.				
43	430	K/M				
51	510	K/M				
56	560	K/M				
68	680	K/M				
75	750	K/M				
82	820	K/M				
100	101	K/M				
220	221		K/M			
270	271		K/M			
330	331		K/M			
390	391		K/M			
470	471		K/M			
560	561			K/M		
680	681			K/M		
750	751			K/M		
820	821			K/M		
1000	102				K/M	
1200	122				K/M	
1500	152				K/M	
1800	182				K/M	
2200	222					K/M
2700	272					K/M
3300	332					K/M
3900	392					K/M
4700	472					K/M
5600	562					K/M

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #016. Visit our website <http://www.avxcorp.com>

SMPS Capacitors

Surface Mount and Through-Hole Series (SM0, SM5)



HOW TO ORDER

SM0 1 7 C 106 M A N 650

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① AVX Style:

Size: SM0 = Uncoated
SM5 = Epoxy coated (add .005" to max. and NOM dimensions A, B, D & E)

② Size: (See dimensions chart)

③ **Voltage:** 50V = 5, 100V = 1, 200V = 2, 500V = 7

④ **Temperature Coefficient:**
COG = A, X7R = C, Z5U = E

⑤ **Capacitance Code**

⑥ **Capacitance Tolerance:**

COG: J = $\pm 5\%$	X7R: K = $\pm 10\%$	Z5U: Z = +80, -20%
K = $\pm 10\%$	M = $\pm 20\%$	P = GMV
M = $\pm 20\%$	Z = +80, -20%	(+100, -0%)

⑦ **Failure Rate:** A = Does not apply

⑧ **Termination:**

N = Straight Lead J = Leads formed in

L = Leads formed out

T = Ni Plate Solder plate (Chips only SM04 and SM05 sizes COG and X7R only)

⑨ **Height:** (.650 is standard maximum thickness for 5 chip stack see dimensions chart reference dimension A)

Dimensions: millimeters (inches)

Style	A (max.)	B (max.)	C $\pm .025$	D $\pm .025$	E (max.)	No. of leads per side
SM-1	16.5 (0.650)	18.0 (0.710)	11.4 (0.450)	52.1 (2.051)	12.7 (0.500)	20
SM-2	16.5 (0.650)	18.0 (0.710)	20.3 (0.800)	38.4 (1.512)	22.1 (0.870)	15
SM-3	16.5 (0.650)	18.0 (0.710)	11.4 (0.450)	26.7 (1.051)	12.7 (0.500)	10
SM-4	16.5 (0.650)	18.0 (0.710)	10.2 (0.400)	10.2 (0.400)	11.2 (0.440)	4
SM-5	16.5 (0.650)	18.0 (0.710)	6.35 (0.250)	6.35 (0.250)	7.62 (0.300)	3
SM-6	16.5 (0.650)	18.0 (0.710)	31.8 (1.250)	52.1 (2.051)	34.3 (1.350)	20

Note: Dimensions A & B are max. dimensions for 5 chip stacks (.120 max. each chip).

For SM-5 add .005" to max. and NOM dimensions A, B, D, & E

Standard Packaging

	Trays
SM-1	6
SM-2	12
SM-3	20
SM-4	25/40
SM-5	25/70
SM-6	6

Maximum Capacitance Available Versus Style

AVX Style	SM-1				SM-2				SM-3				SM-4				SM-5				SM-6			
	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V
Max. Cap. (μF)**	5.00	3.50	1.90	0.90	6.00	5.00	2.80	1.30	2.30	1.90	1.00	0.45	0.80	0.65	0.35	0.12	0.25	0.20	0.10	0.05	16.0	12.0	6.50	2.50
COG (NPO)***	5.00	3.50	1.90	0.90	6.00	5.00	2.80	1.30	2.30	1.90	1.00	0.45	0.80	0.65	0.35	0.12	0.25	0.20	0.10	0.05	16.0	12.0	6.50	2.50
X7R	130.0	60.0	27.0	13.0	200.0	90.0	42.0	20.0	90.0	30.0	14.0	6.50	36.0	9.00	5.50	2.00	12.00	3.40	1.60	0.80	400	200	120	45.0
Z5U	420.0	160.0	60.0	--	590.0	230.0	170.0	--	200.0	75.0	30.0	--	60.0	23.0	15.0	--	23.0	9.00	3.60	--	1300	720	460	--
No. of Leads/side**	20				15				10				4				3				20			
Standard Max. Stack*	5				5				5				5				5				5			

* Values given are for 5 chips stacked. For maximum per chip divide by 5. Maximum thickness per individual chip equals 3.05mm (0.120").

** Based on 2.54mm (0.100") centers.

*** TC FORMULATIONS AVAILABLE UPON REQUEST.

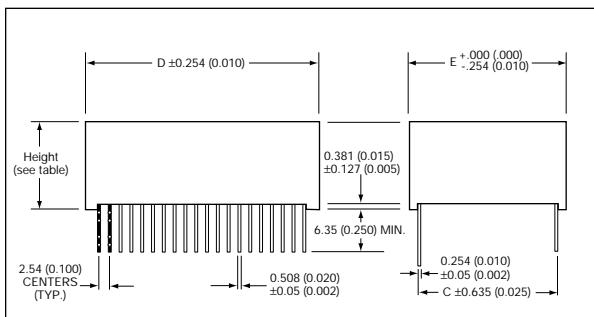
Note: Contact factory for other voltage ratings.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #017. Visit our website <http://www.avxcorp.com>



SMPS Capacitors

Plastic Case (SM9)



Dimensions: millimeters (inches)

Case Code	C	D	E	No. of leads per side*
SM91	11.4 (0.450)	54.7 (2.155)	0.58 (0.023)	20
SM92	20.3(0.800)	41.0 (1.615)	24.1 (0.950)	15
SM93	11.4 (0.450)	29.3 (1.155)	14.7 (0.580)	10
SM94	10.2 (0.400)	12.3 (0.485)	12.3 (0.485)	4
SM95	6.35 (0.250)	9.02 (0.355)	9.02 (0.355)	3
SM96	31.8 (1.250)	54.6 (2.150)	36.3 (1.430)	20

*Leads styles N, J or L available

HOW TO ORDER

SM9 1 7 C 106 M A N 660

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① **AVX Style:** Size SM9 = Plastic Case

② **Size:** (See dimensions chart)

③ **Voltage:** 50V = 5, 100V = 1, 200V = 2, 500V = 7

④ **Temperature Coefficient:**

COG = A, X7R = C, Z5U = E

⑤ **Capacitance Code:** (2 significant digits + no. of zeros)

10 pF = 100 22,000 pF = 223 1 μF = 105

100 pF = 101 220,000 pF = 224 10 μF = 106

1,000 pF = 102 100 μF = 107

⑥ **Capacitance Tolerance:**

COG: J = ±5% X7R: K = ±10% Z5U: Z = +80, -20%

K = ±10% M = ±20%

M = ±20% Z = +80, (+100, -0%) -20%

⑦ **Failure Rate:** A = Does not apply

⑧ **Termination:** N = Straight Lead J = Leads formed in
L = Leads formed out

⑨ **Height:** See table below for max cap. per height

Max Cap (μF) Available Versus Style with Height of 6.86mm (0.270")

AVX STYLE	SM91 ----- AN270				SM92 ----- AN270				SM 93 ----- AN270				SM94 ----- AN270				SM95 ----- AN270				SM96 ----- AN270			
	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V	200V	500V
COG	1.0	.70	.38	.18	1.2	1.0	.56	.26	.46	.38	.20	.09	.16	.13	.07	.02	.05	.04	.02	.01	3.2	2.4	1.3	.50
X7R	27	12	5.4	2.6	40	18	8.4	4.0	18	6.0	2.8	1.3	7.2	1.8	1.1	.40	2.4	.68	.32	.16	80	40	24	9.0
Z5U	84	32	12	--	110	46	34	--	40	15	6.0	--	12	4.6	3.0	--	4.6	1.8	.72	--	260	140	92	--

Max Cap (μF) Available Versus Style with Height of 9.91mm (0.390")

AVX STYLE	SM91 ----- AN390				SM92 ----- AN390				SM93 ----- AN390				SM94 ----- AN390				SM95 ----- AN390				SM96 ----- AN390			
	50V	100V	200V	500V																				
COG	2.0	1.4	.76	.36	2.4	2.0	1.1	.52	.92	.76	.40	.18	.32	.26	.14	.04	.10	.08	.04	.02	6.4	4.8	2.6	1.0
X7R	54	24	10	5.2	80	36	16	8.0	36	12	5.6	2.6	14	3.6	2.2	.80	4.8	1.3	.64	.32	160	80	48	18
Z5U	160	64	24	--	230	92	68	--	80	30	12	--	24	9.2	6.0	--	9.2	3.6	1.4	--	520	280	180	--

Max Cap (μF) Available Versus Style with Height of 13.5mm (0.530")

AVX STYLE	SM91 ----- AN530				SM92 ----- AN530				SM93 ----- AN530				SM94 ----- AN530				SM95 ----- AN530				SM96 ----- AN530			
	50V	100V	200V	500V																				
COG	3.0	2.1	1.1	.54	3.6	3.0	1.6	.78	1.3	1.1	.60	.27	.48	.39	.21	.07	.15	.12	.06	.03	9.6	7.2	3.9	1.5
X7R	81	36	16	7.8	120	54	25	12	54	18	8.4	3.9	21	5.4	3.3	1.2	7.2	2.0	.96	.48	240	120	72	27
Z5U	250	96	36	--	350	130	100	--	120	45	18	--	36	13	9.0	--	13	5.4	2.1	--	780	430	270	--

Max Cap (μF) Available Versus Style with Height of 16.8mm (0.660")

AVX STYLE	SM91 ----- AN660				SM92 ----- AN660				SM93 ----- AN660				SM94 ----- AN660				SM95 ----- AN660				SM96 ----- AN660			
	50V	100V	200V	500V																				
COG	4.0	2.8	1.5	.72	4.8	4.0	2.2	1.0	1.8	1.5	.80	.36	.64	.52	.28	.09	.20	.16	.08	.04	12	9.6	5.2	2.0
X7R	100	48	21	10	160	72	33	16	72	24	11	5.2	28	7.2	4.4	1.6	9.6	2.7	1.2	.64	320	160	96	36
Z5U	330	120	48	--	470	180	130	--	160	60	24	--	48	18	12	--	18	7.2	2.8	--	1000	570	360	--

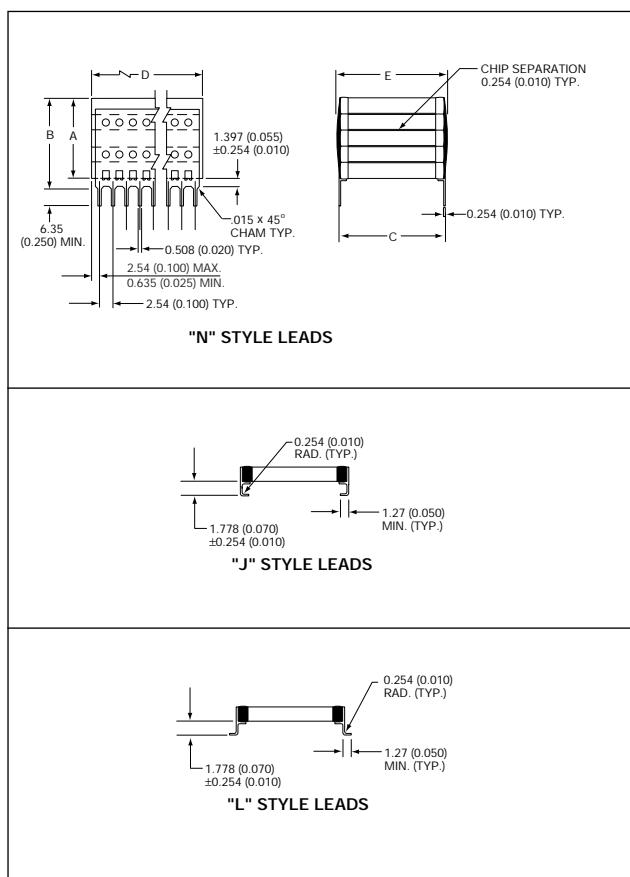
Max Cap (μF) Available Versus Style with Height of 20.3mm (0.800")

AVX STYLE	SM91 ----- AN800				SM92 ----- AN800				SM93 ----- AN800				SM94 ----- AN800				SM95 ----- AN800				SM96 ----- A N800			
	50V	100V	200V	500V	50V	100V	200V	500V																
COG	5.0	3.5	1.9	.90	6.0	5.0	2.8	1.3	2.3	1.9	1.0	.45	.80	.65	.35	.12	.25	.20	.10	.05	16	12	6.5	2.5
X7R	130	60	27	13	200	90	42	20	90	30	14	6.5	36	9.0	5.5	2.0	12	3.4	1.6	.80	400	200	120	45
Z5U	420	160	60	--	590	230	170	--	200	75	30	--	60	23	15	--	23	9.0	3.6	--	1300	720	460	--

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #018. Visit our website <http://www.avxcorp.com>

High Voltage SMPS Capacitors

Surface Mount and Through-Hole Series



HOW TO ORDER

HV 01 A C 104 M A N 650
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① AVX Style

② Size: (See dimensions chart)

③ Voltage: 1K = A, 2K = G, 3K = H, 4K = J, 5K = K

④ Temperature Coefficient:

C0G = A, X7R = C, N1500 = 4

⑤ Capacitance Code

⑥ Capacitance Tolerance:

C0G: J = $\pm 5\%$	X7R: K = $\pm 10\%$	N1500: J = $\pm 5\%$
K = $\pm 10\%$	M = $\pm 20\%$	K = $\pm 10\%$
M = $\pm 20\%$	Z = +80, -20%	M = $\pm 20\%$

⑦ Failure Rate: A = Does not apply

⑧ Termination:

N = Straight Lead

J = Leads formed in

L = Leads formed out

⑨ Height: (.650 is standard maximum thickness for 5 chip stack see dimensions chart reference dimension A)

Dimensions: millimeters (inches)

Style	A (max.)		B (max.)		C $\pm .025$				D $\pm .025$				E (max.)				No. of leads per side			
HV01	16.5 (0.650)		18.0 (0.710)		53.3 (2.100)				10.5 (0.415)				54.9 (2.160)				4			
HV02	16.5 (0.650)		18.0 (0.710)		39.1 (1.540)				20.3 (0.800)				40.6 (1.600)				8			
HV03	16.5 (0.650)		18.0 (0.710)		27.2 (1.070)				10.5 (0.415)				28.7 (1.130)				4			
HV04	16.5 (0.650)		18.0 (0.710)		10.2 (0.400)				10.2 (0.400)				11.2 (0.440)				4			
HV05	16.5 (0.650)		18.0 (0.710)		6.35 (0.250)				6.35 (0.250)				7.62 (0.300)				3			
HV06	16.5 (0.650)		18.0 (0.710)		53.3 (2.100)				29.0 (1.140)				54.9 (2.160)				11			

Note: Dimensions A & B are max. dimensions for 5 chip stacks (.120 max. each chip).

Maximum Capacitance Available Versus Style

AVX Style	HV01					HV02					HV03					HV04					HV05					HV06				
	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV	1KV	2KV	3KV	4KV	5KV
COG (NPO)***	.430	.120	.056	.031	.026	.610	.170	.079	.044	.037	.210	.065	.029	.015	.012	.064	.020	.009	.0045	.0037	.024	.0068	1.20	.330	.140	.092	.078			
N1500	.700	.210	.092	.050	.042	1.00	.290	.120	.072	.060	.340	.100	.045	.025	.020	.100	.033	.014	.0072	.0063	.039	.011	1.90	.530	.230	.150	.130			
X7R	5.50	1.30	.750	.330	.260	7.90	1.80	1.00	.470	.390	2.60	.690	.360	.160	.120	.820	.210	—	—	—	.300	—	15.0	3.50	2.20	1.00	.850			
No. of Leads/side**	4					8					4					4					3					11				
Standard Max. Stack*	5					5					5					5					5					5				

* Values given are for 5 chips stacked. For maximum per chip divide by 5. Maximum thickness per individual chip equals 3.05mm (0.120").

** Based on 2.54mm (0.100") centers.

*** TC FORMULATIONS AVAILABLE UPON REQUEST.

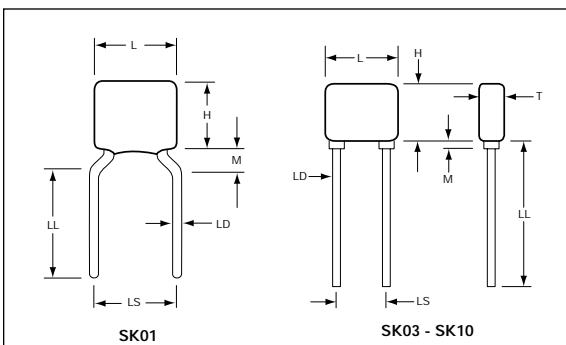
Note: Contact factory for other voltage ratings.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #019. Visit our website <http://www.avxcorp.com>



SK Series/SMPS Capacitors

Product Offering – C0G, X7R and Z5U



Dimensions:

millimeters (Inches)

Style	L (max.)	H (max.)	T (max.)	LS (nom.)	LD (nom.)
SK01	5.08 (0.200)	4.57 (0.180)	3.56 (0.140)	5.08 (0.200)	.508 (0.020)
SK03	7.62 (0.300)	7.62 (0.300)	4.06 (0.160)	5.08 (0.200)	.508 (0.020)
SK04	10.2 (0.400)	10.2 (0.400)	4.06 (0.160)	5.08 (0.200)	.508 (0.020)
SK05	12.7 (0.500)	12.1 (0.475)	4.06 (0.160)	10.2 (0.400)	.635 (0.025)
SK06	22.9 (0.870)	15.0 (0.590)	4.06 (0.160)	20.1 (0.790)	.813 (0.032)
SK07	27.9 (1.100)	15.0 (0.590)	4.06 (0.160)	24.9 (0.980)	.813 (0.032)
SK08	27.9 (1.100)	15.0 (0.590)	7.62 (0.300)	24.9 (0.980)	.813 (0.032)
SK09	17.0 (0.670)	13.7 (0.540)	5.08 (0.200)	13.0 (0.515)	.635 (0.025)
SK10	23.6 (0.930)	18.3 (0.720)	7.11 (0.280)	20.3 (0.800)	.813 (0.032)

L = Length T = Thickness

H = Height M = Meniscus (0.060 max.)

LS = Lead Spacing (Nominal ± 0.031)

LL = Lead Length (2" max./1" min.)

LD = Lead Diameter (Nominal ± 0.002)

HOW TO ORDER

SK 01 3 E 125 Z AA
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Style

② Size: See chart below

③ Voltage: 25V = 3, 50V = 5, 100V = 1,
 200V = 2, 500V = 7

④ Temperature Coefficient:
 Z5U = E, X7R = C, C0G = A

⑤ Capacitance Code

⑥ Capacitance Tolerance:

Z5U: Z = +80, -20%, P = GMV
 X7R: K = $\pm 10\%$, M = $\pm 20\%$, Z = +80, -20%
 C0G: J = $\pm 5\%$, K = $\pm 10\%$, M = $\pm 20\%$

⑦ Failure Rate: A = Does not apply

⑧ Leads: A = Does not apply

Standard Packaging

	BULK	REEL (13")
SK01	300	2000
SK03	200	1000
SK04	200	1000
SK05	200	750
SK06	16	N/A
SK07	10	N/A
SK08	10	N/A
SK09	50	N/A
SK10	10	N/A

Maximum Capacitance Values (C0G), μFd

Style	25 WVDC	50 WVDC	100 WVDC	200 WVDC	500 WVDC
SK01	0.015	0.012	0.010	0.0056	0.0018
SK03/SK53	0.056	0.047	0.039	0.022	0.0068
SK04/SK54	0.12	0.10	0.082	0.047	0.015
SK05/SK55	0.18	0.15	0.12	0.068	0.022
SK06	0.56	0.47	0.39	0.22	0.068
SK07	0.68	0.56	0.47	0.27	0.082
SK08	1.20	1.10	0.82	0.47	0.15
SK09	0.27	0.22	0.18	0.10	0.039
SK10	0.68	0.56	0.47	0.27	0.082

Maximum Capacitance Values (X7R), μFd

Style	25 WVDC	50 WVDC	100 WVDC	200 WVDC	500 WVDC
SK01	0.39	0.33	0.27	0.12	0.033
SK03/SK53	2.2	1.8	1.5	0.56	0.18
SK04/SK54	4.7	3.3	2.7	1.0	0.33
SK05/SK55	6.8	5.6	3.9	1.8	0.56
SK06	15	10	5.6	3.9	1.2
SK07	18	14	8.2	4.7	1.8
SK08	33	22	15	8.2	3.3
SK09	8.2	5.6	3.3	2.2	1.0
SK10	18	12	6.8	4.7	1.5

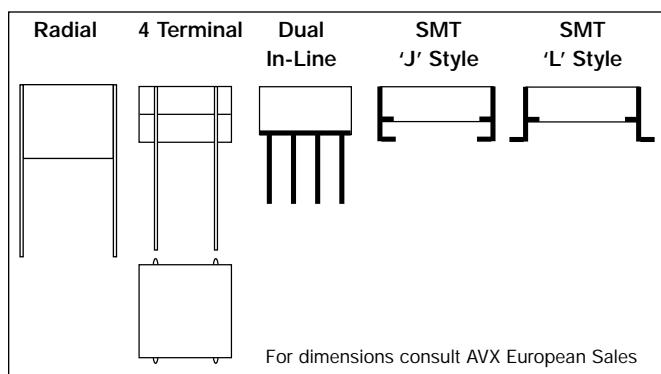
Maximum Capacitance Values (Z5U), μFd

Style	25 WVDC	50 WVDC	100 WVDC	200 WVDC
SK01	1.2	0.82	0.47	0.33
SK03/SK53	5.6	3.30	2.20	1.50
SK04/SK54	10.0	8.20	4.70	3.30
SK05/SK55	18.0	10.00	6.80	4.70
SK06	47.0	39.00	22.00	15.00
SK07	68.0	47.00	27.00	18.00
SK08	120.0	100.00	47.00	33.00
SK09	27.0	18.00	10.00	6.80
SK10	56.0	39.00	22.00	18.00

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #020. Visit our website <http://www.avxcorp.com>

SMPS Capacitors (European Versions)

Surface Mount and Through-Hole



HOW TO ORDER

CH 52 5 C 106 M A 8 O A 0

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

① **Avx Series:** CH

② **Avx Size**

③ **Voltage:** 5=50VDC, 1=100VDC,
2=200VDC, 7=500VDC

④ **Dielectric:** A=C0G
C=X7R

⑤ **Capacitance Code:**

Capacitance in pF 1st two significant
digits + no. of zeros. R denotes decimal point
e.g., 102=1000pF

⑥ **Capacitance Tolerance:**

J=±5% M=±20%
K=±10%

⑦ **Specification:**

A=Failure rate does not apply

⑧ **Finish:** 3=Uncoated 4=Varnish
8=Varnish & end fill (Multi-Chip Array)

⑨ **Lead Diameter:** 0=Dual in-line

⑩ **Lead Space:** S=CV radial, A=Dual in-line,

⑪ **Lead Style:**

0=Straight dual	5=Low profile 'L'
2=2 lead radial	Single in-line
3=Low profile 'J'	7='L' dual in-line
Single Chip	8='J' dual in-line
4=4 terminal	

Capacitance Ranges

Series	C0G (µF)				X7R (µF)			
	50VDC	100VDC	200VDC	500VDC	50VDC	100VDC	200VDC	500VDC
CH 41-44	0.068 ~ 0.39	0.047 ~ 0.33	0.033 ~ 0.27	0.01 ~ 0.068	1.8 ~ 12	1.2 ~ 10	0.33 ~ 2.2	0.12 ~ 1.0
CH 51-54	0.12 ~ 0.68	0.1 ~ 0.47	0.068 ~ 0.39	0.022 ~ 0.1	3.9 ~ 22	2.2 ~ 15	0.68 ~ 3.9	0.27 ~ 1.5
CH 61-64	0.22 ~ 1.2	0.15 ~ 1.0	0.12 ~ 0.68	0.033 ~ 0.22	6.8 ~ 39	4.7 ~ 33	1.0 ~ 10	0.47 ~ 3.3
CH 71-74	0.39 ~ 2.2	0.27 ~ 1.8	0.22 ~ 1.2	0.068 ~ 0.39	12 ~ 68	8.2 ~ 47	2.2 ~ 12	0.82 ~ 5.6
CH 76-79	0.39 ~ 2.2	0.27 ~ 1.8	0.22 ~ 1.2	0.068 ~ 0.39	12 ~ 68	8.2 ~ 47	2.2 ~ 12	0.82 ~ 5.6
CH 81-84	0.39 ~ 2.7	0.27 ~ 2.2	0.22 ~ 1.8	0.068 ~ 0.56	15 ~ 82	12 ~ 68	2.2 ~ 15	0.82 ~ 5.6
CH 86-89	0.68 ~ 3.7	0.56 ~ 0.33	0.39 ~ 3.3	0.12 ~ 0.82	22 ~ 120	15 ~ 100	3.9 ~ 27	1.5 ~ 8.2
CH 91-94	1.2 ~ 5.6	1.0 ~ 4.7	0.82 ~ 3.9	0.22 ~ 1.2	39 ~ 180	33 ~ 150	8.2 ~ 39	2.7 ~ 18

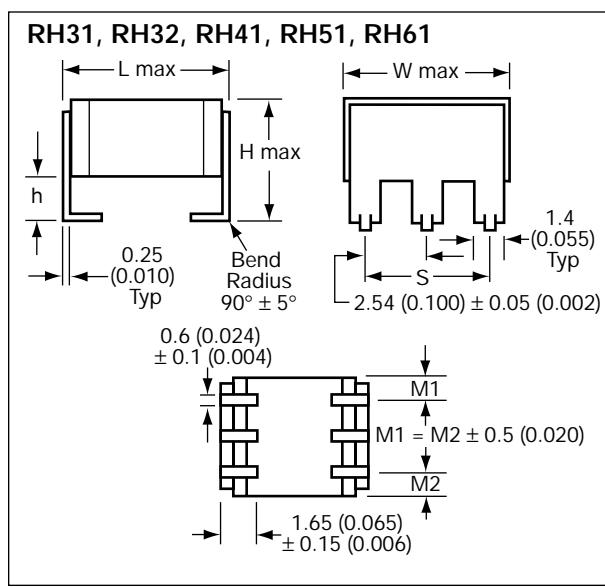
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #021. Visit our website <http://www.avxcorp.com>



SMPS Capacitors (European Versions)



Surface Mount "J" Lead



HOW TO ORDER

RH31 5 C 225 M A 3 0 A 3

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① **AVX Series:** RH31, RH32, RH41, RH51, RH61

② **Voltage:** 5=50VDC, 1=100VDC, 2=200VDC,
7=500VDC

③ **Dielectric:** C=X7R

④ **Capacitance Code:**

Capacitance in pF 1st 2 significant digits + no. of zeros. R denotes decimal point e.g., 102=1000pF

⑤ **Capacitance Tolerance:**

K=±10%, M=±20%

⑥ **Specification:** A=Failure rate does not apply

⑦ **Finish:** 3=Waffle Pack
A=Tape & Reel

SMT Only:

⑧ **Lead Diameter:** 0=Dual in-line

⑨ **Lead Space:** A=Dual in-line

⑩ **Lead Style:** See below

millimeters (inches)

Style	L max.	W max.	H max.	S ± 0.1	h	Lead Style
RH31	7.62 (0.300)	7.00 (0.276)	5.08 (0.200)	5.08 (0.200)	1.78 ±0.25 (0.070±0.010)	3
RH32	7.62 (0.300)	7.00 (0.276)	8.13 (0.320)	5.08 (0.200)	1.78 ±0.25 (0.070±0.010)	3
RH41	9.20 (0.362)	8.70 (0.343)	4.90 (0.193)	5.08 (0.200)	1.10 max. (0.043)	9
RH51	10.7 (0.421)	10.7 (0.421)	4.90 (0.193)	7.62 (0.300)	1.10 max. (0.043)	9
RH61	14.9 (0.587)	13.6 (0.535)	4.90 (0.193)	10.16 (0.400)	1.60 max. (0.063)	9

RH31, RH32, RH41, RH51, RH61 Capacitance Ranges

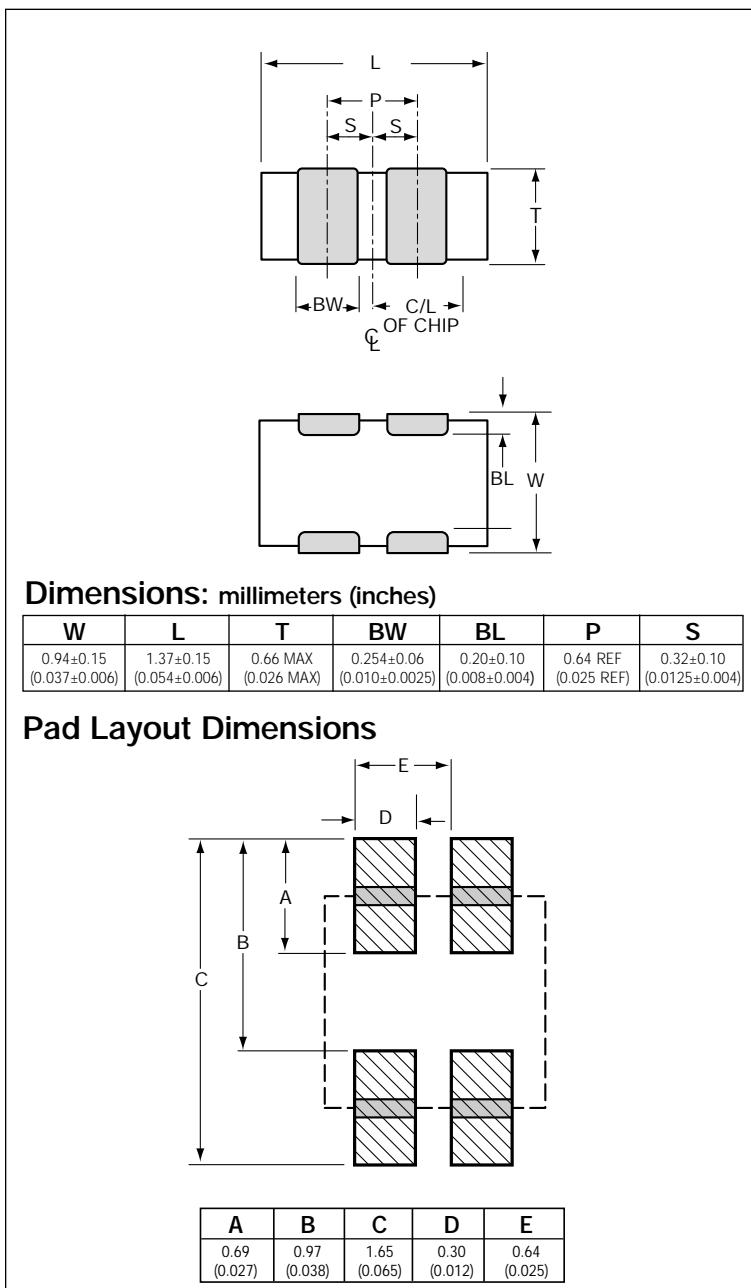
Voltage (VDC)	Capacitance (μF)				
	RH31	RH32	RH41	RH51	RH61
50	2.2	4.4	2.7	3.3	6.8 - 10.0
100	1.0 ~ 1.5	2.0, 3.0	1.8	2.2 - 3.9	6.8 - 10.0
200	0.33 ~ 0.39	0.66 ~ 0.78	0.47	0.56	
500	0.1	0.2	0.27	0.33 - .47	

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #022. Visit our website <http://www.avxcorp.com>



Integrated Passive Components (IPC)

0405 2 Cap Array



HOW TO ORDER

W 1 A 2 3 C 682 M A T 2 A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① AVX Style

② AVX Size: 1=0405

③ Array

④ Number of Caps

⑤ Voltage: Y=16V, 3=25V, 5=50V

⑥ Dielectric: A=NP0/C0G, C=X7R,G=Y5V

⑦ Capacitance Code

⑧ Capacitance Tolerance:

J=±5%, K=±10%,

M=±20%, Z=+80 -20%

⑨ Failure Rate: A=Not Applicable

⑩ Terminations:

T=Plated Ni and Solder

⑪ Packaging Code (Reel Size):

1=7" Reel Embossed Tape

2=7" Reel Paper Tape

3=13" Reel Embossed Tape

4=13" Reel Paper Tape

⑫ Quantity (Pcs./Reel):

F=1,000

A=4,000 or 10,000

Available Cap Values

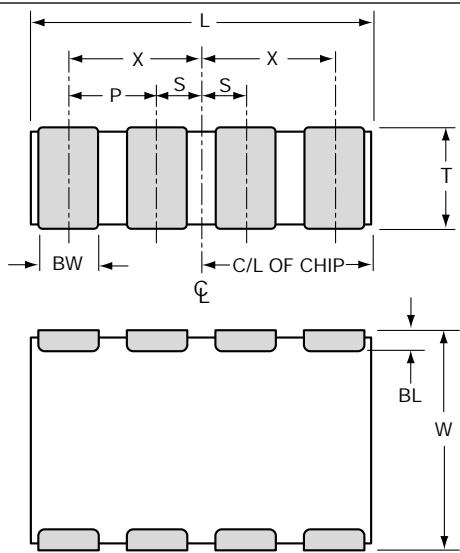
0405 2 element	Voltage		NPO/C0G		X7R	Y5V
	16V		10pF ~ 100pF		220pF ~ .022μF	.01μF ~ .12μF
	25V		10pF ~ 100pF		220pF ~ .0068μF	.01μF ~ .068μF
	50V		10pF ~ 100pF		220pF ~ .0068μF	.01μF ~ .068μF

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #023. Visit our website <http://www.avxcorp.com>



Integrated Passive Components (IPC)

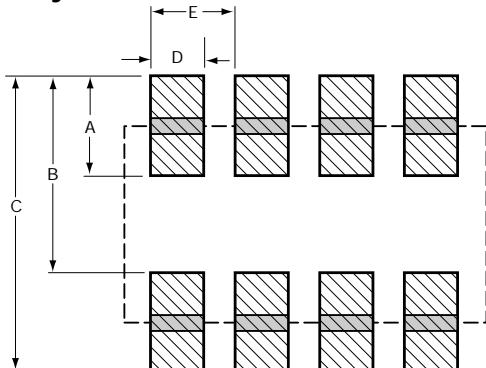
0508 4 Cap Array



Dimensions: millimeters (inches)

L	W	T	BW	BL	P	X	S
2.03±0.2 (.080±.008)	1.27±0.2 (.050±.008)	0.965 (.038 MAX)	0.254±0.1 (.010±.004)	0.18 ^{.025} _{.008} (.007 ^{.010} _{.003})	0.508 REF (.020 REF)	0.76±0.1 (.030±.004)	0.254±0.1 (.010±.004)

Pad Layout Dimensions



A	B	C	D	E
0.64 (.025)	1.27 (.050)	1.91 (.075)	0.28 (.011)	0.51 (.020)

HOW TO ORDER

W 2 A 4 Y C 103 M A T 3 A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① AVX Style

② AVX Size: 2=0508

③ Array

④ Number of Caps

⑤ Voltage: 3=25V, Y=16V, Z=10V, 5=50V

⑥ Dielectric: A=NPO, C=X7R, G=Y5V

⑦ Capacitance Code

⑧ Capacitance Tolerance:

M=±20% K=±10%

⑨ Failure Rate: A=Not Applicable

⑩ Terminations:

T=Plated Ni and Solder

⑪ Packaging Code (Reel Size):

1=7" Reel Embossed Tape

2=7" Reel Paper Tape

3=13" Reel Embossed Tape

4=13" Reel Paper Tape

⑫ Quantity (Pcs./Reel):

F=1,000

A=2,000, 4,000 or 10,000

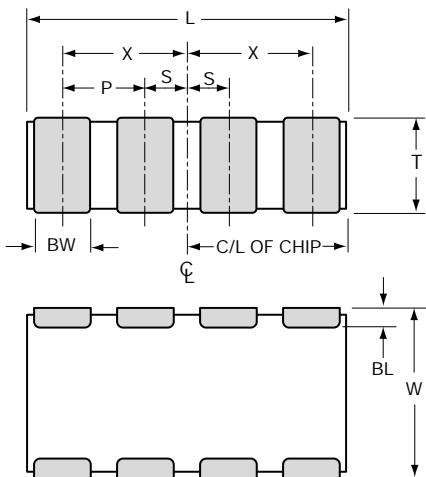
Available Cap Values

	Voltage	NPO/COG	X7R	Y5V
0508 4 element	16V	10pF ~ 270pF	220pF ~ .056µF	.01µF ~.27µF
	25V	10pF ~ 270pF	220pF ~ .018µF	.01µF ~.18µF
	50V	10pF ~ 270pF	220pF ~ .018µF	.01µF ~.10µF
	100V	10pF ~ 270pF	220pF ~ .0047µF	-
0508 2 element	16V	10pF ~ 470pF	220pF ~ .1µF	.01µF ~.47µF
	25V	10pF ~ 470pF	220pF ~ .033µF	.01µF ~.33µF
	50V	10pF ~ 470pF	220pF ~ .033µF	.01µF ~.18µF
	100V	10pF ~ 390pF	220pF ~ .037µF	-

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #024. Visit our website <http://www.avxcorp.com>

Integrated Passive Components (IPC)

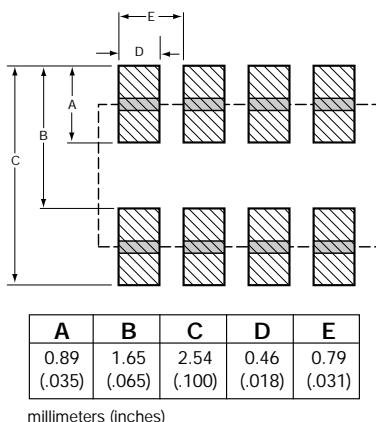
0612 4 Cap Array



Dimensions: millimeters (inches)

L	W	T	BW	BL	P	X	S
3.20±0.2 (.126±.008)	1.60±0.2 (.063±.008)	1.35 MAX (.053 MAX)	0.41±0.1 (.016±.004)	0.18 ^{.025} _{.005} (.007 ^{.016} _{.003})	0.76 REF (.030 REF)	1.14±0.1 (.045±.004)	0.38±0.1 (.015±.004)

Pad Layout Dimensions



HOW TO ORDER

W 3 A 4 3 C 103 K A T 3 A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① AVX Style

② AVX Size: 3=0612

③ Array

④ Number of Caps

⑤ Voltage: Y=16V, 3=25V, 5=50V, 1=100V

⑥ Dielectric: A=NPO, C=X7R, G=Y5V

⑦ Capacitance Code

⑧ Capacitance Tolerance:

J=±5% M=±20%
K=±10% Z=+80-20%

⑨ Failure Rate: A=Not Applicable

⑩ Terminations:

T=Plated Ni and Solder

⑪ Packaging (Reel Size):

1=7" Reel Embossed Tape

2=7" Reel Paper Tape

3=13" Reel Embossed Tape

4=13" Reel Paper Tape

⑫ Quantity (Pcs./Reel):

F=1,000

A=2,000, 4,000 or 10,000

Available Cap Values – 0612 - 4 Elements

	Voltage	NPO/COG	X7R	Y5V
Standard Range	16V	10pF ~ 470pF	220pF ~ .1µF	.01µF ~ .47µF
	25V	10pF ~ 470pF	220pF ~ .033µF	.01µF ~ .33µF
	50V	10pF ~ 470pF	220pF ~ .033µF	.01µF ~ .18µF
	100V	10pF ~ 390pF	220pF ~ .0082µF	—
Extended Range	6.3V	—	.1µF ~ 1.0µF	—
	10V	—	.1µF ~ 1.0µF	—

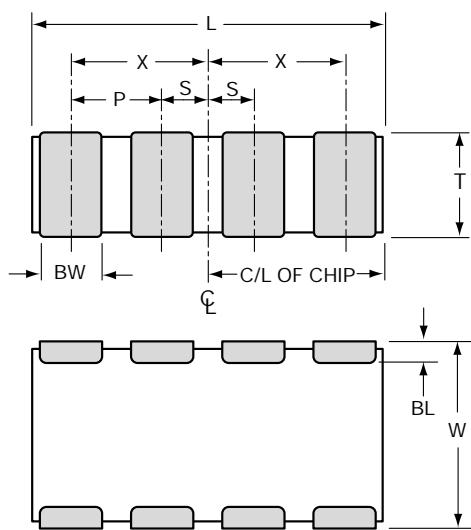
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #025. Visit our website <http://www.avxcorp.com>



Integrated Passive Components (IPC)



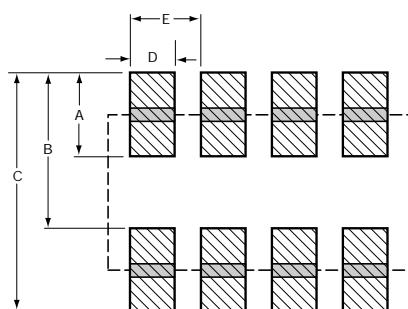
Multi-Value Cap Array



Dimensions: millimeters (inches)

L	W	T	BW	BL	P	X	S
3.20±0.20 (.126±.008)	1.60±0.20 (.063±.008)	1.22 MAX (.048 MAX)	0.41±0.10 (.016±.004)	0.18+0.25-0.08 (.007+.010-.003)	0.76 REF (.030 REF)	1.14±0.10 (.045±.004)	0.38±0.10 (.015±.004)

Pad Layout Dimensions



A	B	C	D	E
0.89 (0.035)	1.65 (0.065)	2.54 (0.100)	0.46 (0.018)	0.79 (0.030)

HOW TO ORDER

W 3 A 4 Y C 102 M 104 M A T 3 A

- ① **AVX Style**
 - ② **AVX Size:** 3=0612
 - ③ **A=Array**
 - ④ **Number of Caps**
 - ⑤ **Voltage:** Y=16V, 3=25V, 5=50V, 1=100V
 - ⑥ **Dielectric:** A=NP0, C=X7R
 - ⑦ **Capacitance Code:** Cap 1
 - ⑧ **Tolerance:** M=±20%, Cap 1
 - ⑨ **Capacitance Code:** Cap 2
 - ⑩ **Tolerance:** M=±20%, Cap 2
 - ⑪ **Failure Rate:** A=Not Applicable
 - ⑫ **Termination Code:** T=Plated Ni and Solder
 - ⑬ **Packaging Code:**
 - Reel Size
 - 1=7" Reel Embossed Tape
 - 3=13" Reel Embossed Tape
 - ⑭ **Special Code**

Performance Characteristics

Capacitance Tolerance	NPO ±10%	X7R ±20%
Dissipation Factor	0.1% max.	5% max.
Insulation Resistance (+25°C, VDC)	100,000 MΩ min. or 1000 MΩ - µF, whichever is less	100,000 MΩ min. or 1000 MΩ - µF, whichever is less

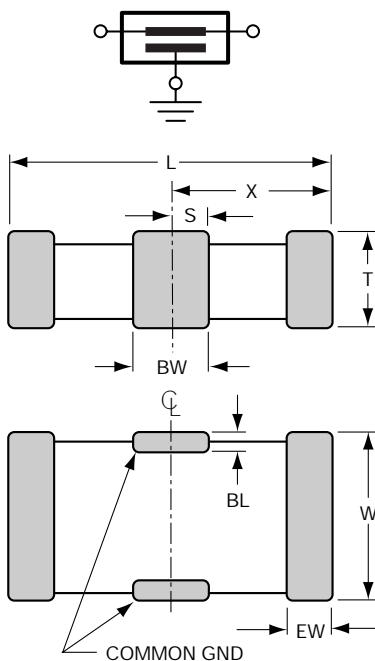
Available Cap Values

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #026. Visit our website <http://www.avxcorp.com>

Integrated Passive Components (IPC)



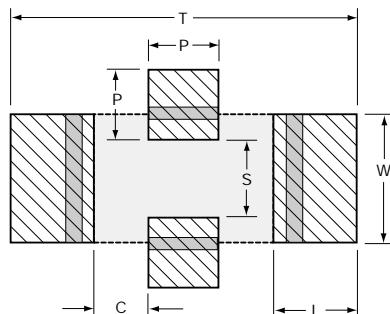
0805 Feedthru Capacitors 1206 Feedthru Capacitors



Dimensions: millimeters (inches)

Size	L	W	T	BW	BL	EW	X	S
0805	2.01±0.20 (.079±.008)	1.25±0.20 (.049±.008)	0.76±0.08 (.030±.003)	0.46±0.10 (.018±.004)	0.18±0.25-0.08 (.007±.010-.003)	0.25±0.13 (.010±.005)	1.02±0.10 (.040±.004)	0.23±0.05 (.009±.002)
1206	3.20±0.20 (.126±.008)	1.60±0.20 (.063±.008)	1.22±0.08 (.048±.003)	0.89±0.10 (.035±.004)	0.18±0.25-0.08 (.007±.010-.003)	0.38±0.18 (.015±.007)	1.60±0.10 (.063±.004)	0.46±0.05 (.018±.002)

Pad Layout Dimensions



Size	T	P	S	W	L	C
0805	3.45 (.136)	0.51 (.020)	0.76 (.030)	1.27 (.050)	1.02 (.040)	0.46 (.018)
1206	4.45 (.175)	0.94 (.037)	1.02 (.040)	1.65 (.065)	1.09 (.043)	0.71 (.028)

HOW TO ORDER

W 3 F 1 5 C 223 8 A T 3 A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① AVX Style

② AVX Size: 2=0805, 3=1206

③ Feedthru

④ Number of Elements

⑤ Voltage: 5=50V, 1=100V

⑥ Dielectric: A=NPO, C=X7R

⑦ Capacitance Code

⑧ Capacitance Tolerance: 8=+50/-20%

⑨ Failure Rate: A=Not Applicable

⑩ Terminations: T=Plated

⑪ Packaging (Reel Size):

1=7" Reel Embossed Tape

3=13" Reel Embossed Tape

⑫ Quantity (Pcs./Reel):

F=1,000

A=2,000, 4,000 or 10,000

Part No.	Size	Voltage	Dielectric	Capacitance
W2F11A 220 8ATxx	0805	100V	NPO	22pF
W2F11A 470 8ATxx	0805	100V	NPO	47pF
W2F11A 101 8ATxx	0805	100V	NPO	100pF
W2F11A 221 8ATxx	0805	100V	NPO	220pF
W2F11A 471 8ATxx	0805	100V	NPO	470pF
W2F15C 102 8ATxx	0805	50V	X7R	1000pF
W2F15C 222 8ATxx	0805	50V	X7R	2200pF
W2F15C 472 8ATxx	0805	50V	X7R	4700pF
W2F15C 103 8ATxx	0805	50V	X7R	10000pF
W2F15C 223 8ATxx	0805	50V	X7R	22000pF
W2F15C 473 8ATxx	0805	50V	X7R	47000pF
W3F11A 220 8ATxx	1206	100V	NPO	22pF
W3F11A 470 8ATxx	1206	100V	NPO	47pF
W3F11A 101 8ATxx	1206	100V	NPO	100pF
W3F11A 221 8ATxx	1206	100V	NPO	220pF
W3F11A 471 8ATxx	1206	100V	NPO	470pF
W3F15C 102 8ATxx	1206	50V	X7R	1000pF
W3F15C 222 8ATxx	1206	50V	X7R	2200pF
W3F15C 472 8ATxx	1206	50V	X7R	4700pF
W3F15C 103 8ATxx	1206	50V	X7R	10000pF
W3F15C 223 8ATxx	1206	50V	X7R	22000pF
W3F15C 473 8ATxx	1206	50V	X7R	47000pF

Typical Performance Characteristics

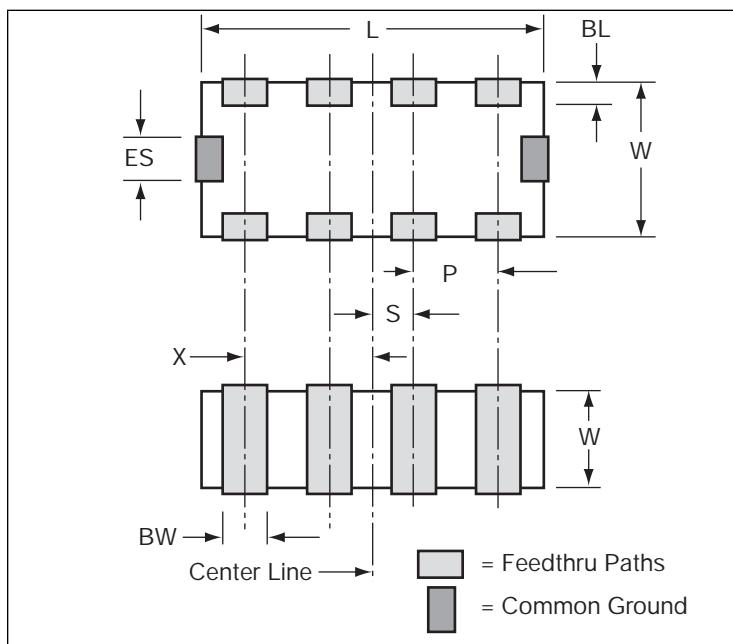
	NPO	X7R
Capacitance Tolerance	+50% -20%	+50% -20%
Voltage Ratings (VDC)	100V	50V
Rated Current	300ma	200ma
Insulation Resistance	1000mΩ	1000mΩ
DC Resistance	≤0.6Ω	≤0.6Ω
Operating Temperature Range	-55 to +125°C	

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #027. Visit our website <http://www.avxcorp.com>



Integrated Passive Components (IPC)

1206 4 Element Feedthru Capacitor Array



Dimensions: millimeters (inches)

L	W	T	BW	BL	P	X	S	ES
3.25±0.15 (.128±.006)	1.60±0.2 (.063±.008)	1.22 MAX (.048 MAX)	0.41±0.1 (.016±.004)	0.18 ^{.025} _{.08} (.007 ^{.030} _{.018})	0.76 REF (.030 REF)	1.14±0.1 (.045±.004)	0.38±0.1 (.015±.004)	0.41±0.1 (.016±.004)

HOW TO ORDER

W 3 F 4 5 C 221 8 A T 3 A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① AVX Style

② AVX Size: 3=1206

③ Feedthru

④ Number of Elements: 4

⑤ Voltage: 5=50V, 1=100V

⑥ Dielectric: A=NP0, C=X7R

⑦ Capacitance Code

⑧ Capacitance Tolerance: 8=+50/-20%

⑨ Failure Rate: A=Not Applicable

⑩ Terminations: T=Plated

⑪ Packaging (Reel Size):

1=7" Reel Embossed Tape

3=13" Reel Embossed Tape

⑫ Quantity (Pcs./Reel):

F=1,000

A=2,000, 4,000 or 10,000

Part No.	Size	Voltage	Dielectric	Capacitance
W3F41A 220 8ATxx	1206	100V	NP0	22pF
W3F41A 470 8ATxx	1206	100V	NP0	47pF
W3F41A 101 8ATxx	1206	100V	NP0	100pF
W3F45C 221 8ATxx	1206	50V	X7R	220pF
W3F45C 471 8ATxx	1206	50V	X7R	470pF

Typical Performance Characteristics

	NP0	X7R
Capacitance Tolerance	+50% -20%	+50% -20%
Voltage Ratings (VDC)	100V	50V
Rated Current	300ma	200ma
Insulation Resistance	1000mΩ	1000mΩ
DC Resistance	≤0.6Ω	≤0.6Ω
Operating Temperature Range	-55 to +125°C	

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #028. Visit our website <http://www.avxcorp.com>

Integrated Passive Components (IPC)



|Z| Chip – 0603 Series Resistor/Capacitor

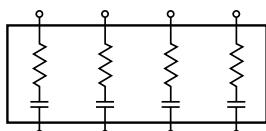
|Z| Array – 0612 4 Element Array



|Z| Chip

Stock Part Values

Part Number	Capacitance	Resistance
Z1D13Y470M101KAT2A	47pF	100 ohms
Z1D13Y680M510KAT2A	68pF	51 ohms
Z1D13Y101M470KAT2A	100pF	47 ohms
Z1D13Y151M330KAT2A	150pF	33 ohms



|Z| Array

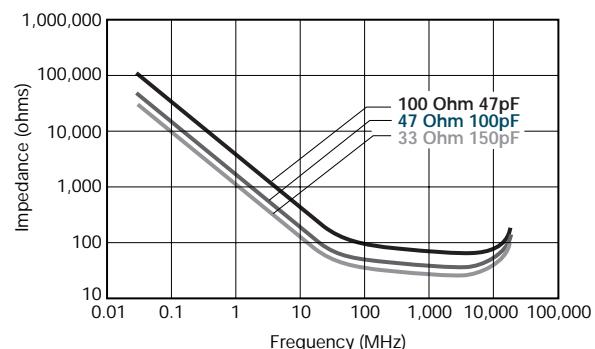
Stock Part Values

Part Number	Capacitance	Resistance
Z3A43Y470M101KAT2A	47pF	100 ohms
Z3A43Y680M510KAT2A	68pF	51 ohms
Z3A43Y101M470KAT2A	100pF	47 ohms
Z3A43Y470M470KAT2A	47pF	47 ohms

HOW TO ORDER

- Z 1 D 1 3 Y 680 M 510 K A T 2 A
- (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14)
- (1) AVX Style
(2) AVX Size: 1=0603, 3=0612
(3) D=Discrete, A=Array
(4) Number of Elements
(5) Voltage: 3=25V
(6) Dielectric: Y=500ppm/C
(7) Capacitance Code
(8) Capacitance Tolerance
(9) Resistance Code
(10) Resistance Tolerance
(11) Failure Rate
(12) Termination Code
(13) Packaging Code
(14) Special Code

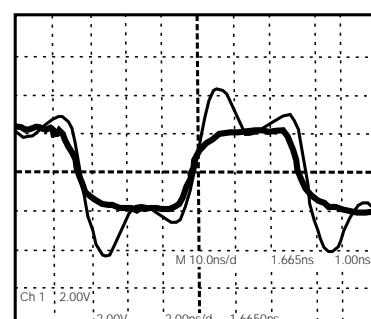
Impedance Characteristics



Performance Characteristics

Capacitance Performance	
Dielectric, TCC	0±500 ppm/°C
Capacitor Tolerance	±20%
WVDC	25V
DF (1kHz)	2.5% Max.
Resistor Performance	
Tolerance	±10%
TCR	±250 ppm/°C

|Z| Chip Termination of an 80 MHz Transmission Line



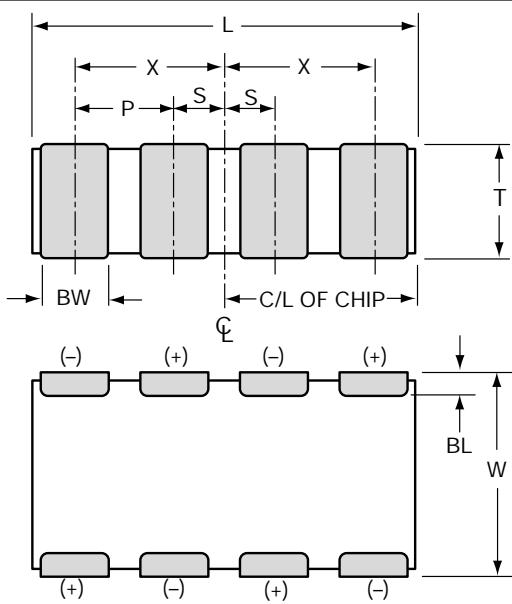
Ringing in an 80 MHz clock pulse (light line)
is eliminated when terminated with a
100pF/47 ohm |Z| Chip (bold line)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #029. Visit our website <http://www.avxcorp.com>



Integrated Passive Components (IPC) Inter-Digitated Capacitor

0508 / 0612 IDC

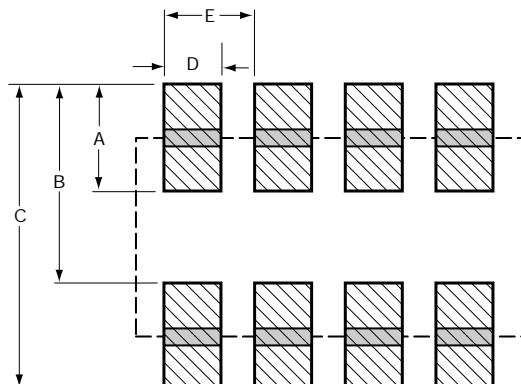


Dimensions: millimeters (inches)

	L (.020±.002)	W (.050±.008)	T (.0965)	BW (.0254±.001)	BL (.018±.002)	P (.0508 REF)	X (.076±.01)	S (.0254±.001)
0508	.020±.002 (.080±.008)	.050±.008 (.050±.008)	.0965 (.038 MAX)	.0254±.001 (.010±.004)	.018±.002 (.007±.010)	.0508 REF (.020 REF)	.076±.01 (.030±.004)	.0254±.001 (.010±.004)

	L (.032±.002)	W (.063±.008)	T (.141 MAX)	BW (.041±.01)	BL (.018±.002)	P (.076 REF)	X (.114±.01)	S (.038±.01)
0612	.032±.002 (.126±.008)	.063±.008 (.063±.008)	.141 MAX (.045 MAX)	.041±.01 (.016±.004)	.018±.002 (.007±.010)	.076 REF (.030 REF)	.114±.01 (.045±.004)	.038±.01 (.015±.004)

Pad Layout Dimensions



	A (.025)	B (.050)	C (.075)	D (.011)	E (.020)
0508	0.64 (.025)	1.27 (.050)	1.91 (.075)	0.28 (.011)	0.51 (.020)
0612	0.89 (.035)	1.65 (.065)	2.54 (.100)	0.46 (.018)	0.79 (.031)

Available Cap Values

Capacitance (μF)	0.047	0.1	0.22	0.47	0.68	1.0	2.2
0508	6.3V						
	10V						
	16V						
0612	6.3V						
	10V						
	16V						

HOW TO ORDER

W 3 L 1 Y C 105 M A T 3 A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① AVX Style

② AVX Size: 2=0508, 3=0612

③ Low Inductance

④ Number of Caps

⑤ Voltage: 6=6.3V, Z=10V, Y=16V

⑥ Dielectric: C=X7R

⑦ Capacitance Code

⑧ Capacitance Tolerance: M=±20%

⑨ Failure Rate: A=Standard

⑩ Terminations: T=Plated Ni and Solder

⑪ Packaging (Reel Size):

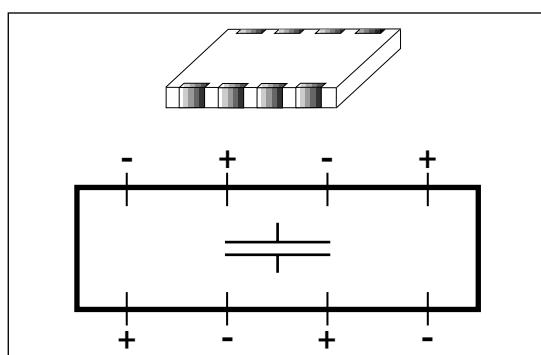
1=7" Reel Embossed Tape

3=13" Reel Embossed Tape

⑫ Quantity (Pcs./Reel): F=1,000

Comparison of ESL for Various Parts

Package Style	Measured Inductance (pH)
0508 IDC	110
0612 IDC	175
Feedthru	375
0612	550
1206	1200



Mechanical Specs

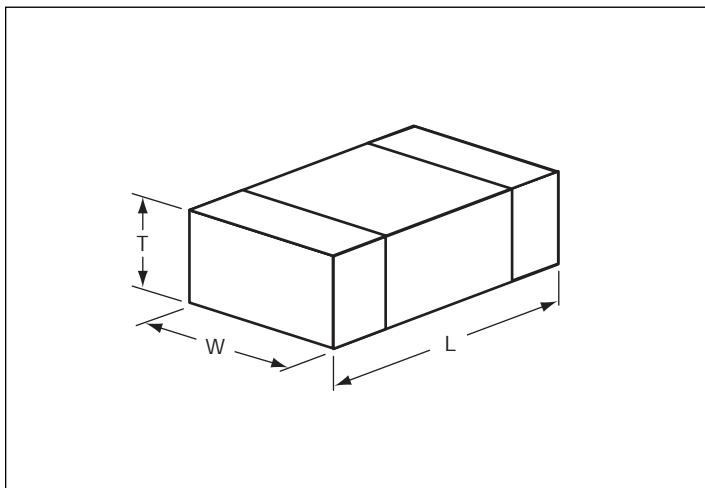
CTE (ppm/°C)	X7R: 12.0
Thermal Conductivity	4-5 W / M°K
Terminations Available	Plated Nickel and Solder
Thickness	0.038" max* (0508) 0.048" max* (0612)

*Thickness will depend on cap value and dielectric.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #030. Visit our website <http://www.avxcorp.com>

Integrated Passive Components (IPC)

Dual & Triple Resonance Capacitor



	L	W	T
0603	1.60±0.15 (0.063±0.006)	0.80±0.15 (0.031±0.006)	0.90 max. (0.035 max.)
0805	2.00±0.20 (0.079±0.008)	1.25±0.20 (0.049±0.008)	1.30 max. (0.051 max.)

HOW TO ORDER

W 1 D 1 5 A 2 4 0 A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① AVX Style: IPC

② AVX Size: 1=0603, 2=0805

③ D=DRC, T=TRC

④ Number of Elements

⑤ Voltage: 5=50V

⑥ Dielectric: A=NP0

⑦ First Resonance Code

⑧ Second Resonance Code

⑨ Third Resonance Code

⑩ Standard Packaging:

7" Paper reel 4,000 pieces per reel

Resonance Code Table

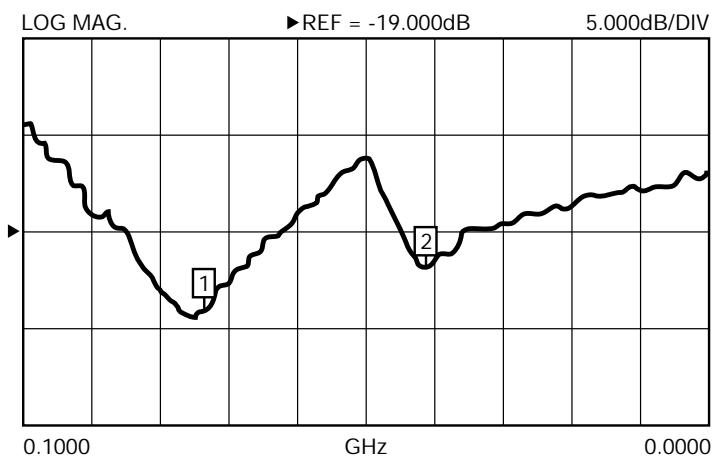
0=None
2=880 MHz
4=1800 MHz
6=1900 MHz
8=2400 MHz

Typical Performance Characteristics

Frequency Tolerance	3%
Voltage Rating	50V

Typical Insertion Loss (S21) For 0603 DRC

S21 FORWARD TRANSMISSION



Marker 1
0.883 GHz
-28.203 dB

Marker 2
1.805 GHz
-22.686 dB

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #031. Visit our website <http://www.avxcorp.com>

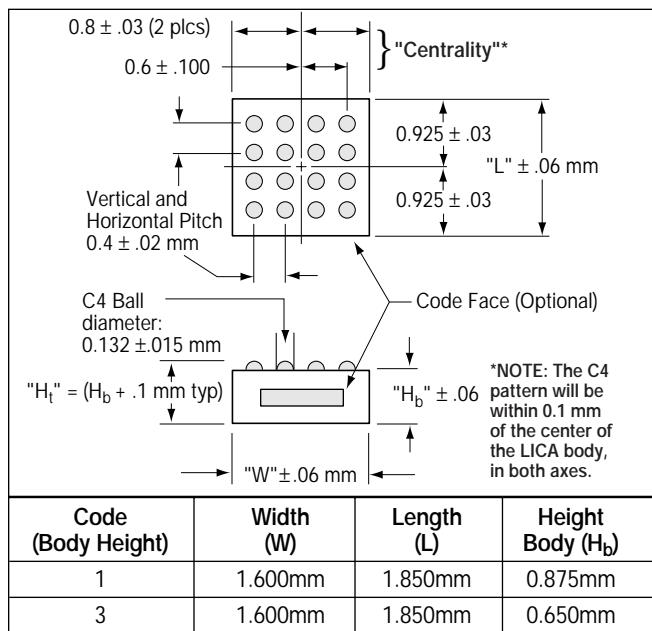


Integrated Passive Components (IPC)

LICA® Low Inductance Decoupling Capacitor Arrays



C4 and Pad Dimensions: millimeters



HOW TO ORDER

LICA 3 T 802 P 1 C C 4
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① **Style and Size**
 - ② **Voltage:** 25V = 3
 - ③ **Dielectric:** T = T60T
 - ④ **Cap/Section**
(EIA Code): 102 = 1000 pF 103 = 10 nF
 104 = 0.1 mF
 - ⑤ **Capacitance Tolerance:** M = ±20%, P = GMV
 - ⑥ **Height Code:** 1 = 0.875mm, 3 = 0.650mm
 - ⑦ **Termination:** C = C4 Solder Balls-97/3
 O = Others
 A = Thin-film
 - ⑧ **Reel Packaging:**
M = 7" Reel C = 4"x4" Waffle Pack
R = 13" Reel U = Termination Side
6 = 2"x2" Waffle Pack In 4"x4" Waffle Pack
 - ⑨ **Number of Caps/Parts:** 1 = one, 2 = two, 4 = four

Table 1

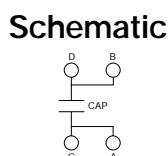
Typical Parameters	T60T	Units	Typical Parameters	T60T	Units
Capacitance, 25°C	Co	Nanofarads	Dielectric Breakdown, Min	500	Volts
Capacitance, 60°C	1.4 x Co	Nanofarads	Rated Voltage	25	Volts
Capacitance, 85°C	Co	Nanofarads	Thermal Coefficient of Expansion	8.5	ppm/°C 25-100°
Dissipation Factor 25°	8	Percent	Inductance: (Design Dependent)	15 to 120	Pico-Henries
DC Resistance	0.2	Ohms	Use Frequency	DC to 1 Gigahertz	
IR, Minimum 25° (QUAD)	4.5	Gigaohms	Ambient Temp Range	-55° to 125°C	

Configuration and Capacitance Options (Co)

Single Capacitor Design

Typical nanofarads (nF) per section

Typical Parameters (mV) per Section			
Single 1 Cap/Unit	25V Rated		
		0.875	0.650
	T60T	130	90

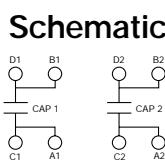


Code

Double Capacitor Design

Typical nanofarads (nF) per section

Double 2 Caps/Unit	25V Rated		
		0.875	0.650
	T60T	60	40

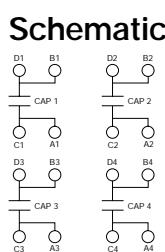


Code

Quadruple Capacitor Design

Typical nanofarads (nF) per section

Quad 4 Caps/Unit	25V Rated		
		0.875	0.650
	T60T	25	18



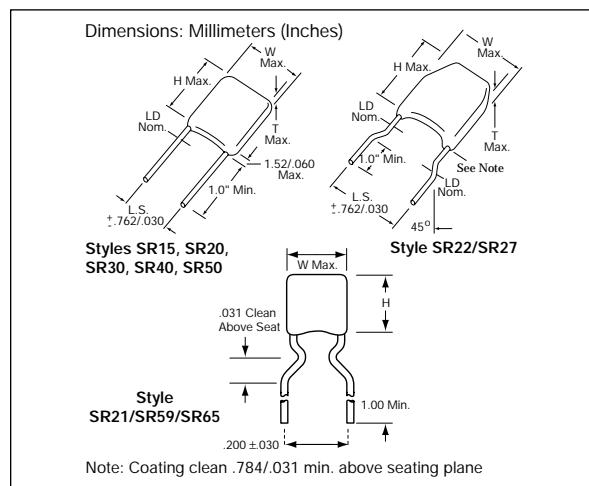
Code

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #032. Visit our website <http://www.avxcorp.com>

Radial Leads/SkyCap®



SR Series



Standard Packaging

	BULK	TAPE & REEL 14"	AMMO
SR15	1,000	3,500	3,500
SR20	1,000	3,000	3,000
SR21	1,000	3,000	3,000
SR22	1,000	N/A	N/A
SR27	1,000	N/A	N/A
SR30	1,000	2,000	2,000
SR40	500	2,000	2,000
SR50	500	N/A	N/A

Dimensions: millimeters (inches)

AVX Style	SR15	SR20	SR21	SR22	SR27	SR30	SR40	SR50
AVX "Insertable"	SR07	SR29	SR59	N/A	N/A	SR65	SR75	N/A
Width (W)	3.81 (0.150)	5.08 (0.200)	5.08 (0.200)	5.08 (0.200)	6.604 (0.260)	7.62 (0.300)	10.16 (0.400)	12.70 (0.500)
Height (H)	3.81 (0.150)	5.08 (0.200)	5.08 (0.200)	5.08 (0.200)	6.35 (0.250)	7.62 (0.300)	10.16 (0.400)	12.70 (0.500)
Thickness (T)	2.54 (0.100)	3.175 (0.125)	3.175 (0.125)	3.175 (0.125)	4.06 (0.160)	3.81 (0.150)	3.81 (0.150)	5.08 (0.200)
Lead Spacing (L.S.)	2.54 (0.100)	2.54 (0.100)	5.08 (0.200)	6.35 (0.250)	7.62 (0.300)	5.08 (0.200)	5.08 (0.200)	10.16 (0.400)
Lead Diameter (L.D.)	.508 (0.020)	.508 (0.020)	.508 (0.020)	.508 (0.020)	.508 (0.020)	.508 (0.020)	.508 (0.020)	.635 (0.025)

Capacitance Range

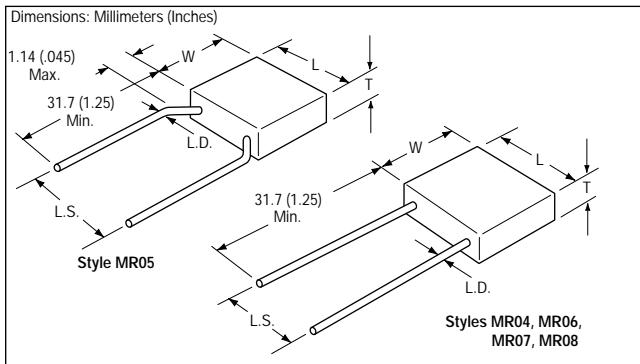
Size	Capacitance Range	NPO			X7R			Z5U	
		50V	100V	200V	50V	100V	200V	50V	100V
SR15	Min. Max.	330pF 1000pF	100pF 680pF	1.0pF 220pF	470pF .022μF	470pF .01μF	470pF 3300pF	.01μF .047μF	.01μF .01μF
SR20	Min. Max.	1500pF 8200pF	1000pF 6800pF	330pF 2200pF	.033μF .22μF	.015μF .1μF	470pF .033μF	0.1μF 1.0μF	.047μF .22μF
SR21	Min. Max.	1000pF 8200pF	330pF 6800pF	1.0pF 2200pF	1000pF 0.22μF	1000pF .1μF	—	.01μF 1.0μF	.01μF .22μF
SR22	Min. Max.	1000pF 8200pF	330pF 6800pF	1.0pF 2200pF	1000pF 0.22μF	1000pF .1μF	—	.01μF 1.0μF	.01μF .22μF
SR27	Min. Max.	1000pF 6800pF	330pF 3900pF	1.0pF 2200pF	1000pF 0.22μF	1000pF .1μF	—	.01μF 1.0μF	.01μF .22μF
SR30	Min. Max.	.01μF .033μF	8200pF .022μF	—	.33μF 1.0μF	.15μF .47μF	470pF	.68μF 3.3μF	.33μF 1.0μF
SR40	Min. Max.	.039μF .068μF	.033μF .047μF	—	2.2μF 2.7μF	1.0μF 1.0μF	470pF .39μF	4.7μF 4.7μF	1.5μF 2.2μF
SR50	Min. Max.	.01μF .1μF	.01μF .068μF	—	1.0μF 4.7μF	.33μF 2.2μF	470pF .39μF	1.0μF 4.7μF	1.0μF 2.2μF

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #033. Visit our website <http://www.avxcorp.com>



Radial Leads/Ceralam®

MR04/05/06/07/08



Marking is as size permits: for code identification see How To Order.

- AVX
- Capacitance and Tolerance
- Voltage Rating
- Temperature Coefficient
- Date Code
- Lot Code

Standard Packaging

	BULK	TAPE & REEL 14"	AMMO
MR04	1,000	2,500	2,500
MR05	1,000	2,500	2,500
MR06	1,000	2,500	2,500
MR07	300	N/A	N/A
MR08	300	N/A	N/A

Dimensions: millimeters (inches)

AVX Style	MR04	MR05	MR06	MR07	MR08
Length $\pm 0.25 (\pm 0.010)$	4.83 (0.190)	4.83 (0.190)	7.36 (0.290)	12.44 (0.490)	12.44 (0.490)
Width $\pm 0.25 (\pm 0.010)$	4.83 (0.190)	4.83 (0.190)	7.36 (0.290)	12.44 (0.490)	12.44 (0.490)
Thickness $\pm 0.25 (\pm 0.010)$	2.28 (0.090)	2.28 (0.090)	2.28 (0.090)	3.55 (0.140)	6.09 (0.240)
Lead Spacing $\pm 0.38 (\pm 0.015)$	2.54 (0.100)	5.08 (0.200)	5.08 (0.200)	10.16 (0.400)	10.16 (0.400)
Lead Diameter $\pm 0.05 (\pm 0.002)$.635 (0.025)	.635 (0.025)	.635 (0.025)	.635 (0.025)	.635 (0.025)

Capacitance Range

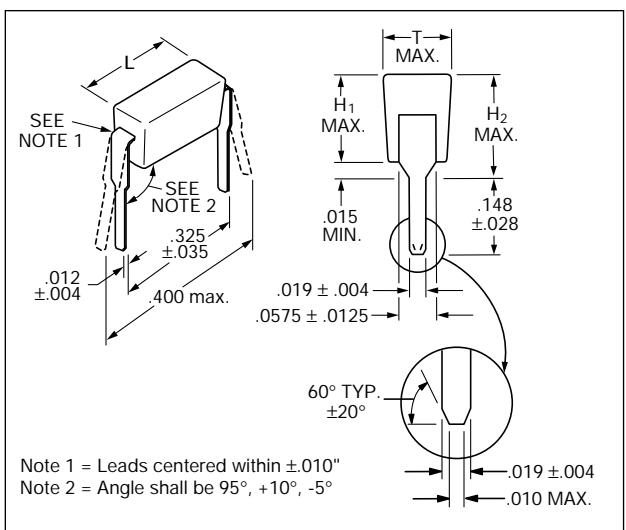
Size	Capacitance Range	NPO			X7R			Z5U	
		50V	100V	200V	50V	100V	200V	50V	100V
MR04	Min. Max.	1.0pF 8200pF	1.0pF 4700pF	1.0pF 1200pF	100pF .15μF	100pF .068μF	100pF .015μF	.01μF .39μF	.01μF .22μF
MR05	Min. Max.	1.0pF 8200pF	1.0pF 4700pF	1.0pF 1200pF	100pF .15μF	100pF .068μF	100pF .015μF	.01μF .39μF	.01μF .22μF
MR06	Min. Max.	.01μF .022μF	5600pF .015μF	1500pF 3900pF	.18μF 1.0μF	.082μF .68μF	.018μF .047μF	.47μF 1.0μF	.27μF .47μF
MR07	Min. Max.	2200pF 0.1μF	2200pF .082μF	2200pF 4700pF	5600pF 3.3μF	5600pF 2.2μF	5600pF .47μF	0.1μF 4.7μF	0.1μF 2.2μF
MR08	Min. Max.	0.12μF 0.15μF	0.10μF 0.12μF	5600pF 6800pF	3.9μF 4.7μF	2.7μF 3.9μF	0.56μF 1.0μF	5.6μF 10.0μF	2.7μF 3.3μF

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #034. Visit our website <http://www.avxcorp.com>



Two Pin DIP/DIPGuard®

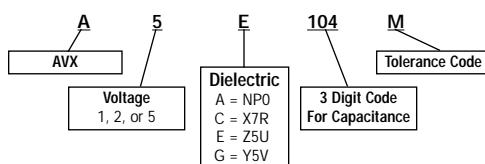
MD01/02/03



Marking

Part Number Example
MD015 E 104MAB

Top of Unit:



HOW TO ORDER

MD01 5 E 104 M A B
 ① ② ③ ④ ⑤ ⑥ ⑦

① AVX Style and Size: MD01, MD02, MD03

② Voltage: 50V = 5, 100V = 1

③ Temp. Coefficient: NPO = A, X7R = C, Z5U = E, Y5V = G

④ Capacitance Code

⑤ Capacitance Tolerance:

NPO: F = $\pm 1\%$, J = $\pm 5\%$, K = $\pm 10\%$

X7R: J = $\pm 5\%$, K = $\pm 10\%$, M = $\pm 20\%$

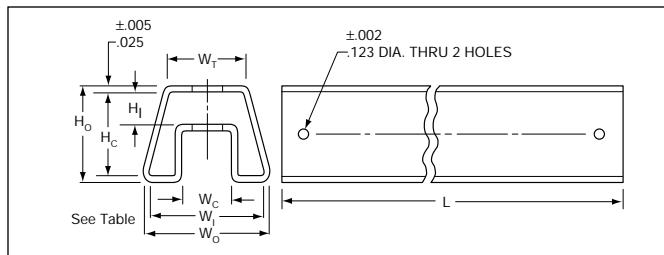
Z5U: M = $\pm 20\%$, Z = $+80\%$, -20%

Y5V: M = $\pm 20\%$, Z = $+80\%$, -20%

⑥ Failure Rate: A = Not Applicable

⑦ Assembly Method: B = Automated Assembly

Standard Packaging: 200 pieces per slide pack.



Slide Package Dimensions

	MD01	MD02	MD03
(H _o) Overall Height	.400 ref.	.430 ref.	.545 ref.
(H _c) Channel Height	.141 ± .006	.171 ± .006	.295 ± .010
(H _i) Inside Height	.350	.380	.495
(W _o) Overall Width	.540 ref.	.540 ref.	.600 ref.
(W _l) Inside Width	.490	.490	.550
(W _c) Channel Width	.210	.210	.170
(W _t) Top Width	.350	.310	.300
(L) Length	20.073 ± .06	20.073 ± .06	20.073 ± .06

Dimensions: millimeters (inches)

AVX Style	Length (L)	Height (H ₁)	Height(H ₂)	Thickness
MD01	6.60 (0.260±0.020)	3.43 (0.135 max.)	4.19 (0.165 max.)	2.54 (0.100 max.)
MD02	6.60 (0.260±0.020)	4.19 (0.165 max.)	5.08 (0.200 max.)	2.54 (0.100 max.)
MD03	6.60 (0.260±0.020)	7.37 (0.290 max.)	8.13 (0.320 max.)	2.54 (0.100 max.)

Capacitance Range

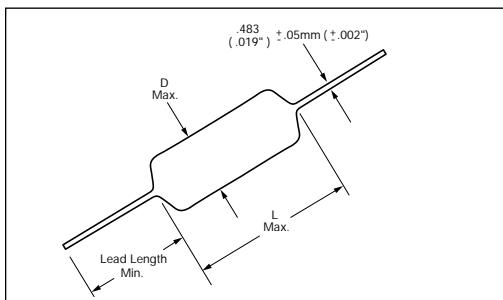
Size	Capacitance Range	NPO		X7R		Z5U	Y5V	
		50V	100V	50V	100V	50V	16V	50V
MD01	Min. Max.	10pF 3300pF	10pF 150pF	220pF 0.1μF	220pF .01μF	.01μF .33μF	1.0μF 3.3μF	—
MD02	Min. Max.	4700pF .01μF	—	.15μF .22μF	—	.47μF .47μF	—	1.0μF 1.0μF
MD03	Min. Max.	—	—	.33μF 1.0μF	—	.68μF 1.0μF	—	—

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #035. Visit our website <http://www.avxcorp.com>

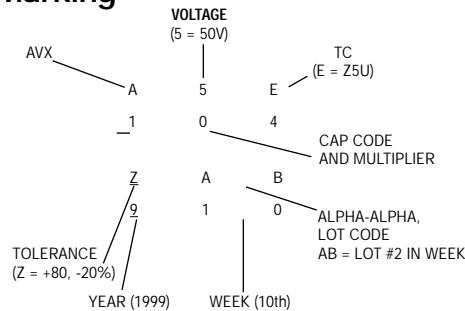


Axial Leads/SpinGuard®[®]

SA Series



Marking



Standard Packaging

	TAPE & REEL 14"	AMMO
SA05	7,500	4,000
SA10	7,500	4,000
SA11	5,000	2,000
SA20	5,000	4,000
SA30	5,000	2,000
SA40	5,000	2,000

Dimensions: millimeters (inches)

AVX Style	SA05	SA10	SA11	SA20	SA30	SA40
Length (L)	3.00 (0.118)	4.32 (0.170)	4.32 (0.170)	6.60 (0.260)	7.37 (0.290)	10.16 (0.400)
Diameter (D)	.230 (0.090)	.254 (0.100)	.305 (0.120)	.254 (0.100)	.381 (0.150)	.381 (0.150)
Lead Diameter	.483 (0.019)	.483 (0.019)	.483 (0.019)	.483 (0.019)	.483 (0.019)	.483 (0.019)
Lead Length	25.4 (1.000)	25.4 (1.000)	25.4 (1.000)	25.4 (1.000)	25.4 (1.000)	25.4 (1.000)

Capacitance Range

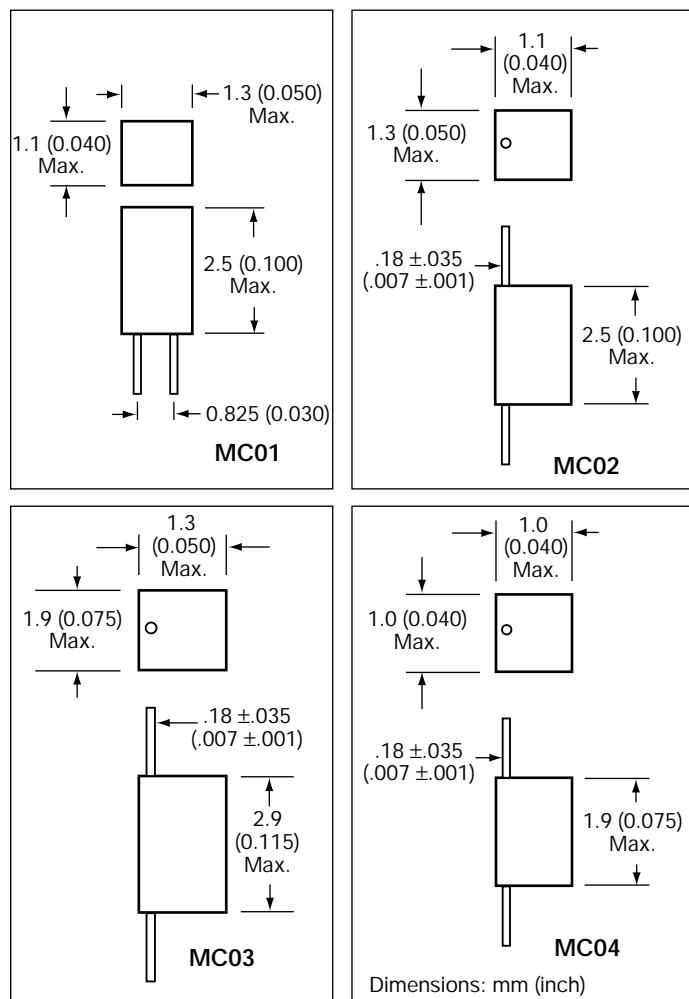
Size	Capacitance Range	NPO			X7R			Z5U	
		50V	100V	200V	50V	100V	200V	50V	100V
SA05	Min. Max.	—	150pF 560pF	1.0pF 120pF	8200pF .018μF	560pF 6800pF	220pF 470pF	0.01μF 0.1μF	— —
SA10	Min. Max.	1000pF 1200pF	150pF 1000pF	1.0pF 120pF	8200pF .015μF	560pF —	220pF .01μF	.01μF .22μF	.01μF .047μF
SA11	Min. Max.	1800pF 3900pF	1000pF 2700pF	—	.047μF .01μF	.018μF .039μF	—	.22μF .47μF	.1μF .1μF
SA20	Min. Max.	1800pF 3300pF	1000pF 1800pF	—	.027μF .01μF	8200μF .033μF	—	.047μF .22μF	.033μF .047μF
SA30	Min. Max.	4700pF 5600pF	1800pF 3900pF	—	.056μF .33μF	.022μF .01μF	—	.47μF 1.0μF	.068μF .33μF
SA40	Min. Max.	8200pF .012μF	4700pF 8200pF	—	.33μF .47μF	.12μF .18μF	—	—	.15μF .47μF

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #036. Visit our website <http://www.avxcorp.com>



Axial & Radial Leads/Mini-Ceramic Capacitor

MC01-4 Series Radial & Axial Leads



HOW TO ORDER

MC02 Y C 222 K A A

① ② ③ ④ ⑤ ⑥ ⑦

① **AVX Style:** MC01, MC02, MC03, MC04

② **Voltages:** 16V=Y, 10V=Z, 6V=6

③ **Temperature Characteristics:**
X7R=C, Y5V=G

④ **Capacitance Code**

⑤ **Capacitance Tolerance:**
X7R: J=±5%, K=±10%, M=±20%
Y5V: Z=+80%, -20%

⑥ **Failure Rate:** Standard

⑦ **Lead Configuration:** A=Axial
R=Radial (MC01 only)

Packaging Standard

100 pieces per bag

Marking

Three digit Capacitance Code

Color coded Capacitance Tolerance:

±5% = Gold Dot
±10% = Silver Dot

Capacitance Specifications

Cap. in pF	Typical AVX Part Nos.
MC01 (16V)	
1000	MC01YC102KAR
1500	MC01YC152KAR
2200	MC01YC222KAR
3300	MC01YC332KAR
4700	MC01YC472KAR
5600	MC01YC562KAR
6800	MC01YC682KAR
8200	MC01YC822KAR
10,000	MC01YC103KAR
15,000	MC01YC153KAR
22,000	MC01YC223KAR
(6V)	
33,000	MC016C333KAR
47,000	MC016C473KAR
68,000	MC016C683KAR
100,000	MC016C104KAR

Cap. in pF	Typical AVX Part Nos.
MC02-X7R (16V)	
1000	MC02YC102KAA
1500	MC02YC152KAA
2200	MC02YC222KAA
3300	MC02YC332KAA
4700	MC02YC472KAA
5600	MC02YC562KAA
6800	MC02YC682KAA
8200	MC02YC822KAA
10,000	MC02YC103KAA
15,000	MC02YC153KAA
22,000	MC02YC223KAA
33,000	MC02YC333KAA
47,000	MC02YC473KAA
68,000	MC02YC683KAA
100,000	MC02YC104KAA
(6V)	
220,000	MC026C224KAA
330,000	MC026C334KAA
470,000	MC026C474KAA
680,000	MC026C684KAA
1,000,000	MC026C105KAA

Cap. in pF	Typical AVX Part Nos.		
µF	MC03		
	X7R (16V)	µF	Y5V (10V)
.33	MC03YC334KAA	2.2	MC03ZG225Z
.47	MC03YC474KAA		
1.0	MC03YC105KAA		

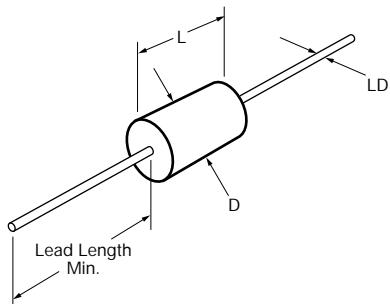
Cap. in pF	Typical AVX Part Nos.
MC04-X7R (16V)	
1000	MC04YC102KAA
1500	MC04YC152KAA
2200	MC04YC222KAA
3300	MC04YC332KAA
4700	MC04YC472KAA
5600	MC04YC562KAA
6800	MC04YC682KAA
8200	MC04YC822KAA
10,000	MC04YC103KAA
15,000	MC04YC153KAA
22,000	MC04YC223KAA
(6V)	
33,000	MC046C333KAA
47,000	MC046C473KAA
68,000	MC046C683KAA
100,000	MC046C104KAA

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #037. Visit our website <http://www.avxcorp.com>



Axial Leads/Ceralam®

MA10/20/30/40/50/60



HOW TO ORDER

MA10 5 E 104 Z A A

(1) (2) (3) (4) (5) (6) (7)

① AVX Styles and Sizes:

MA10, MA20, MA30, MA40, MA50, MA60

② Voltages: 50V = 5, 100V = 1, 200V = 2

③ Dielectric: NP0 = A, X7R = C, Z5U = E

④ Capacitance Code

⑤ Capacitance Tolerance:

NP0: F = ±1.0%, J = ±5%, K = ±10%, M = ±20%,
D = ±.5pF <10pF only

X7R: J = ±5%, K = ±10%, M = ±20%

Z5U: M = ±20%, Z = +80%, -20%

⑥ Failure Rate: Standard

⑦ Leads: Standard

‡ C tolerance available NP0 from 1.0 to 9.1 pF only.
Minimum tolerance for values 10pF - 100pF is D or F,
whichever is greater.

Marking

Line 1, A (for AVX), 5 = 50 Volts (V is optional), E = TC
Line 2, 104 = Capacitance Code
Line 3, Tolerance, 2 digit Lot Code
Date Code: 9 = 1999
10 = Week
Four Digit Date Code Optional

Standard Packaging

	BULK	TAPE & REEL 14"	AMMO
MA10	100	5,000	4,000
MA20	100	5,000	4,000
MA30	100	3,000	2,000
MA40	100	3,000	2,000
MA50	50	950	N/A
MA60	50	650	N/A

Dimensions: millimeters (inches)

AVX Style	MA10	MA20	MA30	MA40	MA50	MA60
Length	4.07±.25 (0.160±0.010)	6.35±.25 (0.250±0.010)	6.09±.25 (0.240±0.010)	9.91±.25 (0.390±0.010)	12.7±.51 (0.500±0.020)	17.53±.51 (0.690±0.020)
Diameter	2.29±.25 (0.090±0.010)	2.29±.25 (0.090±0.010)	3.30±.25 (0.130±0.010)	3.56±.25 (0.140±0.010)	6.35±.38 (0.250±0.015)	8.89±.51 (0.350±0.020)
Lead Diameter	.48±.05 (0.019±0.002)	.48±.05 (0.019±0.002)	.48±.05 (0.019±0.002)	.63±.05 (0.025±0.002)	.63±.05 (0.025±0.002)	.63±.05 (0.025±0.002)
Lead Length	25.4 (1.000)	25.4 (1.000)	25.4 (1.000)	25.4 (1.000)	25.4 (1.000)	25.4 (1.000)

Capacitance Range

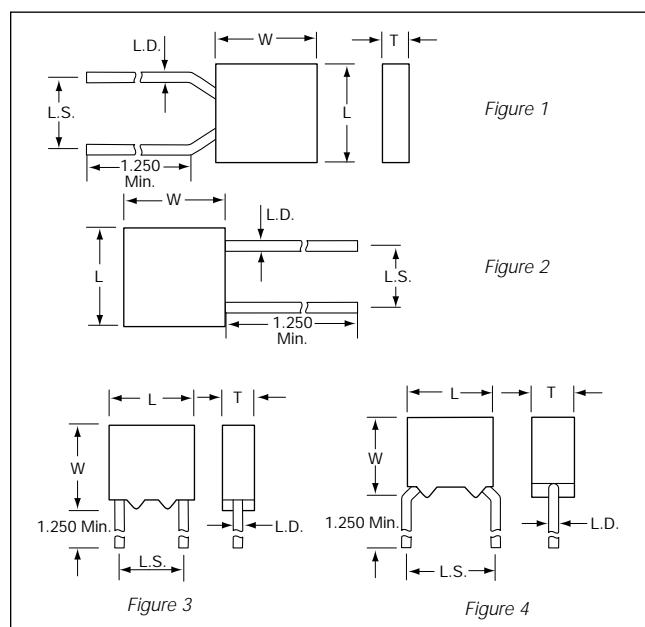
Size	Capacitance Range	NPO			X7R			Z5U		
		50V	100V	200V	50V	100V	200V	50V	100V	200V
MA10	Min. Max.	1.0pF 1000pF	1.0pF 820pF	1.0pF 180pF	220pF .022μF	220pF 6800pF	220pF 1200pF	1000pF .1μF	1000pF .022μF	1000pF 4700pF
MA20	Min. Max.	82pF 1800pF	82pF 1500pF	82pF 330pF	220pF .056μF	220pF .018μF	220pF 2700pF	3300pF .12μF	3300pF .047μF	3300pF .012μF
MA30	Min. Max.	120pF 5600pF	120pF 4700pF	120pF 1200pF	560pF .1μF	560pF .047μF	560pF 6800pF	5600pF .47μF	5600pF .1μF	5600pF .027μF
MA40	Min. Max.	180pF .012μF	180pF 6800pF	180pF 2200pF	1000pF .27μF	1000pF .10μF	1000pF .022μF	.01μF 1.0μF	.01μF .22μF	.01μF .068μF
MA50	Min. Max.	1000pF .056μF	1000pF .033μF	1000pF 8200pF	3300pF 1.0μF	3300pF .33μF	3300pF .068μF	.033μF 2.2μF	.033μF .56μF	.033μF .18μF
MA60	Min. Max.	3300pF 0.15μF	3300pF 0.1μF	3300pF 0.033μF	.01μF 3.3μF	.01μF 1.0μF	.01μF 0.33μF	.1μF 8.2μF	.1μF 2.7μF	.1μF 0.82μF

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #038. Visit our website <http://www.avxcorp.com>



MIL-PRF-39014/Radial Leads

CKR04/05/06/08



Dimensions: millimeters (inches)

Per Mil Spec	Case Size					
	MIL-PRF-39014	Length (L)	Width (W)	Thickness (T)	Lead Spacing (L.S.)	Lead Diameter (L.D.)
CKR04 (Fig. 2)	$4.83 \pm .25$ (0.190 ± 0.010)	$4.83 \pm .25$ (0.190 ± 0.010)	$2.29 \pm .25$ (0.090 ± 0.010)	$2.54 \pm .38$ (0.100 ± 0.015)	.64±.05 (0.025 ± 0.002)	
CKR05 (Fig. 1,4)	$4.83 \pm .25$ (0.190 ± 0.010)	$4.83 \pm .25$ (0.190 ± 0.010)	$2.29 \pm .25$ (0.090 ± 0.010)	$5.08 \pm .38$ (0.200 ± 0.015)	.64±.05 (0.025 ± 0.002)	
CKR06 (Fig. 2,3)	$7.37 \pm .25$ (0.290 ± 0.010)	$7.37 \pm .25$ (0.290 ± 0.010)	$2.29 \pm .25$ (0.090 ± 0.010)	$5.08 \pm .38$ (0.200 ± 0.015)	.64±.05 (0.025 ± 0.002)	
CKR08 (Fig. 2)	$7.37 \pm .25$ (0.290 ± 0.010)	$7.37 \pm .25$ (0.290 ± 0.010)	$3.68 \pm .38$ (0.145 ± 0.015)	$5.08 \pm .38$ (0.200 ± 0.015)	.64±.05 (0.025 ± 0.002)	

HOW TO ORDER

CKR05 BX 104 K S (V)
 ① ② ③ ④ ⑤ ⑥

① Military Type Designation:

Styles CKR04, CKR05, CKR06, CKR08

Slash Number Option: MIL-PRF-39014/01/02/20/23
(Appropriate Dash Number)

② Voltage-Temperature Limits:

First letter identifies temperature range.

B = -55°C to $+125^{\circ}\text{C}$

Second letter identifies voltage-temperature coefficient.

Capacitance Change with Reference to 25°C		
Second Letter	No Voltage	Rated Voltage
X	+15,-15%	+15,-25%

③ Capacitance Code

④ Capacitance Tolerance: K = $\pm 10\%$, M = $\pm 20\%$

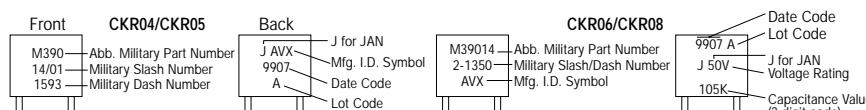
⑤ Military Failure Rate: M = 1% per 1000 hours;
P = 0.1% per 1000 hours; R = 0.01% per 1000 hours;
S = 0.001% per 1000 hours
(CKR08 - "M" Level only)

Note: AVX reserves the right to substitute a lower failure rate part per MIL-PRF-39014. Substitutability for failure rate levels shall be as follows:

Failure Rate Level	Will Replace Failure Rate Level
S (STD) (X-ray)	R,P,M,L
R (STD) (No X-ray)	P,M,L
P	M,L
M	L

⑥ To order standoff option: place "V" at the end of the part number. For example: CKR05BX104KSV.

Marking Radial Lead



Standard Packaging

	BULK	TAPE & REEL 14"	AMMO
CKR04	100	2,500	2,500
CKR05	100	2,500	2,500
CKR06	100	2,500	2,500
CKR08	100	1,500	1,500

Capacitance Range, pF

Mil Type	Temperature Characteristic	Min.	Max.	Tolerance	WVDC
CKR04	BX	10	1,000	10%, 20%	200
	BX	1,200	10,000	10%, 20%	100
	BX	12,000	100,000	10%, 20%	50
CKR05	BX	10	1,000	10%, 20%	200
	BX	1,200	10,000	10%, 20%	100
	BX	12,000	100,000	10%, 20%	50
CKR06	BX	1,200	10,000	10%	200
	BX	12,000	100,000	10%	100
	BX	120,000	1,000,000	10%	50
CKR08	BX	1,200,000	2,000,000	10%	50

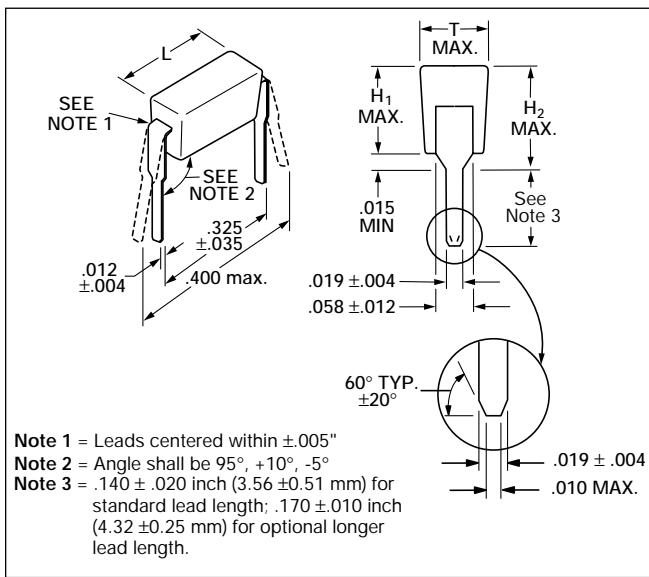
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #039. Visit our website <http://www.avxcorp.com>



MIL-PRF-39014/2 Pin DIP



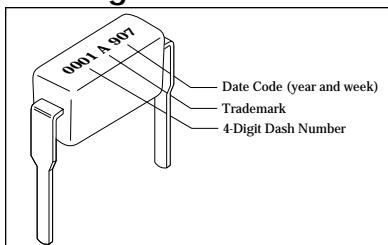
CKR22/23/24



Dimensions: millimeters (inches)

MIL-PRF-39014	Length (L)	Height (H ₁)	Height (H ₂)	Thickness
CKR22	6.60 (0.260±0.020)	3.25 (0.128±0.007)	4.45 max. (0.175)	2.34 (0.092±0.006)
CKR23	6.60 (0.260±0.020)	3.94 (0.155±0.007)	4.95 max. (0.195)	2.34 (0.092±0.006)
CKR24	6.60 (0.260±0.020)	7.19 (0.283±0.007)	8.13 max. (0.320)	2.34 (0.092±0.006)

Marking



Standard Packaging

200 pcs/slide pack.

HOW TO ORDER

CKR22 BX 104 K R
 ① ② ③ ④ ⑤

① **Style:** CK = General purpose, ceramic dielectric, fixed capacitors.

R = Established Reliability parts.

22 = Remaining two numbers identify shape and dimension.

② Voltage-Temperature Limits:

First letter identifies temperature range.

B = -55°C to +125°C

C = -55°C to +150°C

Second letter identifies voltage-temperature coefficient.

Capacitance Change with Reference to 25°C		
Second Letter	No Voltage	Rated Voltage
G	+30, -30ppm	+30, -30ppm
H	+60, -60ppm	+60, -60ppm
R	+15, -15%	+15, -40%
X	+15, -15%	+15, -25%

③ Capacitance Code

④ **Capacitance Tolerance:** D=±.5pF, F=±1%, J=±5%, K=±10%, M=±20%

⑤ Military Failure Rate:

M=1% per 1000 hours R=0.01% per 1000 hours
P=0.1% per 1000 hours S=0.001% per 1000 hours

Note: AVX reserves the right to substitute a lower failure rate part per MIL-PRF-39014. Substitutability for failure rate levels shall be as follows:

Failure Rate Level	Will Replace Failure Rate Level
S (STD) (X-ray)	R, P, M, L
R (STD) (No X-ray)	P, M, L
P	M, L
M	L

Capacitance Range, pF

Mil Type	Temperature Characteristic	Min.	Max.	Tolerance	WVDC
CKR22	CG	1.0	470	D*, F, J, K	200
	CG	560	2,200	F, J, K	100
	CG	2,700	10,000	F, J, K	50
	BX	270	820	K, M	200
	BX	1,000	10,000	K, M	100
	BX	12,000	100,000	K, M	50
CKR23	CG	560	1,200	F, J, K	200
	CG	2,700	3,300	F, J, K	100
	CG	4,700	10,000	F, J, K	50
	BX	1,000	10,000	K, M	200
	BX	12,000	100,000	K, M	100
	BX	120,000	220,000	K, M	50
CKR24	BR	120,000	150,000	K, M	100
	BR	180,000	1,000,000	K, M	50

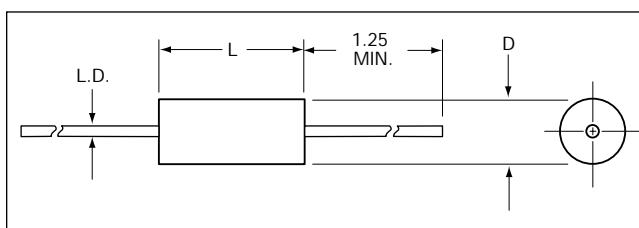
* ±0.5pF closest tolerance available for 1.0pF to 56pF.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #040. Visit our website <http://www.avxcorp.com>



MIL-PRF-39014/Axial Leads

CKR11/12/14/15/16



Dimensions: millimeters (inches)

Per Mil Spec	Case Size		
	Length (L)	Diameter (D)	Lead Diameter (L.D.)
MIL-PRF-39014			
CKR11	4.07±.25 (0.160±0.010)	2.29±.25 (0.090±0.010)	.48±.05 (0.019±0.002)
CKR12	6.35±.25 (0.250±0.010)	2.29±.25 (0.090±0.010)	.48±.25 (0.019±0.010)
CKR14	9.91±.25 (0.390±0.010)	3.56±.25 (0.140±0.010)	.63±.25 (0.025±0.010)
CKR15	12.7±.51 (0.500±0.020)	6.35±.38 (0.250±0.015)	.63±.05 (0.025±0.002)
CKR16	17.53±.51 (0.690±0.020)	8.89±.51 (0.350±0.020)	.63±.05 (0.025±0.002)

HOW TO ORDER

CKR11 BX 103 K S
 ① ② ③ ④ ⑤

① Military Type Designation:

Styles CKR11, CKR12, CKR14, CKR15, CKR16

Slash Number Option

MIL-PRF-39014/05 (Add appropriate dash number from AVX Leaded Catalog)

② Voltage-Temperature Limits:

First letter identifies temperature range.

B = -55°C to +125°C

Second letter identifies voltage-temperature coefficient.

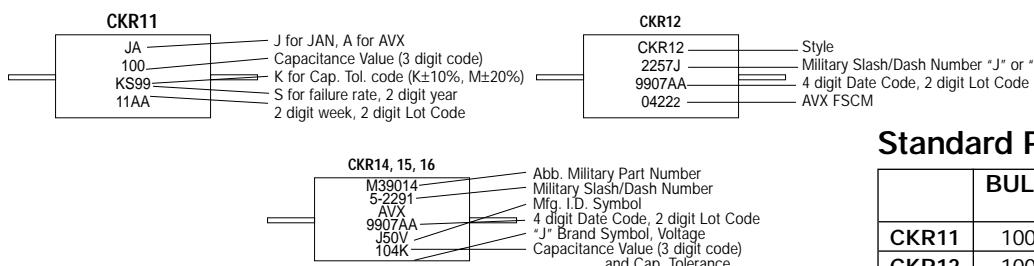
Capacitance Change with Reference to 25°C		
Second Letter	No Voltage	Rated Voltage
R	+15,-15%	+15,-40%
X	+15,-15%	+15,-25%

③ Capacitance Code

④ Capacitance Tolerance: K = ±10%, M = ±20%

⑤ Military Failure Rate: M = 1% per 1000 hours
 P = 0.1% per 1000 hours
 R = 0.01% per 1000 hours
 S = 0.001% per 1000 hours

Marking



Standard Packaging

	BULK	TAPE & REEL 14"	AMMO
CKR11	100	5,000	4,000
CKR12	100	5,000	4,000
CKR14	100	3,000	2,000
CKR15	50	950	N/A
CKR16	50	650	N/A

Capacitance Range, pF

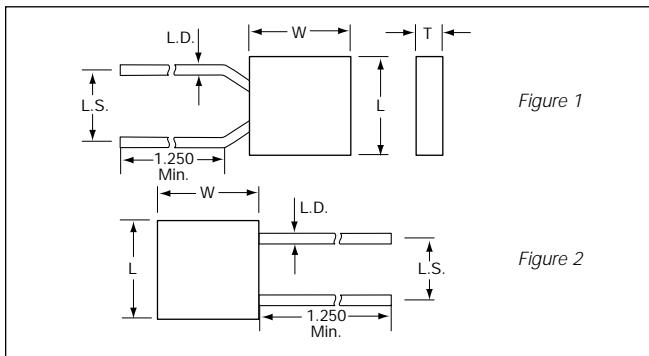
Mil Type	TC	Min.	Max.	Tolerance	WVDC
CKR11	BX	10	4,700	10%, 20%	100
	BX	5,600	10,000	10%, 20%	50
CKR12	BX	5,600	10,000	10%, 20%	100
	BX	12,000	47,000	10%, 20%	50
CKR14	BX	12,000	47,000	10%, 20%	100
	BX	56,000	100,000	10%, 20%	50
	BR	56,000	100,000	10%, 20%	100
	BR	120,000	270,000	10%, 20%	50
CKR15	BX	56,000	100,000	10%, 20%	100
	BR	120,000	330,000	10%, 20%	100
	BR	470,000	1,000,000	10%, 20%	50
CKR16	BR	470,000	1,000,000	10%, 20%	100
	BR	2,200,000	3,300,000	10%, 20%	50

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #041. Visit our website <http://www.avxcorp.com>



MIL-PRF-11015/Radial Leads

CK05/06



Dimensions: millimeters (inches)

Per MIL Spec	Case Size				
	MIL-PRF-11015	Length (L)	Width (W)	Thickness (T)	Lead Spacing (L.S.)
CK05 (Fig. 1)	4.83±.25 (0.190±0.010)	4.83±.25 (0.190±0.010)	2.29±.25 (0.090±0.010)	5.08±.38 (0.200±0.015)	.64±.05 (0.025±0.002)
CK06 (Fig. 2)	7.37±.25 (0.290±0.010)	7.37±.25 (0.290±0.010)	2.29±.25 (0.090±0.010)	5.08±.38 (0.200±0.015)	.64±.05 (0.025±0.002)

HOW TO ORDER

CK05 BX 104 K
 ① ② ③ ④

① Style:

CK = General purpose, ceramic dielectric, fixed capacitors.

05 = Remaining two numbers identify shape and dimension.

② Voltage-Temperature Limits:

First letter identifies temperature range.
B = -55°C to +125°C

Second letter identifies voltage-temperature coefficient.

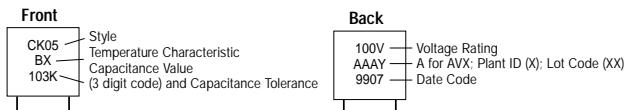
Capacitance Change with Reference to 25°C		
Second Letter	No Voltage	Rated Voltage
X	+15,-15%	+15,-25%

③ Capacitance Code

④ Capacitance Tolerance: K = ±10%, M = ±20%

Marking

CK05/CK06



Standard Packaging

	BULK	TAPE & REEL 14"	AMMO
CK05	1,000	2,500	3,000
CK06	1,000	2,500	3,000

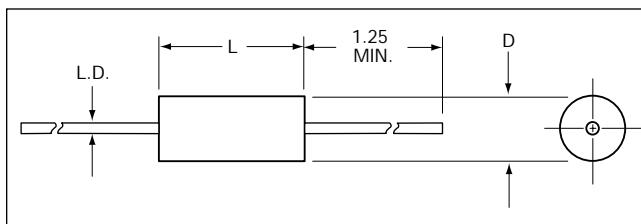
Capacitance Range, pF

Mil Type	TC	Min.	Max.	Tolerance	WVDC
CK05	BX	10	1,000	10%, 20%	200
	BX	1,200	10,000	10%, 20%	100
	BX	12,000	100,000	10%, 20%	50
CK06	BX	1,200	10,000	10%, 20%	200
	BX	12,000	100,000	10%, 20%	100
	BX	120,000	1,000,000	10%, 20%	50

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #042. Visit our website <http://www.avxcorp.com>

MIL-PRF-11015/Axial Leads

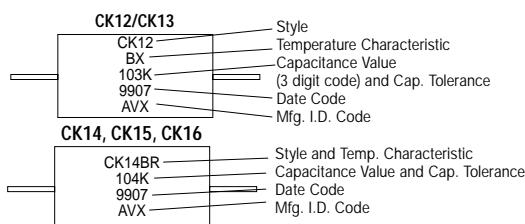
CK12/13/14/15/16



Dimensions: millimeters (inches)

Per Mil Spec	Case Size		
MIL-PRF-11015	Length (L)	Diameter (D)	Lead Diameter (L.D.)
CK12	4.07±.25 (0.160±0.010)	2.29±.25 (0.090±0.010)	.48±.05 (0.019±0.002)
CK13	6.35±.25 (0.250±0.010)	2.29±.25 (0.090±0.010)	.48±.05 (0.019±0.002)
CK14	9.91±.25 (0.390±0.010)	3.56±.25 (0.140±0.010)	.63±.05 (0.025±0.002)
CK15	12.7±.51 (0.500±0.020)	6.35±.38 (0.250±0.015)	.63±.05 (0.025±0.002)
CK16	17.53±.51 (0.690±0.020)	8.89±.51 (0.350±0.020)	.63±.05 (0.025±0.002)

Marking



HOW TO ORDER

CK12 BX 103 K

① ② ③ ④

① Style:

CK = General purpose, ceramic dielectric, fixed capacitors.

12 = Remaining two numbers identify shape and dimension.

② Voltage-Temperature Limits:

First letter identifies temperature range.

B = -55°C to +125°C

Second letter identifies voltage-temperature coefficient.

Capacitance Change with Reference to 25°C		
Second Letter	No Voltage	Rated Voltage
R	+15,-15%	+15,-40%
X	+15,-15%	+15,-25%

③ Capacitance Code

④ Capacitance Tolerance: K = ±10%, M = ±20%

Standard Packaging

	BULK	TAPE & REEL 14"	AMMO
CK12	100	5,000	4,000
CK13	100	5,000	4,000
CK14	100	3,000	2,000
CK15	50	950	N/A
CK16	50	650	N/A

Capacitance Range, pF

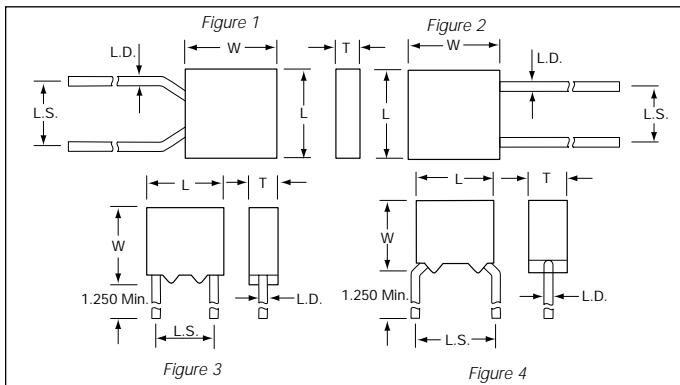
Mil Type	TC	Min.	Max.	Tolerance	WVDC
CK12	BX	10	4,700	±10%, ±20%	100
	BX	5,600	10,000	±10%, ±20%	50
CK13	BX	5,600	10,000	±10%, ±20%	100
	BX	12,000	22,000	±10%, ±20%	50
	BR	27,000	47,000	±10%, ±20%	50
CK14	BX	12,000	47,000	±10%, ±20%	100
	BR	56,000	100,000	±10%, ±20%	100
	BR	120,000	270,000	±10%, ±20%	50
CK15	BX	—	100,000	±10%, ±20%	100
	BR	120,000	330,000	±10%, ±20%	100
	BR	470,000	1,000,000	±10%, ±20%	50
CK16	BR	470,000	1,000,000	±10%, ±20%	100
	BR	2,200,000	3,300,000	±10%, ±20%	50

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #043. Visit our website <http://www.avxcorp.com>



MIL-PRF-20/Radial Leads

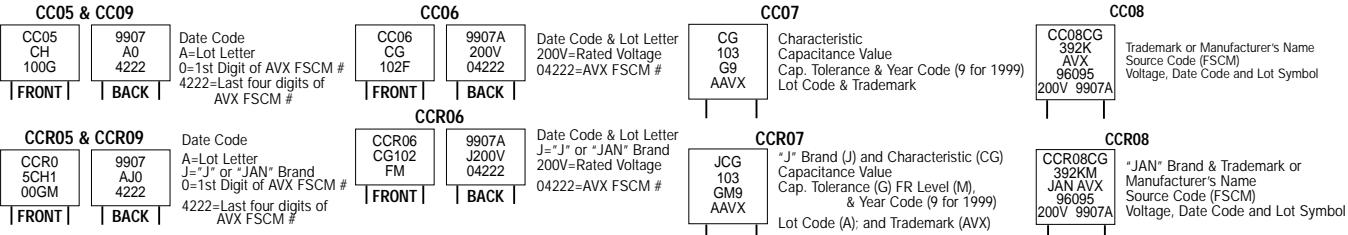
CCR05/06/07/08/09



Dimensions: millimeters (inches)

Per MIL Spec	Case Size				
	Length (L)	Width (W)	Thickness (T)	Lead Spacing (L.S.)	Lead Diameter (L.D.)
MIL-PRF-20					
CCR05/CC05 (Fig. 1,4)	4.83±.25 (0.190±0.010)	4.83±.25 (0.190±0.010)	2.29±.25 (0.090±0.010)	5.08±.38 (0.200±0.015)	.64±.05 (0.025±0.002)
CCR06/CC06 (Fig. 2,3)	7.37±.25 (0.290±0.010)	7.37±.25 (0.290±0.010)	2.29±.25 (0.090±0.010)	5.08±.38 (0.200±0.015)	.64±.05 (0.025±0.002)
CCR07/CC07 (Fig. 2)	12.19±.51 (0.480±0.020)	12.19±.51 (0.480±0.020)	3.56±.25 (0.140±0.010)	10.16±.51 (0.400±0.020)	.64±.05 (0.025±0.002)
CCR08/CC08 (Fig. 2)	12.19±.51 (0.480±0.020)	12.19±.51 (0.480±0.020)	6.1±.25 (0.240±0.010)	10.16±.51 (0.400±0.020)	.64±.05 (0.025±0.002)
CCR09/CC09 (Fig. 2)	4.83±.25 (0.190±0.010)	4.83±.25 (0.190±0.010)	2.29±.25 (0.090±0.010)	2.54±.38 (0.100±0.015)	.64±.05 (0.025±0.002)

Radials



Standard Packaging

	BULK	TAPE & REEL 14"	AMMO
CCR05	100	2,500	2,500
CCR06	100	2,500	2,500

	BULK	TAPE & REEL 14"	AMMO
CCR07	100	N/A	N/A
CCR08	100	N/A	N/A
CCR09	100	N/A	N/A

Capacitance Range, pF

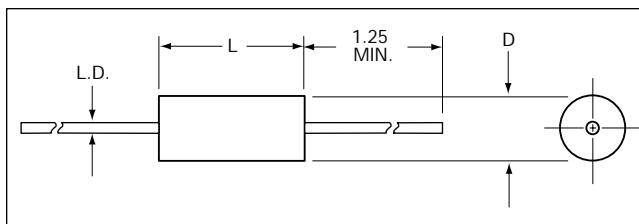
Mil Type	TC	Min.	Max.	Tolerance	WVDC
CCR05	CX	1.0	2.0	±0.25pF	200
	CK	2.2	3.9	±0.25pF, ±0.5pF	200
	CJ	4.3	7.5	±0.25pF, ±0.5pF	200
	CH	8.2	18	±2%, ±5%	200
	CG	20	330	±1%, ±2%, ±5%	200
	CG	360	1,800	±1%, ±2%, ±5%	100
	CG	2,000	3,300	±1%, ±2%, ±5%	50
CCR06	CG	360	1,800	±1%, ±2%, ±5%	200
	CG	2,000	4,700	±1%, ±2%, ±5%	100
	CG	5,100	18,000	±1%, ±2%, ±5%	50
CCR07	CG	2,200	4,700	±1%, ±2%, ±5%, ±10%	200
	CG	5,600	12,000	±1%, ±2%, ±5%, ±10%	100
	CG	15,000	100,000	±1%, ±2%, ±5%, ±10%	50
CCR08	CG	3,900	4,700	±2%, ±5%, ±10%	200
	CG	15,000	18,000	±2%, ±5%, ±10%	100
	CG	56,000	68,000	±2%, ±5%, ±10%	50

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #044. Visit our website <http://www.avxcorp.com>



MIL-PRF-20/Axial Leads

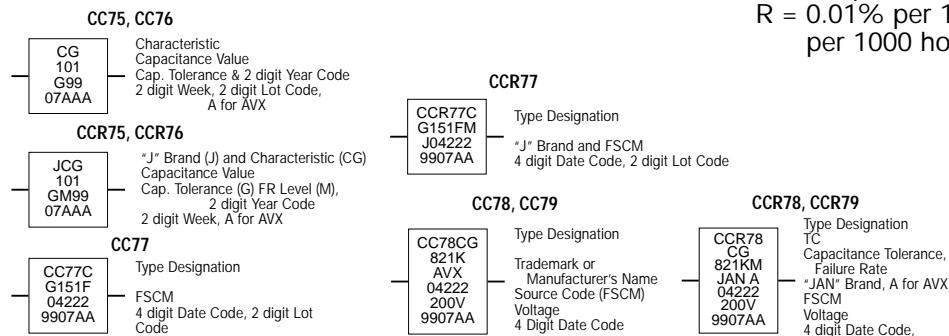
CCR75/76/77/78/79



Dimensions: millimeters (inches)

Per MIL Spec	Case Size		
MIL-PRF-20	Length (L)	Diameter (D)	Lead Diameter (L.D.)
CCR75 CC75	4.07±.25 (0.160±0.010)	2.29±.25 (0.090±0.010)	.48±.05 (0.019±0.002)
CCR76 CC76	6.35±.25 (0.250±0.010)	2.29±.25 (0.090±0.010)	.48±.05 (0.019±0.002)
CCR77 CC77	9.91±.25 (0.390±0.010)	3.56±.25 (0.140±0.010)	.63±.05 (0.025±0.002)
CCR78 CC78	12.7±.51 (0.500±0.020)	6.35±.38 (0.250±0.015)	.63±.05 (0.025±0.002)
CCR79 CC79	17.53±.51 (0.690±0.020)	8.89±.51 (0.350±0.020)	.63±.05 (0.025±0.002)

Marking



Capacitance Range, pF

Mil Type	TC	Min.	Max.	Tolerance	WVDC
CCR75	CX	1.0	2.0	±0.25pF	200
	CK	2.2	3.9	±0.25pF, ±0.5pF	200
	CJ	4.3	7.5	±0.25pF, ±0.5pF	200
	CH	8.2	18.0	±0.25pF, ±0.5pF	200
	CG	20	75	±1%, ±2%, ±5%	200
	CG	82	240	±1%, ±2%, ±5%	100
	CG	270	680	±1%, ±2%, ±5%	50
CCR76	CG	82	130	±1%, ±2%, ±5%	200
	CG	270	680	±1%, ±2%, ±5%	100
	CG	750	1,000	±1%, ±2%, ±5%	50
CCR77	CG	150	680	±1%, ±2%, ±5%	200
	CG	750	2,200	±1%, ±2%, ±5%	100
	CG	2,400	5,600	±1%, ±2%, ±5%	50
CCR78	CG	820	3,300	±1%, ±2%, ±5%, ±10%	200
	CG	3,900	12,000	±1%, ±2%, ±5%, ±10%	100
	CG	15,000	27,000	±1%, ±2%, ±5%, ±10%	50
CCR79	CG	3,900	10,000	±1%, ±2%, ±5%, ±10%	200
	CG	15,000	39,000	±1%, ±2%, ±5%, ±10%	100
	CG	47,000	82,000	±1%, ±2%, ±5%, ±10%	50

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #045. Visit our website <http://www.avxcorp.com>



MIL-PRF-123



CKS Series

MIL-Spec Test Requirements

Test Description	MIL-PRF-123
NDT (Non-Destructive Test)	100% Ultrasonic Scan or Neutron-Radiography
Pre-Cap Visual (Pre-Encapsulation Visual Examination)	100%
D.P.A. (Destructive Physical Analysis)	Lot by Lot—Pre-Termination Lot by Lot—Finished Product
Pre-Cap Terminal Strength (Pre-Encapsulation Pull Test)	Lot by Lot
Life Test / (Lot by Lot)	Lot by Lot—1000 Hours
Low Voltage / Humidity	Lot by Lot
Thermal Shock / 100 Cycles	Lot by Lot

MIL-PRF-123/Style CKS05,-/01	
	BP-TCVC Cap Range RVDC 4.7-240pF 100 270-2,700pF 50
	BX-TCVC Cap Range RVDC 270-4,700pF 100 5,600-10,000pF 50
MIL-PRF-123/Style CKS06,-/02	
	BP-TCVC Cap Range RVDC 270-2,400pF 100 2,700-4,700pF 50
	BX-TCVC Cap Range RVDC 5,600-10,000pF 100 56,000-470,000pF 50

MIL-PRF-123/Style CKS11,-/04		MIL-PRF-123/Style CKS12,-/05		MIL-PRF-123/Style CKS14,-/06	
BP-TCVC Cap Range	RVDC	BP-TCVC Cap Range	RVDC	BP-TCVC Cap Range	RVDC
47-100pF 110-560pF	100 50	100-1,000pF 1,200-4,700pF	100 50	110-220pF 240-470pF	100 50
				1,200-4,700pF 5,600-10,000pF	100 50
MIL-PRF-123/Style CKS15,-/07					
BP-TCVC Cap Range	RVDC	BP-TCVC Cap Range	RVDC	BP-TCVC Cap Range	RVDC
1,100-2,200pF 2,400-22,000pF	100 50	12,000-100,000pF 120,000-180,000pF	100 50	2,400-10,000pF 11,000-22,000pF	100 50
MIL-PRF-123/Style CKS16,-/08					
BP-TCVC Cap Range	RVDC	BP-TCVC Cap Range	RVDC	BP-TCVC Cap Range	RVDC
12,000-47,000pF	100 50	560,000-1,000,000pF	100 50		

MIL-PRF-123/Style CKS22,-/16		MIL-PRF-123/Style CKS23,-/17		MIL-PRF-123/Style CKS24,-/18	
BP-TCVC Cap Range	RVDC	BP-TCVC Cap Range	RVDC	BP-TCVC Cap Range	RVDC
1.0-470pF 560-2,200pF 2,700-4,700pF	200 100 50	270-820pF 1,000-10,000pF 12,000-100,000pF	200 100 50	560-1,200pF 2,700-3,300pF 4,700-10,000pF	200 100 50
				1,000-10,000pF 12,000-100,000pF 120,000-220,000pF	200 100 50
BP-TCVC Cap Range	RVDC	BP-TCVC Cap Range	RVDC	BP-TCVC Cap Range	RVDC
				120,000-150,000pF 180,000-470,000pF	100 50

HOW TO ORDER

M123 A 01 BX B 103 K C
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Mil-Spec Number
- ② Modification Spec.
- ③ Slash Sheet Number
- ④ Voltage-Temperature Limits:

Capacitance Change with reference to 25°C over temperature range -55°C to +125°C		
Symbol	Without Voltage	With Rated DC Voltage
BP	0±30 ppm/°C	0±30 ppm/°C
BX	+15, -15 percent	+15, -25 percent

⑤ Rated Voltage:

Symbol	Rated Voltage Volts, DC
B	50
C	100

⑦ Capacitance Tolerance:

Symbol	Cap. Tolerance ±
C	0.25pF
D	0.5pF
F	1%
J	5%
K	10%

⑥ Capacitance Code

⑧ Termination:

Symbol	Lead Capacitors Termination Style
C	Copper, solder coated (type C-4 or C-5 of MIL-STD-1276)

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #046. Visit our website <http://www.avxcorp.com>

European Detail Specifications

CECC 30-601 & 30-701



SkyCap, SpinGuard and Ceralam capacitors are available to European CECC specifications covering three standard dielectric materials: 1B/C0G, 2C1/X7R and 2F4/Y5V.

To order use AVX part number with the Failure Rate code of "T" for CECC.

SpinGuard – CECC

1B/A BSCECC 30 601 010 Issue 1				2C1/C BSCECC 30 701 014 Issue 1			2F4/E BSCECC 30 701 015 Issue 1	
	50V	100V	200V	50V	100V	200V	50V	100V
A/SA10	1R0-102	1R0-102	1R0-681	221-393	221-273	221-682	102-224	102-154
B/SA20	1R0-222	1R0-222	1R0-152	271-823	271-563	271-153	472-474	472-334
C/SA30	3R3-562	3R3-472	3R3-392	561-184	561-154	561-333	103-105	103-824

Molded Radial – CECC

1B/A CECC 30 601 009 Issue 1				2C1/C CECC 30 701 007 Issue 1			2F4/E CECC 30 701 008 Issue 1	
	50V	100V	200V	50V	100V	200V	50V	100V
B/MR05	1R0-682	1R0-472	1R0-332	221-224	221-154	221-393	103-125	103-224
C/MR06	1R0-223	1R0-153	1R0-123	122-105	122-474	122-124	223-335	223-684

SkyCap – CECC

SR15 = D2	SR20 = D6	SR21 = D7	SR30 = D11	SR40 = D15	SR50 = D14	SR65 = D16
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1B/A CECC 30 601 801 Issue 2					2C1/C CECC 30 701 801 Issue 2				2F4/E CECC 30 701 802 Issue 1	
	50V	100V	200V	500V	50V	100V	200V	500V	50V	100V
SR15	1R0-122	1R0-681	1R0-471	—	221-333	221-273	221-562	—	103-154	103-393
SR20	1R0-682	1R0-392	1R0-392	1R0-152	102-184	102-124	102-333	102-103	103-824	103-224
SR21	1R0-682	1R0-392	1R0-392	1R0-152	102-184	102-124	102-333	102-153	103-824	103-224
SR30	102-273	102-223	102-223	101-472	333-105	333-334	333-124	103-473	104-225	104-684
SR40	103-563	103-393	103-393	—	334-155	334-105	124-274	—	105-156	105-335
SR50	103-104	103-823	103-563	—	104-155	104-185	104-564	—	225-276	225-685
SR65	102-273	102-223	102-103	101-472	333-105	333-334	333-124	103-473	104-225	104-684

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #047. Visit our website <http://www.avxcorp.com>



Disc Ceramic Capacitors

Ordering Code



HOW TO ORDER

5O Q 222

(1) ~ (2) (3) (4) (5)

M A E A A

(6) (7) (8) (9)

(1) General Purpose *Upon Request

5A = NP0 / I	*5I = N2200 / I	5S = Y5U / II
*5B = P100 / I	*5J = N4700 / I	5T = Y5V / II
*5C = N150 / I	5K = SL	5U = Z5V / II
*5D = N220 / I	5M = Y5E / II	*5V = Z4V / III
*5E = N330 / I	5N = Y5F / II	5W = Y5P / III
*5F = N470 / I	5O = Y5P / II	5Y = Y5U / III
5G = N750 / I	*5P = Y5R / II	5Z = Y5V / III
5H = N1500 / I	*5Q = Y5T / II	

(2) Professional Switch Mode Safety *Upon Request

6A = NP0 / I	61 = SAFETY	*6Q = X5T / II
*6B = P100 / I	62 = SAFETY	6S = X5U / II
*6C = N150 / I	65 = SAFETY	6T = X5V / II
*6D = N220 / I	67 = Y5U / SM	6U = Z5V / II
*6E = N330 / I	68 = Y5V / SM	*6V = Z4V / III
*6F = N470 / I	6L = Y5P / SM	6W = Y5P / III
6G = N750 / I	6M = X5E / II	6Y = Y5U / III
*6H = N1500 / I	6N = X5F / II	6Z = Y5V / III
*6I = N2200 / I	6O = X5P / II	
6J = N4700 / I	*6P = X5R / II	

(3) Rated Voltage (dc) *Upon Request

D = 16V	N = SAFETY	S = 2000V	W = 5000V
F = 25V	O = SAFETY	T = 3000V	*X = 6000V
H = 50V	Q = 500V	U = 4000V	*Y = 7500V
K = 100V	R = 1000V	V = SAFETY	

(4) Capacitance 222 = 2.2 nF

Capacitance = TPC code *Upon Request

1 pF = 1R0	18pF = 180	270pF = 271	3.9nF = 392
1.2pF = 1R2	22pF = 220	330pF = 331	4.7nF = 472
1.5pF = 1R5	27pF = 270	390pF = 391	5.6nF = 562
1.8pF = 1R8	33pF = 330	470pF = 471	6.8nF = 682
2.2pF = 2R2	39pF = 390	560pF = 561	8.2nF = 822
2.7pF = 2R7	47pF = 470	680pF = 681	10nF = 103
3.9pF = 3R9	56pF = 560	820pF = 821	15nF = 153
4.7pF = 4R7	68pF = 680	1nF = 102	22nF = 223
5.6pF = 5R6	82pF = 820	1.2nF = 122	33nF = 333
6.8pF = 6R8	100pF = 101	1.8nF = 182	47nF = 473
8.2pF = 8R2	120pF = 121	2.2nF = 222	100nF = 104
10pF = 100	150pF = 151	2.7nF = 272	200nF = 204
12pF = 120	180pF = 181	3.3nF = 332	
15pF = 150	220pF = 221		

(5) Tolerance

C = ±0.25 pF	K = ±10%	Z = -20+80%
D = ±0.50 pF	M = ±20%	P = 0+100%
J = ±5%	S = -20+50%	

(6) Lead Forming

millimeters (inches)	D	-	-
2.5 ±0.5 (0.100 ± 0.025)	D	-	-
5 +0.6 -0.2 (0.200 ± 0.025)	A	O	N
6 +0.6 -0.2 (0.250 ± 0.025)	E	X	-
7.5 +1 -0.5 (0.300 ± 0.050)	B	R	Q
10 +0.5 -1.0 (0.400 ± 0.050)	C	W	-
12.5 +1 -0.5 (0.500 ± 0.050)	P	-	-

(7) Capacitor Diameter ± 2 (0.079) millimeters (inches)

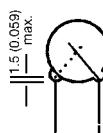
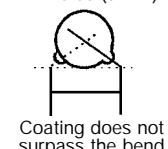
A = 4 (0.157)	E = 8 (0.315)	J = 13 (0.512)
B = 5 (0.197)	F = 9 (0.354)	K = 15 (0.591)
C = 6 (0.236)	G = 10 (0.394)	M* = 19 (0.748)
D = 7 (0.276)	H = 11 (0.433)	

*Wire 0.8 (0.031) recommended

(8) Finishing

Diam ≤ 9 (0.354) and
F = 5.00 (0.197)

For every other:



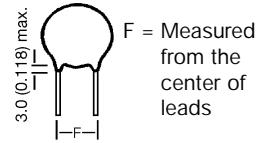
Coating does not
surpass the bend

Low Voltage

A = Phenolic (General Purpose) Q = Waxed phenolic

S = Epoxy (Professional) cap. diameter ≤ 8 (0.315)
D = Epoxy (Professional) cap. diameter > 8 (0.315)

High Voltage



F = Measured
from the
center of
leads

C = Epoxy wire diameter	0.6 (0.024) ± 0.1 (0.004)
I = Epoxy wire diameter	0.8 (0.031) ± 0.1 (0.004)
L = Phenolic wire diameter	0.6 (0.024) ± 0.1 (0.004)

(9) Packaging Cardboard Strips



Bulk

E = 5 (0.197) ± 1 (0.039) free wire length
C = 10 (0.394) ± 1 (0.039) free wire length
D = 25 (0.984) ± 1 (0.039) free wire length

Taping



Avisert	Panasert
H L L	J L L



Avisert	Panasert
I M M	K M M

Please note that not all code combinations are either possible or available.

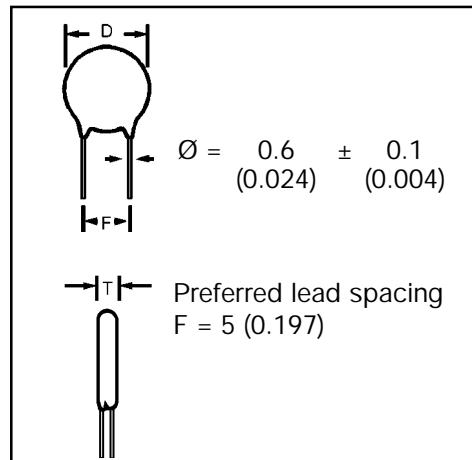
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #048. Visit our website <http://www.avxcorp.com>

Disc Ceramic Capacitors



Temperature Compensating - Class I

Performance Characteristics



	100 V → 500 V	1kV → 5kV
Measured at	1.0 MHz @ 1.0 Vrms & 25°C	1.0 MHz @ 1.0 Vrms & 25°C
Dissipation Factor (%)	$C_R \leq 30 \text{ pF} \rightarrow \leq 1/C_R + 0.07$ $C_R > 30 \text{ pF} \rightarrow \leq 0.1\%$	$C_R \leq 30 \text{ pF} \rightarrow \leq 1/C_R + 0.07$ $C_R > 30 \text{ pF} \rightarrow \leq 0.1\%$
Tolerance	$C_R < 10 \text{ pF} \rightarrow \pm 0.25 \text{ pF}, \pm 0.5 \text{ pF}$ $C_R \geq 10 \text{ pF} \rightarrow \pm 5\%, \pm 10\%$	$C_R < 10 \text{ pF} \rightarrow \pm 0.25 \text{ pF}, \pm 0.5 \text{ pF}$ $C_R \geq 10 \text{ pF} \rightarrow \pm 5\%, \pm 10\%$
Insulation Resistance (IR)	@ $V_R \geq 10 \text{ G}\Omega$	
Dielectric Strength NOTE: Charging current limited to 50 mA	@ $V_R = 100\text{V} \rightarrow V_t = 250\text{V} (\text{DC})$ @ $V_R = 500\text{V} \rightarrow V_t = 1.25\text{kV} (\text{DC})$	1.5 $\times V_R + 500$ (DC)
Operating Temperature Range (°C)	-30 → +85	-30 → +85 Phenolic Coated -30 → +125 Epoxy Coated
Climatic Category	30 / 085 / 21 Phenolic Coated	30 / 085 / 21 Phenolic Coated 30 / 085 / 56 Epoxy Coated

Note: Damp Heat Steady State: 90... 95% R.H. 40°C / 21 days. No voltage to be applied.

Dielectric - Class I

For Ordering Code See Page 48

Cap. Dia. Code (7)	Disc. Dia. mm (in.) $D \pm 2$ (± 0.079)	T max.	Available Capacitance Range, pF														
			NPO						N750						N1500		
			100VDC	500VDC	1000VDC	2000VDC	3000VDC	4000/5000VDC	100VDC	500VDC	1000VDC	2000VDC	3000VDC	4000VDC	5000VDC	100VDC	500VDC
A	4.0 (0.157)	3.0 (0.118)	1.0-15	1.0-15	3.9-5.6	3.9-4.7	-	-	1.5-33	1.5-33	-	-	-	-	-	6.0-47	6.0-47
B	5.0 (0.197)	4.0 (0.157)	18-39	18-27	6.0-15	5.0-12	-	-	39-68	39-56	6.8-27	6.8-22	-	-	-	50-120	50-56
C	6.0 (0.236)	4.0 (0.157)	-	33	18	15-18	5.6-7.0	4.7-7.0	82	68	33	27-33	6.8-20	-	-	-	68-100
D	7.0 (0.276)	4.0 (0.157)	47-50	39-50	20-39	20-33	8.0-15	-	100-150	82-100	39-50	39-50	22-33	-	-	150-220	120
E	8.0 (0.315)	4.0 (0.157)	56-82	56-68	47-50	39	18-27	8.0-15	180	120	56-68	56-68	39-56	15-27	-	270	150-180
F	9.0 (0.354)	5.0 (0.197)	100-120	82	56-68	47-56	33-39	-	220	150	82-100	82	68	-	-	330	220
G	10.0 (0.394)	5.0 (0.197)	-	-	-	-	-	18-27	-	-	-	-	-	-	-	-	-
H	11.0 (0.433)	5.0 (0.197)	150-180	100-150	82-100	68-82	47-56	33-39	270	180-220	120-150	100-120	82	33-56	15-50	-	270-330
J	13.0 (0.512)	6.0 (0.236)	-	-	120	100	68-82	47-50	-	270	180-220	150	100-120	-	-	-	-
K	15.0 (0.591)	6.0 (0.236)	-	180-220	150	120-150	100-120	56	-	330	-	180-270	150-220	68-82	56-68	-	-
M	19.0 (0.748)	7.0 (0.276)	-	270-330	180	-	-	68-100	-	-	-	-	-	100-120	82-100	-	-

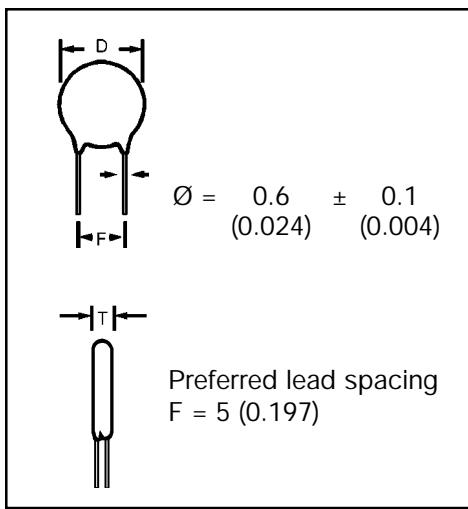
Class SL: For Ordering Code See Page 48

Cap. Dia. Code (7)	Disc. Dia. mm (in.) $D \pm 2$ (± 0.079)	T max.	Available Capacitance Range, pF			
			50V		100V	
			50V	100V	50V	100V
A	4.0 (0.157)	3.0 (0.118)	1.0-220	1.0-220	-	-
B	5.0 (0.197)	4.0 (0.157)	270-470	-	-	-
C	6.0 (0.236)	4.0 (0.157)	560	270-470	-	-
D	7.0 (0.276)	4.0 (0.157)	680-1000	560-680	-	-
E	8.0 (0.315)	4.0 (0.157)	-	820-1,000	-	-

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #049. Visit our website <http://www.avxcorp.com>

Disc Ceramic Capacitors

General Purpose - Class II



Performance Characteristics

Voltage Rating	100V and 500V
Measured at	1.0 kHz / 3.0 Vef / 25°C
Dissipation Factor	Y5E / Y5F / Y5P ≤ 2.5% Y5U / Y5V / Z5V ≤ 3.0%
Capacitance Tolerance	Y5E / Y5F / Y5P → ±10% Y5E / Y5E / Y5P / Y5U → ±20% Y5U / Y5V / Z5V → -20% +50%
Insulation Resistance	@ $V_R \rightarrow \geq 10 \text{ G}\Omega$
Dielectric Strength NOTE: Charging current limited to 50 mA	$V_R = 100\text{V} \rightarrow V_t = 250\text{V}$ (DC) $V_R = 500\text{V} \rightarrow V_t = 1250\text{V}$ (DC)
Operating Temperature Range (°C)	-30... +85
Climatic Category	30 / 085 / 21 Phenolic Coated

Note: Damp Heat Steady State: 90... 95% R.H. 40°C / 21 days. No voltage to be applied.

Performance Characteristics

Voltage Rating	1kV ... 5kV
Measured at	1.0 kHz / 3.0 Vef / 25°C
Dissipation Factor	Y5F → ≤ 2.5% Y5U / Y5V ≤ 3.0%
Capacitance Tolerance	Y5F → ±10% / ±20% Y5U → ±20% / -20 +50% Y5V → -20 +50%
Insulation Resistance	@ 500V → $\geq 10 \text{ G}\Omega$
Dielectric Strength NOTE: Charging current limited to 50 mA	$1.5 \times V_R + 500$ (DC)
Operating Temperature Range (°C)	-30... +85 Phenolic Coated -30... +125 Epoxy Coated
Climatic Category	30 / 085 / 21 Phenolic Coated 30 / 085 / 56 Epoxy Coated

Dielectric - Class II Low and Medium Voltage

For Ordering Code See Page 48

Cap. Dia. mm (in.) Code (7)	Disc. Dia. mm (in.) D ± 2 (±0.079)	T max.	Available Capacitance Range, pF									
			Y5E		Y5F		Y5P		Y5U		Y5V	
			100V	500V	100V	500V	100V	500V	100V	500V	100V	100V
A	4.0 (0.157)	3.0 (0.118)	56-330	56-330	390	390	470-560	470-560	680-1,000	680-1,000	1,200-2,200	1,200-2,200
B	5.0 (0.197)	4.0 (0.157)	390-680	390-470	470-1,000	470-560	680-1,200	680-820	1,200-2,200	1,200-1,500	2,700-3,900	2,700-3,300
C	6.0 (0.236)	4.0 (0.157)	820	560-680	1,200	680-820	1,500	1,000-1,200	2,700-3,300	1,800	4,700	3,900
D	7.0 (0.276)	4.0 (0.157)	1,000	820-1,000	1,500-1,800	1,000	1,800	1,500-1,800	3,900-6,800	2,200-2,700	5,600-6,800	4,700-5,600
E	8.0 (0.315)	4.0 (0.157)	1,200-1,500	1,200	2,200	1,200-1,500	2,200-2,700	2,200	-	3,300-3,900	8,200-10,000	6,800
F	9.0 (0.354)	5.0 (0.197)	1,800-2,200	1,500-1,800	2,700-3,300	1,800	3,300	2,700-3,300	8,200	4,700-5,600	12,000	8,200-10,000
H	11.0 (0.433)	5.0 (0.197)	2,700-3,300	2,200	3,900-4,700	2,200-2,700	3,900-5,600	3,900-4,700	10,000-12,000	6,800-10,000	15,000	12,000
J	13.0 (0.512)	6.0 (0.236)	-	-	-	3,300	6,800	5,600	-	12,000	22,000	15,000
K	15.0 (0.591)	6.0 (0.236)	-	2,700-3,300	-	3,900-4,700	-	6,800	-	-	-	22,000

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #050. Visit our website <http://www.avxcorp.com>

Disc Ceramic Capacitors

General Purpose - Class II



Dielectric - Class II High Voltage

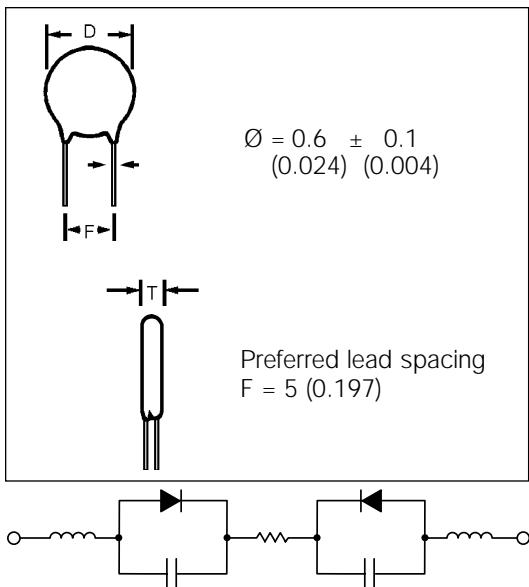
For Ordering Code See Page 48

Cap. Dia. (mm) Code (7)	Disc. Dia. (in.) D ± 2 (±0.079)	T max.	Available Capacitance Range, pF										
			Y5F			Y5U					Y5V		
			1000V	2000V	3000V	1000V	2000V	3000V	4000V	5000V	1000V	2000V	3000V
A	4.0 (0.157)	3.0 (0.118)	100-270	100-150	100-150	330-680	-	-	-	-	820-1,200	-	-
B	5.0 (0.197)	4.0 (0.157)	330-470	180-270	100-150	820-1,200	330-470	-	-	-	1,500	-	-
C	6.0 (0.236)	4.0 (0.157)	560	330	180	1,500	560-820	-	-	-	1,800	1,000-1,200	-
D	7.0 (0.276)	4.0 (0.157)	680-1,200	390-560	220-330	1,800-2,700	1,000-1,500	390-1,000	-	-	2,200-3,900	1,500-2,200	1,200-1,500
E	8.0 (0.315)	4.0 (0.157)	1,500	680-820	390-560	3,300-3,900	1,800	1,200	100-820	-	-	2,700	1,800
F	9.0 (0.354)	5.0 (0.197)	1,800	1,000-1,200	680	4,700	2,200-2,700	1,500-1,800	-	-	4,700-5,600	3,300-3,900	2,200-2,700
G	10.0 (0.394)	5.0 (0.197)	-	1,500	820-1,000	5,600	3,300-3,900	2,200	1,000	-	6,800-8,200	-	-
H	11.0 (0.433)	5.0 (0.197)	2,200-2,700	1,800	1,200	6,800	4,700	2,700-3,300	1,200-2,200	100-1,000	-	4,700-6,800	3,300-3,900
J	13.0 (0.512)	6.0 (0.236)	3,300	2,200-2,700	1,500-1,800	8,200-12,000	5,600-8,200	3,900-5,600	2,700-3,300	1,200-2,200	10,000- 15,000	8,200	4,700-6,800
K	15.0 (0.591)	6.0 (0.236)	3,900	3,300-3,900	2,200-2,700	15,000	10,000	6,800	3,900-4,700	2,700-3,300	22,000	10,000- 15,000	8,200
M	19.0 (0.748)	7.0 (0.276)	-	-	3,300-3,900	-	-	8,200-10,000	5,600-6,800	3,900-4,700	-	-	10,000

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #051. Visit our website <http://www.avxcorp.com>

Disc Ceramic Capacitors

General Purpose - Class III



Performance Characteristics

Measured at	1.0 kHz / 0.1 Vef / 25°C	
Dissipation Factor	$C_R \leq 22 \text{ nF} \rightarrow Y5V, Y5U \leq 7.5\%$ $C_R > 22 \text{ nF} \rightarrow Y5V, Y5P \leq 5.0\%$	
Capacitance Tolerance	$Y5P \rightarrow \pm 20\% / -20 +50\%$ $Y5U \rightarrow \pm 20\% / -20 +80\%$ $Y5V \rightarrow \pm 20\% / -20 +80\%$	
Climatic Category	30 / 085 / 21	
Insulation Resistance @ V_R	Y5P	$\geq 12 \text{ M}\Omega$
	Y5U	$4.7 \text{ nF}...100 \text{ nF} \rightarrow \geq 10 \text{ M}\Omega$ $200 \text{ nF} \rightarrow \geq 1 \text{ M}\Omega$
	Y5V	$\geq 100 \text{ M}\Omega$
Dielectric Strength NOTE: Charging current limited to 50 mA	Between leads	$V_t = 1.25 V_R$
	Body insulation	$V_R = 25V \quad V_t = 100V \text{ (DC)}$ $V_R = 50V \quad V_t = 150V \text{ (DC)}$
Operating Temperature Range (°C)	-30... +85	

Note: Damp Heat Steady State: 90... 95% R.H. 40°C / 21 days. No voltage to be applied.

Dielectric - Class III

For Ordering Code See Page 48

Cap. Dia. Dia. Code (7)	Disc. Dia. mm (in.) $D \pm 2$ (±0.079)	T max.	Available Capacitance Range, pF					
			Y5P		Y5U		Y5V	
			25V	50V	25V	50V	50V	
A	4.0 (0.157)	3.0 (0.118)	4,700	4,700	4,700-10,000	4,700-10,000	4,700-47,000	
B	5.0 (0.197)	4.0 (0.157)	-	-	22,000	-	50,000-68,000	
C	6.0 (0.236)	4.0 (0.157)	10,000	10,000	33,000	22,000	-	
D	7.0 (0.276)	4.0 (0.157)	22,000	-	47,000-68,000	33,000	100,000	
E	8.0 (0.315)	4.0 (0.157)	33,000	22,000	100,000	47,000-50,000	200,000	
F	9.0 (0.354)	5.0 (0.197)	-	33,000	-	68,000-100,000	-	
G	10.0 (0.394)	5.0 (0.197)	47,000-50,000	-	-	-	-	
H	11.0 (0.433)	5.0 (0.197)	68,000	47,000	-	-	-	
J	13.0 (0.512)	6.0 (0.236)	100,000	68,000	200,000	-	-	
K	15.0 (0.591)	6.0 (0.236)	-	100,000	-	-	-	

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #052. Visit our website <http://www.avxcorp.com>

Disc Ceramic Capacitors



These ceramic capacitors have linear temperature coefficient, very low tolerances, low losses, high insulation resistance and are specially suitable for tuned circuits, timing and other precision circuits.

Meets IEC 384-8 (1988).

Safety Ceramic Capacitors

For Ordering Code See Page 48

Cap. Dia. Code	Disc. Dia. mm (in.) $\pm 2 (\pm 0.079)$	T max.	Available Capacitance Range		
			Part Type (1st 3 digits of Part No.)	61V	620
C	6.0 (0.236)	4.0 (0.157)	100-150	100-220	220-470
D	7.0 (0.276)	4.0 (0.157)	220-470	330-680	560-1,000
E	8.0 (0.315)	4.0 (0.157)	560-680	820-1,000	1,200-1,500
F	9.0 (0.354)	5.0 (0.197)	820-1,000	1,200-1,500	2,200
G	10.0 (0.394)	5.0 (0.197)	-	2,200	-
H	11.0 (0.433)	5.0 (0.197)	1,200-2,200	-	3,300
J	13.0 (0.512)	6.0 (0.236)	3,300	3,300-3,900	3,900-4,700
K	15.0 (0.591)	6.0 (0.236)	3,900	4,700	-
M	19.0 (0.748)	7.0 (0.276)	4,700	-	-

AC and Switch Mode Capacitors

For Ordering Code See Page 48

Cap. Dia. Code	Disc. Dia. mm (in.) $\pm 2 (\pm 0.079)$	T max.	Available Capacitance Range			
			Y5P			Y5U
			1000V	2000V	3000V	2000V
D	7.0 (0.276)	4.0 (0.157)	220-470	220-270	220-270	-
E	8.0 (0.315)	4.0 (0.157)	560-820	330-390	-	1,000
F	9.0 (0.354)	5.0 (0.197)	1,000-1,200	470-560	330-390	2,200
G	10.0 (0.394)	5.0 (0.197)	-	680	470-560	3,300
H	11.0 (0.433)	5.0 (0.197)	1,500-1,800	820-1,200	680	4,700
J	13.0 (0.512)	6.0 (0.236)	2,200	1,500	820-1,000	-
K	15.0 (0.591)	6.0 (0.236)	2,700-3,900	1,800-3,300	1,200-2,700	-
M	19.0 (0.748)	7.0 (0.276)	-	3,900-4,700	3,300-4,700	-

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #053. Visit our website <http://www.avxcorp.com>

Disc Ceramic Capacitors



Professional Ceramic Capacitors - Class I, II and III

Class I Professional

For Ordering Code See Page 48

Cap. Dia. Code	Disc. Dia. mm (in.) D ± 2 (±0.079)	T max.	Available Capacitance Range, pF					
			NPO		N750		N1500	
			100V	500V	100V	500V	100V	500V
A	4.0 (0.157)	3.0 (0.118)	1.0-15	1.0-15	1.0-33	1.0-33	6.0-47	6.0-47
B	5.0 (0.197)	4.0 (0.157)	18-39	18-27	39-68	39-56	50-120	50-56
C	6.0 (0.236)	4.0 (0.157)	-	33	82	68	-	68-100
D	7.0 (0.276)	4.0 (0.157)	47-50	39-50	100-150	82-100	150-220	120
E	8.0 (0.315)	4.0 (0.157)	56-82	56-68	180	120	270	150-180
F	9.0 (0.354)	5.0 (0.197)	100-120	82	220	150	330	220
G	10.0 (0.394)	5.0 (0.197)	-	-	-	-	-	-
H	11.0 (0.433)	5.0 (0.197)	150-180	100-150	270	180-220	-	270-330
J	13.0 (0.512)	6.0 (0.236)	-	-	-	270	-	-
K	15.0 (0.591)	6.0 (0.236)	-	180-220	-	330	-	-
M	19.0 (0.748)	7.0 (0.276)	-	270-330	-	-	-	-

Class II Professional Low and Medium Voltage

For Ordering Code See Page 48

Cap. Dia. Code	Disc. Dia. mm (in.) D ± 2 (±0.079)	T max.	Available Capacitance Range								
			X5E		X5F		X5P		X5U		X5V
			100V	500V	100V	500V	100V	500V	100V	500V	100V
A	4.0 (0.157)	3.0 (0.118)	56-330	56-330	390	390	470-560	470-560	680-1,000	680-1,000	1,200-2,200
B	5.0 (0.197)	4.0 (0.157)	390-680	390-470	470-1,000	470-560	680-1,200	680-820	1,200-2,200	1,200-1,500	2,700-3,900
C	6.0 (0.236)	4.0 (0.157)	820	560-680	1,200	680-820	1,500	1,000-1,200	2,700-3,300	1,800	4,700
D	7.0 (0.276)	4.0 (0.157)	1,000	820-1,000	1,500-1,800	1,000	1,800	1,500-1,800	3,900-6,800	2,200-2,700	5,600-6,800
E	8.0 (0.315)	4.0 (0.157)	1,200-1,500	1,200	2,200	1,200-1,500	2,200-2,700	2,200	-	3,300-3,900	8,200-10,000
F	9.0 (0.354)	5.0 (0.197)	1,800-2,200	1,500-1,800	2,700-3,300	1,800	3,300	2,700-3,300	8,200	4,700-5,600	12,000
H	11.0 (0.433)	5.0 (0.197)	2,700-3,300	2,200	3,900-4,700	2,200-2,700	3,900-5,600	3,900-4,700	-	6,800-10,000	15,000
J	13.0 (0.512)	6.0 (0.236)	-	-	-	3,300	6,800	5,600	10,000-12,000	12,000	22,000
K	15.0 (0.591)	6.0 (0.236)	-	2,700-3,300	-	3,900-4,700	-	6,800	-	-	22,000

Dielectric - Class III

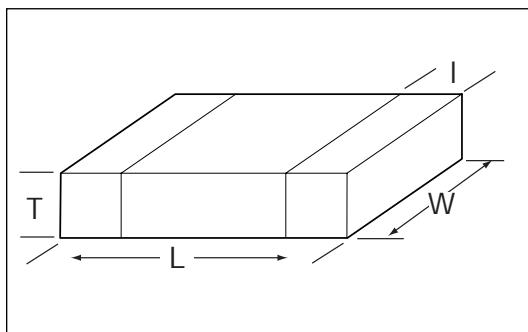
For Ordering Code See Page 48

Cap. Dia. Code	Disc. Dia. mm (in.) D ± 2 (±0.079)	T max.	Available Capacitance Range					
			Y5P		Y5U		Y5V	
			25V	50V	25V	50V	50V	50V
A	4.0 (0.157)	3.0 (0.118)	4,700	4,700	4,700-10,000	4,700-10,000	4,700-47,000	
B	5.0 (0.197)	4.0 (0.157)	-	-	22,000	-	50,000-68,000	
C	6.0 (0.236)	4.0 (0.157)	10,000	10,000	33,000	22,000	-	
D	7.0 (0.276)	4.0 (0.157)	22,000	-	47,000-68,000	33,000	100,000	
E	8.0 (0.315)	4.0 (0.157)	33,000	22,000	-	47,000-68,000	-	
F	9.0 (0.354)	5.0 (0.197)	-	33,000	-	-	-	
G	10.0 (0.394)	5.0 (0.197)	47,000,-50,000	-	-	-	-	
H	11.0 (0.433)	5.0 (0.197)	68,000	47,000	-	-	-	
J	13.0 (0.512)	6.0 (0.236)	100,000	68,000	200,000	-	-	
K	15.0 (0.591)	6.0 (0.236)	-	100,000	-	-	-	

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #054.
Visit our website <http://www.avxcorp.com>

High Voltage Chips

For 500V to 5000V Applications



Standard Packaging

	BULK	TAPE & REEL 7"	13"
1206	5,000	4,000	10,000
1210	5,000	4,000	10,000
1808	500	2,000	4,000
1812	500	1,000	3,000
1825	500	1,000	3,000
2225	500	1,000	3,000
3640	100	N/A	1,000

Dimensions: millimeters (inches)

SIZE	1206	1210	1808	1812	1825	2220	2225	3640
(L) Length	3.20 ± 0.20 (0.126 ± 0.008)	3.20 ± 0.20 (0.126 ± 0.008)	$4.57 \pm .254$ (0.180 ± 0.010)	$4.50 \pm .030$ (0.177 ± 0.012)	4.50 ± 0.30 (0.177 ± 0.012)	5.72 ± 0.40 (0.225 ± 0.016)	$5.72 \pm .254$ (0.225 ± 0.010)	$9.14 \pm .254$ (0.360 ± 0.010)
(W) Width	1.60 ± 0.20 (0.063 ± 0.008)	2.50 ± 0.20 (0.098 ± 0.008)	$2.03 \pm .254$ (0.080 ± 0.010)	3.20 ± 0.20 (0.126 ± 0.008)	6.40 ± 0.30 (0.252 ± 0.012)	5.00 ± 0.40 (0.197 ± 0.016)	$6.35 \pm .254$ (0.250 ± 0.010)	$10.2 \pm .254$ (0.400 ± 0.010)
(T) Thickness max.	1.52 (0.060)	1.70 (0.067)	2.03 (0.080)	2.54 (0.100)	2.54 (0.100)	3.30 (0.130)	2.54 (0.100)	2.54 (0.100)
(t) terminal min. max.	.254 (0.010) .762 (0.030)	.254 (0.010) .762 (0.030)	.254 (0.010) 1.02 (0.040)	.254 (0.010) 1.02 (0.040)	.254 (0.010) 1.02 (0.040)	.254 (0.010) 1.00 (0.039)	.254 (0.010) 1.02 (0.040)	.762 (0.030) 1.52 (0.060)

High Voltage COG

VOLTAGE	1206	1210	1808	1812	1825	2220	2225	3640
500/600	680 pF	1500 pF	2700 pF	5600 pF	0.012 µF	0.012 µF	0.015 µF	0.047 µF
1000	470 pF	820 pF	1500 pF	2700 pF	6800 pF	0.010 µF	0.010 µF	0.018 µF
1500	150 pF	330 pF	470 pF	1000 pF	2700 pF	2700 pF	3300 pF	8200 pF
2000	68 pF	150 pF	270 pF	680 pF	1800 pF	2200 pF	2200 pF	5600 pF
2500	—	—	150 pF	390 pF	1000 pF	1000 pF	1200 pF	3900 pF
3000	—	—	100 pF	300 pF	680 pF	680 pF	820 pF	2200 pF
4000	—	—	—	—	—	—	—	1000 pF
5000	—	—	—	—	—	—	—	680 pF

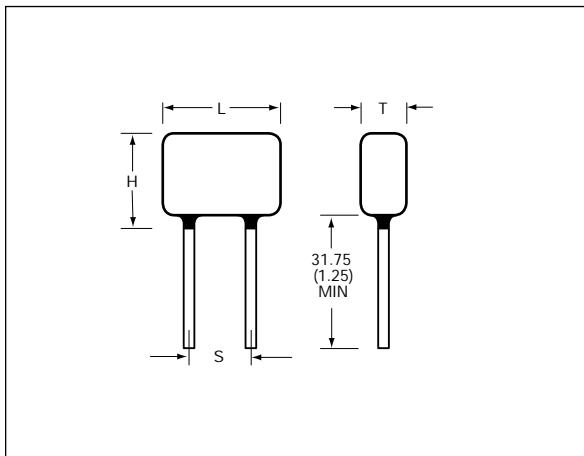
High Voltage X7R

VOLTAGE	1206	1210	1808	1812	1825	2220	2225	3640
500/600	0.015 µF	0.027 µF	0.033 µF	0.068 µF	0.015 µF	0.15 µF	0.22 µF	0.56 µF
1000	4700 pF	0.010 µF	0.015 µF	0.027 µF	0.068 µF	0.068 µF	0.082 µF	0.22 µF
1500	1200 pF	2700 pF	3900 pF	8200 pF	0.018 µF	0.022 µF	0.027 µF	0.068 µF
2000	470 pF	1000 pF	1800 pF	4700 pF	8200 pF	0.010 µF	0.012 µF	0.027 µF
2500	—	—	1200 pF	2200 pF	5600 pF	6800 µF	8200 pF	0.022 µF
3000	—	—	560 pF	1200 pF	2700 pF	3300 µF	4700 pF	0.018 µF
4000	—	—	—	—	—	—	—	6800 pF
5000	—	—	—	—	—	—	—	3300 pF

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #055. Visit our website <http://www.avxcorp.com>



High Voltage MLC Radials



HOW TO ORDER

SV01 A A 102 K A A
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① AVX Style
- ② Voltage: 1000V = A, 2000V = G, 3000V = H
4000V = J, 5000V = K
- ③ Temperature Coefficient: C0G = A, X7R = C
- ④ Capacitance Code
- ⑤ Capacitance Tolerance:
C0G: J = ±5% X7R: K = ±10%
K = ±10% M = ±20%
M = ±20% Z = +80%, -20%
- ⑥ Failure Rate: A = Does not apply
- ⑦ Leads: A = Does not apply

Dimensions: millimeters (inches)

AVX Style	Length (L) max.	Height (H) max.	Thickness (T) max.	Lead Spacing ±.030 (S)	LD (Nom.)
SV01	6.35 (0.250)	5.59 (0.220)	5.08 (0.200)	4.32 (0.170)	.635 (0.025)
SV02	8.13 (0.320)	7.11 (0.280)	5.08 (0.200)	5.59 (0.220)	.635 (0.025)
SV03	9.40 (0.370)	7.62 (0.300)	5.08 (0.200)	6.99 (0.275)	.635 (0.025)
SV04	11.4 (0.450)	5.59 (0.220)	5.08 (0.200)	7.62 (0.300)	.635 (0.025)
SV05	11.9 (0.470)	10.2 (0.400)	5.08 (0.200)	9.53 (0.375)	.635 (0.025)
SV06	14.0 (0.550)	7.1 (0.280)	5.08 (0.200)	10.2 (0.400)	.635 (0.025)
SV07	14.5 (0.570)	12.7 (0.500)	5.08 (0.200)	12.0 (0.475)	.635 (0.025)
SV08	17.0 (0.670)	15.2 (0.600)	5.08 (0.200)	14.6 (0.575)	.635 (0.025)
SV09	19.6 (0.770)	18.3 (0.720)	5.08 (0.200)	17.1 (0.675)	.635 (0.025)
SV10	26.7 (1.050)	12.7 (0.500)	5.08 (0.200)	22.9 (0.900)	.635 (0.025)
SV11	31.8 (1.250)	15.2 (0.600)	5.08 (0.200)	27.9 (1.100)	.635 (0.025)
SV12	36.8 (1.450)	18.3 (0.720)	5.08 (0.200)	33.0 (1.300)	.635 (0.025)
SV13	7.62 (0.300)	9.14 (0.360)	5.08 (0.200)	5.08 (0.200)	.508 (0.020)
SV14	10.2 (0.400)	11.7 (0.460)	5.08 (0.200)	5.08 (0.200)	.508 (0.020)
SV15	12.7 (0.500)	14.2 (0.560)	5.08 (0.200)	10.2 (0.400)	.635 (0.025)
SV16	22.0 (0.870)	16.8 (0.660)	5.08 (0.200)	20.0 (0.790)	.813 (0.032)
SV17	23.6 (0.930)	19.8 (0.780)	6.35 (0.250)	20.3 (0.800)	.813 (0.032)

Standard Packaging

	BULK
SV01	300
SV02	300
SV03	300
SV04	200
SV05	200
SV06	200
SV07	200
SV08	50
SV09	50
SV10	10
SV11	10
SV12	10
SV13	300
SV14	200
SV15	200
SV16	16
SV17	10

Maximum Capacitance Value

COG					X7R						
Style	1000V	2000V	3000V	4000V	5000V	Style	1000V	2000V	3000V	4000V	5000V
SV01	1000pF	180pF	82pF	—	—	SV01	.012μF	1500pF	—	—	—
SV02	3300pF	680pF	270pF	150pF	100pF	SV02	.047μF	5600pF	2700pF	—	—
SV03	5600pF	1200pF	470pF	270pF	180pF	SV03	.082μF	.01μF	4700pF	1800pF	—
SV04	2200pF	470pF	180pF	100pF	68pF	SV04	.033μF	3900pF	1800pF	820pF	—
SV05	.015μF	3300pF	1200pF	680pF	470pF	SV05	.22μF	.027μF	.12μF	4700pF	—
SV06	.0068μF	1500pF	560pF	330pF	220pF	SV06	.10μF	.012μF	6800pF	2700pF	1200pF
SV07	.027μF	5600pF	2200pF	1200pF	820pF	SV07	.39μF	.047μF	.027μF	.01μF	6800pF
SV08	.039μF	.01μF	3900pF	2200pF	1500pF	SV08	.68μF	.082μF	.047μF	.018μF	.012μF
SV09	.068μF	.015μF	6800pF	3900pF	2700pF	SV09	1.00μF	.12μF	.068μF	.027μF	.018μF
SV10	.056μF	.012μF	5600pF	3300pF	2200pF	SV10	.82μF	.10μF	.056μF	.022μF	.018μF
SV11	.082μF	.022μF	.0082μF	4700pF	3300pF	SV11	1.2μF	.18μF	.10μF	.039μF	.027μF
SV12	.15μF	.033μF	.015μF	8200pF	5600pF	SV12	2.20μF	.27μF	.15μF	.056μF	.033μF
SV13	82000fF	1800pF	820pF	390pF	270pF	SV13	0.10μF	.012μF	6800pF	2700pF	—
SV14	.015μF	4700pF	1500pF	820pF	560pF	SV14	0.18μF	.022μF	.015μF	5600pF	—
SV15	.033μF	.01μF	2700pF	1800pF	1200pF	SV15	0.27μF	.033μF	.022μF	8200pF	4700pF
SV16	.068μF	.018μF	6800pF	3900pF	2700pF	SV16	1.0μF	.12μF	.068μF	.027μF	.018μF
SV17	.10μF	.039μF	.012μF	6800pF	4700pF	SV17	1.2μF	.15μF	.082μF	.039μF	.027μF

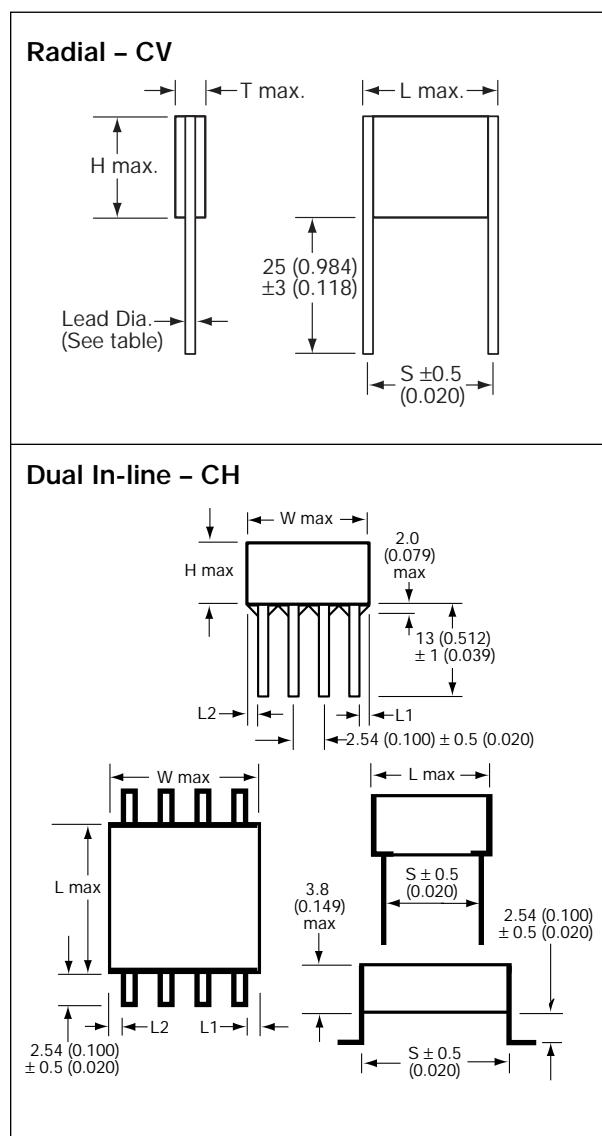
Note: Contact factory for other voltage ratings or values
and for AVX qualifications to DSCC drawings.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #056. Visit our website <http://www.avxcorp.com>

High Voltage Capacitors (European Versions)



Radial and Dual In-Line MLC



HOW TO ORDER

CH 61 K C 103 M A 4 O A 7

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

① AVX Series: CH, CV

② AVX Size

③ Voltage: A=1KVDC H=3KVDC K=5KVDC
G=2KVDC J=4KVDC

④ Dielectric: A=C0G, C=X7R

⑤ Capacitance Code

⑥ Capacitance Tolerance: J=±5%, K=±10%, M=±20%

⑦ Specification: A=Failure rate does not apply

⑧ Packaging:

CV/CH series – 4=Varnished (Single Chip Assy.)

⑨ Lead Diameter: See Table Below

⑩ Lead Space: See Table Below

⑪ Lead Style: 0=Straight Dual-in-line

7='L' lead Dual-in-line

Dimensions: millimeters (inches)

Size	L (max.)	H (max.)	S (nom.)	Lead Dia. (nom.)	Lead Dia. Code
CH41 CV41	9.2 (0.362) 10.6 (0.417)	8.7 (0.343) 8.7 (0.343)	3.8 (0.150) 8.2 (0.323)	8.2 (0.323) 0.7 (0.028)	n/a 4 (0.157)
CH51 CV51	10.7 (0.421) 11.9 (0.469)	10.7 (0.421) 10.7 (0.421)	3.8 (0.150) 10.16 (0.400)	10.16 (0.400) 0.9 (0.035)	n/a 3 (0.118)
CH61 CV61	14.9 (0.587) 16.5 (0.650)	13.6 (0.535) 13.6 (0.535)	3.8 (0.150) 15.24 (0.600)	14.0 (0.551) 0.9 (0.035)	n/a 3 (0.118)
CH76 CV76	21.6 (0.850) 22.7 (0.894)	16.6 (0.654) 16.6 (0.654)	3.8 (0.150) 21.2* (0.835)	20.32 (0.800) 0.9 (0.035)	n/a 3 (0.118)
CH91 CV91	24.0 (0.945) 22.7 (0.894)	40.6 (1.600) 40.6 (1.600)	3.8 (0.150) 21.2* (0.835)	20.32 (0.800) 1.2 (0.047)	n/a 1 (0.039)

Capacitance Ranges

*Tolerance 0.8mm
"T" Max = 3.8mm

Size	C0G (pF)					X7R (nF)				
	1kV	2kV	3kV	4kV	5kV	1kV	2kV	3kV	4kV	5kV
CH41	5600	1800	820	390	330	18	8.2	4.7	1.8	1.2
CV41	15000	4700	1500	820	560	120	15	8.2	4.7	2.7
CH51	12000	3300	1800	1000	680	39	18	10	5.6	3.3
CV51	33000	10000	2700	1800	1200	270	33	18	8.2	3.9
CH61	22000	6800	3300	2200	1500	100	39	22	10	4.7
CV61	68000	18000	5600	3300	2200	560	82	39	15	10
CH76	47000	15000	6800	3900	2700	180	100	47	18	12
CV76	100000	39000	12000	6800	4700	1000	150	68	39	18
CH91	120000	47000	15000	8200	5600	390	180	82	47	22
CV91	330000	100000	33000	18000	12000	2700	330	180	120	56

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
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High Voltage Ceramic Capacitors



HZ Type - Strontium-based Dielectric

Capacitance Range				
Style	Size Code	Capacitance pF ±20%	Voltage V DC	Dimensions millimeters (inches)
				Dmax
	HZ9	100	12KV	9.5 (0.374)
		150	9KV	
		220	6KV	
	HZ12	250	12KV	12.0 (0.472)
		330	9KV	
		430	6KV	
	HZ16	500	12KV	16.0 (0.630)
		680	9KV	
		820	6KV	
	HZ18	750	12KV	18.0 (0.709)
		1000	9KV	
		1300	6KV	
	HZ20	1000	12KV	20.0 (0.787)
		1300	9KV	
		1800	6KV	
	HZ22	1250	12KV	22.0 (0.866)
		1600	9KV	
		2200	6KV	
	HZ26	1500	12KV	26.0 (1.024)
		2000	9KV	
		2700	6KV	

HP Type - Strontium-based Dielectric

Style	Rated Voltage kVdc	Test Voltage kVrms	Reference	AC Corona inception voltage (kV) <5 pico C 50Hz	Capacitance ± 20% (pF)	Dimensions millimeters (inches)			
						D ±1	d	L ±1	h ±2
	20	22	HP 30 E Y 0751 M... HP 40 E Y 0142 M... HP 40 E Y 0152 M... HP 50 E Y 0202 M... HP 50 E Y 0252 M... HP 60 E Y 0302 M... HP 60 E Y 0402 M...	10	750	28 (1.102)	12 (0.472)	23 (0.906)	17 (0.669)
					1400	38 (1.500)	12 (0.472)	23 (0.906)	17 (0.669)
					1500	38 (1.500)	12 (0.472)	23 (0.906)	17 (0.669)
					2000	48 (1.900)	12 (0.472)	23 (0.906)	17 (0.669)
					2500	48 (1.900)	12 (0.472)	23 (0.906)	17 (0.669)
					3000	58 (2.283)	15 (0.591)	23 (0.906)	17 (0.669)
					4000	58 (2.283)	15 (0.591)	23 (0.906)	17 (0.669)
	30	33	HP 30 E 3 0511 M... HP 40 E 3 0941 M... HP 40 E 3 0102 M... HP 50 E 3 0152 M... HP 50 E 3 0172 M... HP 60 E 3 0202 M... HP 60 E 3 0272 M...	15	510	28 (1.102)	12 (0.472)	26 (1.024)	20 (0.787)
					940	38 (1.500)	12 (0.472)	26 (1.024)	20 (0.787)
					1000	38 (1.500)	12 (0.472)	26 (1.024)	20 (0.787)
					1500	48 (1.900)	12 (0.472)	26 (1.024)	20 (0.787)
					1700	48 (1.900)	12 (0.472)	26 (1.024)	20 (0.787)
					2000	58 (2.283)	15 (0.591)	26 (1.024)	20 (0.787)
					2700	58 (2.283)	15 (0.591)	26 (1.024)	20 (0.787)
	40	44	HP 30 E 4 0391 M... HP 40 E 4 0701 M... HP 40 E 4 0721 M... HP 50 E 4 0102 M... HP 50 E 4 0132 M... HP 60 E 4 0152 M... HP 60 E 4 0202 M...	20	390	28 (1.102)	12 (0.472)	30 (1.181)	24 (0.945)
					700	38 (1.500)	12 (0.472)	30 (1.181)	24 (0.945)
					720	38 (1.500)	12 (0.472)	30 (1.181)	24 (0.945)
					1000	48 (1.900)	12 (0.472)	30 (1.181)	24 (0.945)
					1300	48 (1.900)	12 (0.472)	30 (1.181)	24 (0.945)
					1500	58 (2.283)	15 (0.591)	32 (1.260)	26 (1.024)
					2000	58 (2.283)	15 (0.591)	32 (1.260)	26 (1.024)
	50	55	HP 40 E 5 0561 M... HP 50 E 5 0102 M... HP 60 E 5 0112 M...	25	560	38 (1.500)	12 (0.472)	35 (1.378)	23 (0.906)
					1000	48 (1.900)	12 (0.472)	35 (1.378)	23 (0.906)
					1100	58 (2.283)	12 (0.472)	35 (1.378)	23 (0.906)
	100	110	HP 40 E 9 0281 M... HP 50 E 9 0501 M... HP 60 E 9 0851 M...	50	280	38 (1.500)	12 (0.472)	Following Customers Spec. But > 80mm	
					500	48 (1.900)	12 (0.472)		
					850	58 (2.283)	12 (0.472)		

- Tightening torque: 0.3m.daN max.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #058. Visit our website <http://www.avxcorp.com>

High Voltage Ceramic Capacitors



HT/HU Types - Type I

Table of Values

Style	Type Size	Dimensions millimeters (inches)						Tightening torque S (m.daN)	Type	Rated Cap. C _R (pF)	Rated Voltage V _R (kV)	Test Voltage V _E (kV/150Hz)	Capacitance vs Temperature TC (ppm/°C)		
		D	L	h	Ø	d (ISO)	p								
HT 30	25.5 (1.00)	50 (1.97)	30 (1.18)	8 (0.31)	5 (0.20)	9 (0.35)	7 (0.28)	0.3	HT/HU30A	4.7-5.6	17	25	+100 ±100		
	38 (1.50)	50 (1.97)	30 (1.18)	8 (0.31)	5 (0.20)	9 (0.35)	7 (0.28)		HT/HU30A	6.8	10	15			
	56 (2.20)	55 (2.16)	35 (1.38)	12 (0.47)	8 (0.31)	13 (.051)	10 (0.39)		HT/HU40A	8.2	17	25			
HT 40	38 (1.50)	50 (1.97)	30 (1.18)	8 (0.31)	5 (0.20)	9 (0.35)	7 (0.28)	0.3	HT/HU40A	10-15	10	15	+100 ±100		
	56 (2.20)	55 (2.16)	35 (1.38)	12 (0.47)	8 (0.31)	13 (.051)	10 (0.39)		HT/HU60A	18-22	17	25			
	56 (2.20)	55 (2.16)	35 (1.38)	12 (0.47)	8 (0.31)	13 (.051)	10 (0.39)		HT/HU60A	27-47	10	15			
HT 60	56 (2.20)	55 (2.16)	35 (1.38)	12 (0.47)	8 (0.31)	13 (.051)	10 (0.39)	1	HT/HU30H	10	17	25	-33 ±60		
	56 (2.20)	55 (2.16)	35 (1.38)	12 (0.47)	8 (0.31)	13 (.051)	10 (0.39)		HT/HU30H	12	10	15			
	56 (2.20)	55 (2.16)	35 (1.38)	12 (0.47)	8 (0.31)	13 (.051)	10 (0.39)		HT/HU40H	15-22	17	25			
Important: HT type	Hardware supplied for capacitor mounting 2 x screws TCB M5 L8 or TCB M8 L12 according to Ø 2 x washers						Height h: Depending on capacitance please consult us	HT/HU40H	27-33	10	15	-470 ±160			
									HT/HU60H	39-47	17	25			
									HT/HU60H	56-100	10	15			
Important: HU type								HT/HU30T	22	10	15	-750 ±250			
									HT/HU40T	27-33	17	25			
									HT/HU40T	39-56	10	15			
HU 30	22 (0.87)	—							HT/HU60T	68-82	17	25	-750 ±250		
	30 (1.18)	—							HT/HU60T	100-150	10	15			
	42 (1.65)	—							HT/HU30U	22-27	17	25			
Handling of uncoated types must be done under strict cleanliness conditions.															

HF/HB Types - Type II

Style	Reference	C _R (pF)	V _R (kVrms)	V _E (kVrms)	Corona level (kVrms)	Dimensions millimeters (inches)			Weight (g)
						D ±1	L ±2	I ±1.5	
"HF"	HF 60 00 1250M--	125	15	60	>14	17 (0.669)	81 (3.19)	61 (2.40)	115
	HF 60 00 0100M--	100	15	60	>14	17 (0.669)	81 (3.19)	61 (2.40)	115
	HF 60 00 0500M--	50	15	60	>14	17 (0.669)	81 (3.19)	61 (2.40)	115
	HF 60 00 0250M--	25	15	60	>14	17 (0.669)	81 (3.19)	61 (2.40)	115
	HF 60 00 0160M--	16	15	60	>14	17 (0.669)	81 (3.19)	61 (2.40)	115
	HF 40 00 0181M--	180	11	42	>11	17 (0.669)	60 (2.36)	40 (1.57)	80
	HF 40 00 0750M--	75	11	42	>11	17 (0.669)	60 (2.36)	40 (1.57)	80
	HF 40 00 0360M--	36	11	42	>11	17 (0.669)	60 (2.36)	40 (1.57)	80
	HF 40 00 0240M--	24	11	42	>11	17 (0.669)	60 (2.36)	40 (1.57)	80
	HF 30 00 0251M--	250	8	30	>8	17 (0.669)	50.5 (1.99)	30.5 (1.20)	65
	HF 30 00 0101M--	100	8	30	>8	17 (0.669)	50.5 (1.99)	30.5 (1.20)	65
	HF 30 00 0180M--	48	8	30	>8	17 (0.669)	50.5 (1.99)	30.5 (1.20)	65
"HB"	HB 60 00 1250M--	125	15	60	>14	17 (0.669)	—	61 (2.40)	110
	HB 60 00 0100M--	100	15	60	>14	17 (0.669)	—	61 (2.40)	110
	HB 60 00 0500M--	50	15	60	>14	17 (0.669)	—	61 (2.40)	110
	HB 60 00 0250M--	25	15	60	>14	17 (0.669)	—	61 (2.40)	110
	HB 60 00 0160M--	16	15	60	>14	17 (0.669)	—	61 (2.40)	110
	HB 40 00 0181M--	180	11	42	>11	17 (0.669)	—	40 (1.57)	70
	HB 40 00 0750M--	75	11	42	>11	17 (0.669)	—	40 (1.57)	70
	HB 40 00 0360M--	36	11	42	>11	17 (0.669)	—	40 (1.57)	70
	HB 40 00 0240M--	24	11	42	>11	17 (0.669)	—	40 (1.57)	70
	HB 30 00 0251M--	250	8	30	>8	17 (0.669)	—	30.5 (1.20)	55
	HB 30 00 0101M--	100	8	30	>8	17 (0.669)	—	30.5 (1.20)	55
	HB 30 00 0180M--	48	8	30	>8	17 (0.669)	—	30.5 (1.20)	55
	HB 30 00 0320M--	32	8	30	>8	17 (0.669)	—	30.5 (1.20)	55

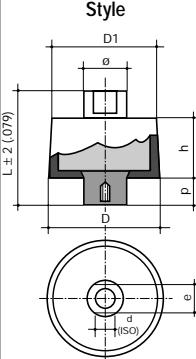
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High Voltage Ceramic Capacitors



HR/HS Types - Type II

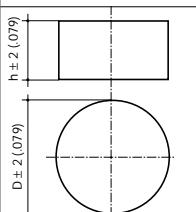
Style 	Reference	C_R (pF)	V_R (kVAC)	V_E (kVAC)	Dimensions millimeters (inches)								Torque S (m.daN)	Weight (g)
					D	D ₁	L	h	\emptyset	d	p	e		
HR 30 0X 0471S--	470	16	24	27 (1.06)	25 (0.98)	37 (1.46)	23 (0.91)	8 (0.31)	5 (0.20)	9 (0.35)	7 (0.28)	0.3	32	
HR 30 0Y 0471S--	470	20	30	34 (1.34)	32 (1.26)	40 (1.57)	28 (1.10)	8 (0.31)	5 (0.20)	9 (0.35)	7 (0.28)	0.3	45	
HR 40 0X 0102S--	1000	16	24	39 (1.54)	37 (1.46)	37 (1.46)	23 (0.91)	8 (0.31)	5 (0.20)	9 (0.35)	7 (0.28)	0.3	65	
HR 40 0Y 0102S--	1000	20	30	44 (1.73)	42 (1.65)	40 (1.57)	28 (1.10)	8 (0.31)	5 (0.20)	9 (0.35)	7 (0.28)	0.3	90	
HR 60 0Y 0222S--	2200	20	30	54 (2.13)	52 (2.05)	47 (1.85)	28 (1.10)	12 (0.47)	8 (0.31)	13 (0.51)	10 (0.39)	1	180	
HR 60 0X 0502S--	5000	16	24	55 (2.17)	54 (2.13)	40 (1.57)	21 (0.83)	12 (0.47)	8 (0.31)	13 (0.51)	10 (0.39)	1	180	

Important: HR type

In order to improve capacitor mounting, connection ends are designed with two flats. Thus, tightening torque is only applied on the screw (consult chart above for torque "S" value).

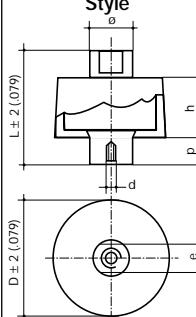
Hardware supplied for capacitor mounting

2 x screws TCB M5 L8 or TCB M8 L12 according to \emptyset
2 x washers

Style 	Reference	C_R (pF)	V_R (kVAC)	V_E (kVAC)	D	L	h	\emptyset	d	p	e	Torque S (m.daN)	Weight (g)
HS 30 0X 0471S--	470	16	24	17	—	—	13						
HS 30 0Y 0471S--	470	20	30	19	—	—	17						
HS 40 0X 0102S--	1000	16	24	26	—	—	14						
HS 40 0Y 0102S--	1000	20	30	29	—	—	16						
HS 60 0Y 0222S--	2200	20	30	37	—	—	14						
HS 60 0X 0502S--	5000	16	24	42	—	—	8						

Handling of uncoated types must be done under strict cleanliness conditions.

HD/HE Types - Type II (N)

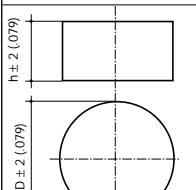
Style 	Reference	C_R (pF)	V_R (kVAC)	V_E (kVAC)	Dimensions millimeters (inches)								Torque S (m.daN)	Weight (g)
					D	L	h	\emptyset	d	p	e			
HD 30 0X 0251S--	250	15	20	26.5 (1.04)	33 (1.30)	16 (.630)	8 (.315)	5 (.197)	9 (.354)	7 (.276)	0.3	30		
HD 30 0X 0501S--	500	15	20	26.5 (1.04)	33 (1.30)	16 (.630)	8 (.315)	5 (.197)	9 (.354)	7 (.276)	0.3	30		
HD 40 0X 0102S--	1000	15	20	39.5 (1.56)	33 (1.30)	16 (.630)	8 (.315)	5 (.197)	9 (.354)	7 (.276)	0.3	60		
HD 60 0Y 0202S--	2000	20	30		45 (1.77)	21 (.827)							160	
HD 60 0X 0302S--	3000	15	20	56.5 (2.22)	40 (1.57)	19 (.748)	12 (.472)	8 (.315)	11 (.433)	10 (.394)	1	135		

Important: HD type

In order to improve capacitor mounting, connection ends are designed with two flats. Thus, tightening torque is only applied on the screw (consult chart above for torque "S" value).

Hardware supplied for capacitor mounting

2 x screws TCB M5 L8 or TCB M8 L12 according to \emptyset
2 x washers

Style 	Reference	C_R (pF)	V_R (kVAC)	V_E (kVAC)	D	L	h	\emptyset	d	p	e	Torque S (m.daN)	Weight (g)
HE 30 0X 0251S--	250	15	20	12	—	8							
HE 30 0X 0501S--	500	15	20	17	—	9							
HE 40 0X 0102S--	1000	15	20	26	—	9							
HE 60 0Y 0202S--	2000	20	30	42	—	12							
HE 60 0X 0302S--	3000	15	20	42	—	9							

Handling of uncoated types must be done under strict cleanliness conditions.

Important: HE type

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High Voltage Ceramic Capacitors

HV/HW Types – Feed-Thru – Type II



HV 30 00 0102 M--	HW 30 00 0102 M--
<p>Technical drawing of HV 30 00 0102 M-- showing dimensions and assembly details. Key dimensions include: - Top hole diameter: Ø 5 (.197) - Body height: 25 (.984) ±3 (.118) - Body width: 30 (.118) ±1 (.039) - Bottom hole diameter: Ø 11 (.433) - Bottom hole depth: 1 (.039) max - Spacing between top and bottom holes: 5 (.197) - Spacing between body and bottom: 15 (.590) - Total height: 20 (.787) - Nut thickness: 2 nuts 17 on flats. th. = 2 - Side hole diameter: Ø 2 (.079)</p>	<p>Technical drawing of HW 30 00 0102 M-- showing dimensions and assembly details. Key dimensions include: - Top hole diameter: 5 (.197) ±1 (.039) - Body height: 22 (.866) ±2 (.079) - Bottom hole diameter: Ø 11.1 (.437) - Bottom hole depth: 5 (.197)</p>

Important

Handling of uncoated type must be done under strict cleanliness conditions.

HC Type Custom Designed Cascades – Type II

How to Design the Stacks

- The design of the capacitor assembly can be done by choosing the desired parameter among the different possibilities listed below. Since not all combinations may be

possible, do not hesitate to consult us for any particular requirement or information.

No. of Discs: 2 to 14
 Voltage/Disc: 6 to 20kVDC

Disc Dia.: 4 to 15mm
 Cap Value/Disc: 100pF to 1200pF

millimeters (inches)

Spacer Style	Style Number	Number of Elements	Rated Voltage (kV _{DC})	Size (disc diameter)	Dielectric Type TPC codes/ε class	Capacitance per Disc (pF)
	1	2			Z 2600 X7R	
		3	8	6 (0.236)		100
	2	4				120
		5	10	8 (0.315)	4 3300 Y5T	150
	3	6				180
		7	12			220
	4	8				250
		9		10 (0.394)		270
	5	10	16		W 7000 Z5U	330
		11				390
	6	12	20	12 (0.472)		470
		13				680
	7	14		17.5 (0.689)		820
Encapsulated version, high voltage dedicated						1000

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #061. Visit our website <http://www.avxcorp.com>



Power Ceramic Capacitors



WA Type Plates - Type I / Type II

Styles and Dimensions

Style	Type	Dimensions millimeters (inches)				Weight (g) min	Assembly Parts
		D max max	E min	∅ max	M		
	WA02	23 (.906)	15 (.590)	25 (.984)	5 (.197)	12	32
	WA03	33 (1.30)	14 (.551)	25 (.984)	5 (.197)	20	50
	WA04	45 (1.77)	15 (.590)	25 (.984)	6 (.236)	40	100
	WA05	58 (2.28)	15 (.590)	25 (.984)	6 (.236)	50	120
	WA06	65 (2.56)	16 (.630)	25 (.984)	6 (.236)	100	200

∅	Type	
∅	Screw	Washer
M5	TCB M5-4.5	AZ 8/1.5
M6	TR M6-6	AZ 11/2

Each capacitor is delivered with two silvered fixing screws and two silvered lockwashers. Washer thickness and screw lengths are defined in order to avoid any pull up on ceramic plate center and consequent destruction of connections.

Type I Plates: Table of Values

Type	Capacitance ranges (pF)	TC (ppm / °C) Δθ = 45°C	V _R (kV _C)	V _E (kV ~ / 50 Hz)	I _{rms} (A)	W _R max (kVAR)
WA 02 A0 • --	5.6-15		5	7.5	5	4
WA 03 A0 • --	10-33	+ 100 ± 100	5	7.5	9	14
WA 04 A0 • --	20-56		5	7.5	15	20
WA 05 A0 • --	68-110		5	7.5	18	40
WA 02 H0 • --	20-27		5	7.5	6	10.8 ... 9.2
WA 03 H0 • --	30-68		7/5	7.5	10	24 ... 20
WA 04 H0 • --	62-120	- 33 ± 60	7/6	7.5	15	31 ... 26
WA 05 H0 • --	120-168		7/6	7.5	18	38 ... 31
WA 02 T0 • --	30-56		5	7.5	5	4
WA 03 T0 • --	62-120		5	7.5	9	11
WA 04 T0 • --	130-240	- 470 ± 160	5	7.5	15	15
WA 05 T0 • --	240-330		5	7.5	18	20
WA 02 U0 • --	62-100		6.5/5	10	8	30 ... 25
WA 03 U0 • --	110-220		7.5/5.5	10	11	35 ... 30
WA 04 U0 • --	220-390	- 750 ± 250	6.7/5.5	10	15	38 ... 35
WA 05 U0 • --	330-560		7.2/6	10	18	55 ... 50

Remarks: When two values are specified for power or voltage the higher value is indicated for min capacitance and the lower value for max capacitance of the range.

Type II Plates: Table of Values

Type	Capacitance ranges (pF)	TC (ppm / °C) Δθ = 45°C	V _R (kV _C)	V _E (kV ~ / 50 Hz)	I _{rms} (A)	W _R max (kVAR)
WA 02 W0 0102S --	1000		3.5	7.5	10	0.25
WA 02 W0 0152S --	1500		3.5	7.5	10	0.25
WA 03 W0 0222S --	2200		3.5	7.5	20	0.5
WA 03 W0 0332S --	3300		3.5	7.5	20	0.5
WA 04 W0 0472S --	4700	Type II	3.5	7.5	25	1
WA 04 W0 0682S --	6800		3.5	7.5	25	1
WA 04 W0 0103S --	10000		3.5	7.5	25	1
WA 05 W0 0103S --	10000		4	8	30	1
WA 05 W0 0223S --	22000		3.5	7.5	30	1
WA 06 W0 0223S --	22000		4	8	35	1

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #062. Visit our website <http://www.avxcorp.com>

Power Ceramic Capacitors

WR Type Plates - Type I / Type II

References - Dimensions

Type	Dimensions millimeters (inches)					Weight (g) min	Assembly Parts
	D max max	E min	Ø max	M	Ø (M)		
WR02	23 (.906)	16 (.630)	20 (.787)	5 (.197)	12	32	Each capacitor is delivered with two silvered fixing screws and two silvered lockwashers. Washer thickness and screw lengths are defined in order to avoid any pull up on ceramic plate center and consequent destruction of connections.
WR03	33 (1.30)	16 (.630)	27 (1.06)	5 (.197)	20	50	
WR04	45 (1.77)	16 (.630)	28 (1.10)	5 (.197)	40	100	
WR05	58 (2.28)	16 (.630)	26 (1.02)	6 (.236)	50	120	
WR06	65 (2.56)	16 (.630)	28 (1.10)	6 (.236)	100	200	

Ø	Type	
	Screw	Washer
M5	TCB M5-4.5	AZ 8/1.5
M6	TR M6-6	AZ 11/2

Table of Values

Type	Capacitance ranges (pF)	TC (ppm / °C)	VR (kVc)		VE in oil (kV ~ / 50 Hz)	Irms (A)	Wr max (kVAR) Δθ ≤ 45°C
			Air	Oil			
WR03A	4.7	+100 ± 100	1.5	17	25	9	6
	6.8-10		1.5	10	15	9	6
	6.8-10		2	17	25	15	10
	12-18		2	10	15	15	10
WR02H	10	-33 ± 60	1	17	25	5	1.5
	12-18		1	10	15	5	1.5
	12-18		1.5	17	25	9	6
	22		1.5	10	15	9	6
	27		2	17	25	15	11.5
	33-47		2	10	15	15	11.5
	56		2.5	17	25	18	20
	68-100		2.5	10	15	18	20
WR02T	15-18	-470 ± 160	1	17	25	5	1.5
	22-27		1	10	15	5	1.5
	33		1.5	17	25	9	6
	39-47		1.5	10	15	9	6
	56-68		2	17	25	15	11.5
	82-100		2	10	15	15	11.5
	120-150		2.5	17	25	18	17.5
	180		2.5	10	15	18	17.5
WR02U	33	-750 ± 250	1	17	25	5	1.5
	47-56		1	10	15	5	1.5
	47-68		1.5	17	25	9	6
	82-100		1.5	10	15	9	6
	82-120		2	17	25	15	11.5
	150-220		2	17	25	15	11.5
	150-220		2.5	17	25	18	17.5
	270-330		2.5	10	15	18	17.5
WR06U	220-270	See curve below	3	17	25	40	22
	330-470		3	10	15	40	18
WR02W	1000	Type II See curve below	2.5	5	10	See curve below	0.25
	2200		2.5	5	10		0.50
	3300		2.5	5	10		0.50
	4700		2.5	5	10		1
	6800		2.5	5	10		1

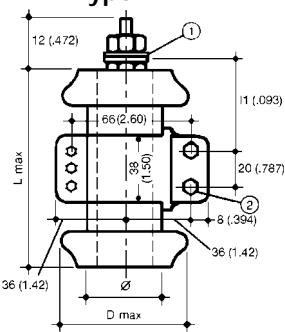
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #063. Visit our website <http://www.avxcorp.com>

Power Ceramic Capacitors

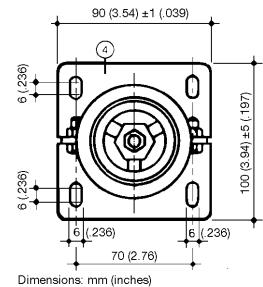
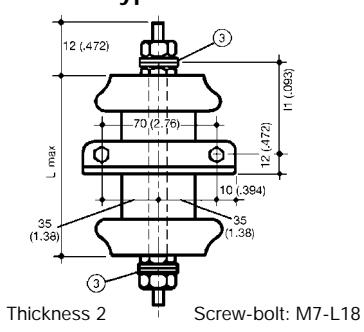


WT / WF Type Tubes - Type I

Type WT



Type WF



Dimensions: millimeters (inches)

References - Capacitance Range

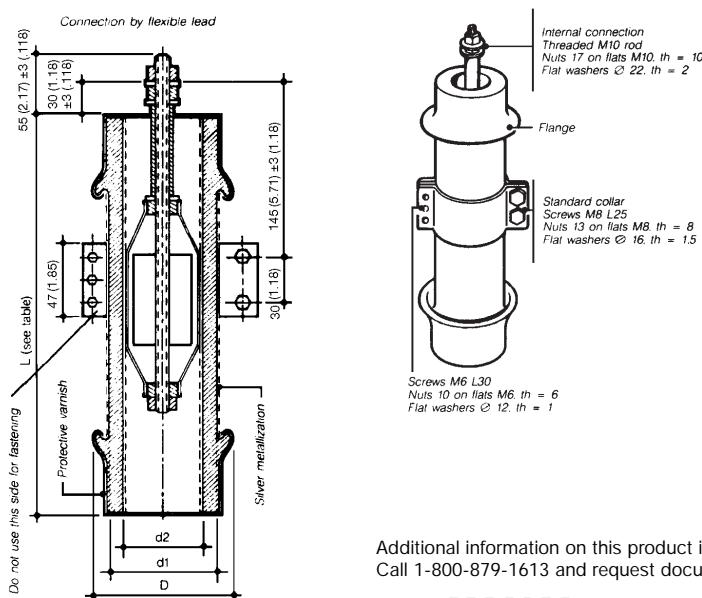
Reference	C_R (pF)	T_C (ppm/ $^{\circ}$ C)	V_R (kVc)	V_E (kV~/50Hz)	I_{rms} (A)	W_m $\Delta\theta 45^{\circ}C$ (kVAR)	Dimensions millimeters (inches)					Weight (A)	
							min	L max	D max	$I_1 \pm 3$	$I_2 \pm 3$		
WT09A	120-150-160-200 220-240-280	-100 ±100	8.5	12	25	90	80 (3.15)	100 (3.94)	48 (1.89)	46 (1.81)	30 (1.18)	17/26 (.669/1.02)	235
WT/WF10T	510-560		8.5	12	50	115	80 (3.15)	100 (3.94)	70 (2.76)	50 (1.81)	32 (1.26)	30/36 (1.18/1.42)	480
WT/WF11T	680-750	-470 ±160	8.5	12	50	85 (3.35)	110 (4.33)	70 (2.76)	45 (1.97)	22 (.866)	32/37 (1.26/1.46)	510/650	
WT/WF12T	680-820		8.5	12	50	160	100 (3.94)	120 (4.72)	70 (2.76)	50 (1.81)	22 (.866)	31/37 (1.22/1.46)	660/715
WT/WF14T	1000		8.5	12	50	180	110 (4.33)	140 (5.51)	70 (2.76)	55 (2.17)	22 (.866)	35/39 (1.38/1.54)	750
WT/WF10U	820-1000		8.5	12	50	75	80 (3.15)	100 (3.94)	70 (2.76)	50 (1.81)	32 (1.26)	30/36 (1.18/1.42)	480
WT/WF11U	1000-1200	-750 ±250	8.5	12	50	75	90 (3.54)	110 (4.33)	70 (2.76)	45 (1.97)	22 (.866)	30/35 (1.18/1.38)	510/650
WT/WF12U	1500		8.5	12	50	85	100 (3.94)	120 (4.72)	70 (2.76)	50 (1.81)	22 (.866)	33/37 (1.30/1.46)	660/715
WT/WF14U	1800-2000		8.5	12	50	100	120 (4.72)	140 (5.51)	70 (2.76)	55 (2.17)	22 (.866)	33/38 (1.30/1.50)	750
WT/WF14V	4700	-1500 ±500	6	8.5	35	35	120 (4.72)	140 (5.51)	70 (2.76)	55 (2.17)	22 (.866)	35/40 (1.38/1.57)	800

Remarks: Min weights indicate max capacitances and reciprocally.

References - Capacitance Range / Electrical Characteristics

Reference	C_R (pF)	T_C (ppm/ $^{\circ}$ C)	V_R (kVc)	V_E (kV~/50Hz)	I_{rms} (A)	W_R (kVAR)	With ventilation	I_{rms} (A)	W_R (kVAR)	Reason Frequen (MHz)	Dimensions millimeters (inches)				Mean weight (g)	Flange Color	
											min	L max	D	d1	d2		
WT27A00331K-	330		12	17	65	300				37	110 (4.33)	130 (5.12)	90 (3.54)	70 (2.75)	64 (2.52)	1500	White
WT27A00501K-	500		12	17	65	300				170 (6.69)	200 (7.87)	92 (3.62)	71 (2.80)	58 (2.28)	1800	White	
WT27A00821K-	820	+100 ±100	18	26	65	450		78	700	33	240 (9.45)	270 (10.62)	91 (3.58)	70 (2.75)	58 (2.28)	2000	White
WT27A00102K-	1000		15	21	65	300				240 (9.45)	270 (10.62)	91 (3.58)	70 (2.75)	58 (2.28)	2000	White	
WT27H00102K-	1000	-33 ± 60	18	26	30	135				240 (9.45)	270 (10.62)	86 (3.39)	66 (2.60)	47 (1.85)	2700	Green	
WT27T00152K-	1500		18	26	65	350				240 (9.45)	270 (10.62)	91 (3.58)	74 (2.91)	50 (1.98)	3100	Orange	
WT27T00222K-	2200	-470 ±160	15	21	72	375				240 (9.45)	270 (10.62)	90 (3.54)	70 (2.75)	60 (2.36)	2500	Orange	
WT27U00222K-	2200		18	26	54	275		70	600		240 (9.45)	270 (10.62)	88 (3.46)	67 (2.64)	47 (1.85)	2900	Yellow
WT27U00332K-	3300	-750 ±250	15	21	60	275				240 (9.45)	270 (10.62)	90 (3.54)	70 (2.75)	53.5 (2.11)	2400	Yellow	
WT27U00402K-	4000		15	21	60	275				240 (9.45)	270 (10.62)	90 (3.54)	70 (2.75)	53.5 (2.11)	2400	Yellow	

WT 27 Type Tubes - Type I



Remarks:

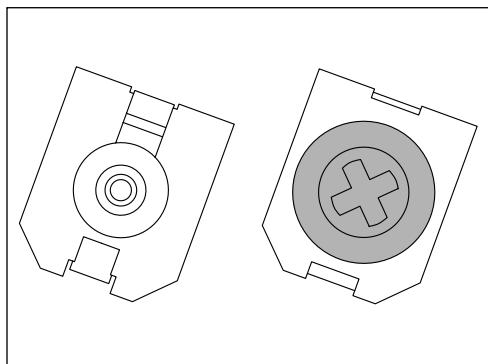
It is strongly recommended to tighten again connections after a certain working time.
Dim. (mm)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #064. Visit our website <http://www.avxcorp.com>



Multilayer Ceramic Chip Trimmer Capacitors

CTZ2 Series



HOW TO ORDER

CTZ2 E - 03 A - W 2 - P
 ① ② ③ ④ ⑤ ⑥ ⑦

① **CTZ2 Series**

② **Type:** S=Reflow non-washable type, E=Reflow washable type

③ **Maximum Capacitance:**

03=3pF, +100, -0%; 05=5pF, +100, -0%;
 10=10pF, +100, -0%; 20=20pF, +100, -0%

④ **Temperature Characteristic:**

A=NPO±500ppm/°C, C=N750±500 ppm/°C

⑤ **Packaging Method:**

B=Bulk, W=Taping (W direction), X=Taping (X direction)

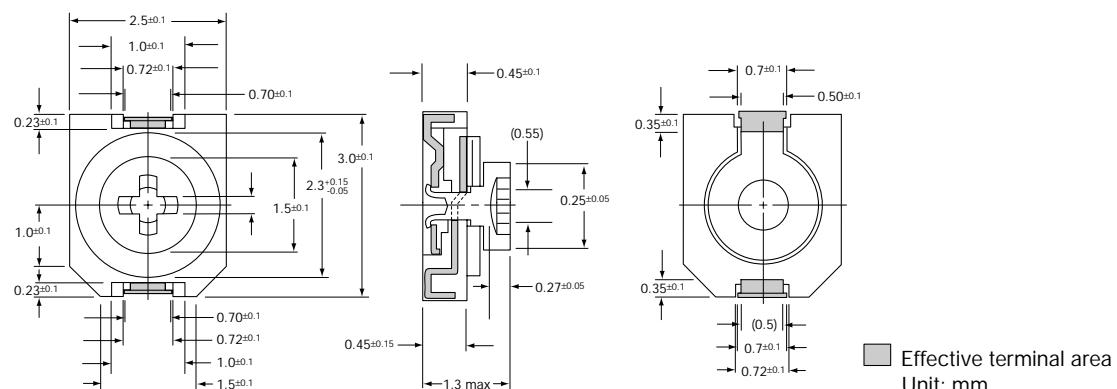
⑥ **Standard Packaged Quantity:** 2=2000 pcs per reel

⑦ **Standard:** P=Philips adjust

Optional: A=Setting drift ±1% (Philips adjust)
 I=Ultra thin 1.0mm max.

Note: Bulk packaging = 2,000 pcs

Philips Adjustment Dimensions



Specifications

TYPE CTZ2-A				
Part No.	Min. cap value (pF)	Max. cap value (pF)	TC (ppm/°C)	Voltage Rating
CTZ2O-03A	2	3	NPO±500	25V
CTZ2O-05A	3	5	NPO±500	25V
CTZ2O-05C	2.5	5	N750±500	25V
CTZ2O-10A	3	10	NPO±500	25V
CTZ2O-10C	5	10	N750±500	25V
CTZ2O-20C	5.5	20	N750±500	25V
CTZ2O-30C	7	30	N750±500	25V

TYPE CTZ2-P				
Part No.	Min. cap value (pF)	Max. cap value (pF)	TC (ppm/°C)	Voltage Rating
CTZ2O-03A	2	3	NPO±500	25V
CTZ2O-05A	3	5	NPO±500	25V
CTZ2O-05C	2.5	5	N750±500	25V
CTZ2O-10A	3	10	NPO±500	25V
CTZ2O-10C	5	10	N750±500	25V
CTZ2O-20C	5.5	20	N750±500	25V
CTZ2O-30C	7	30	N750±500	25V

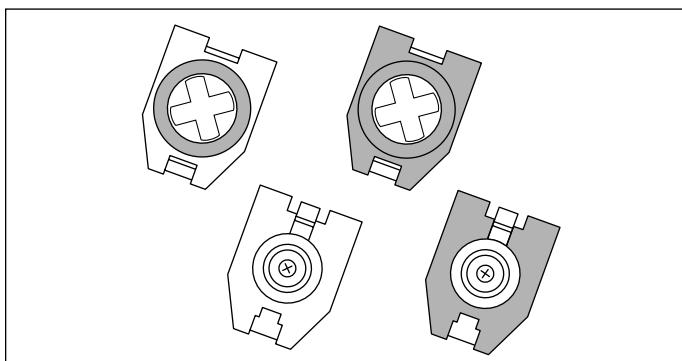
TYPE CTZ2-I				
Part No.	Min. cap value (pF)	Max. cap value (pF)	TC (ppm/°C)	Voltage Rating
CTZ2O-03A	2	3	NPO±500	25V
CTZ2O-05A	3	5	NPO±500	25V
CTZ2O-05C	2.5	5	N750±500	25V
CTZ2O-10A	3	10	NPO±500	25V
CTZ2O-10C	5	10	N750±500	25V
CTZ2O-20C	5.5	20	N750±500	25V
CTZ2O-30C	7	30	N750±500	25V

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #065. Visit our website <http://www.avxcorp.com>

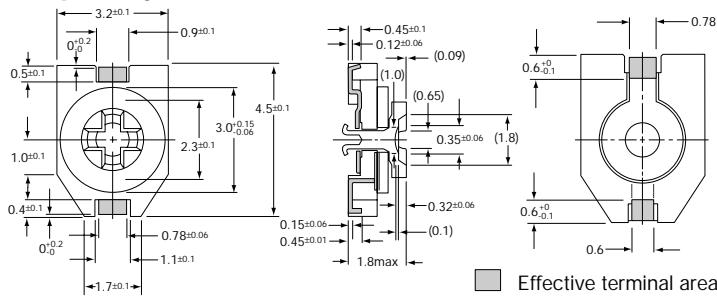


Multilayer Ceramic Chip Trimmer Capacitors

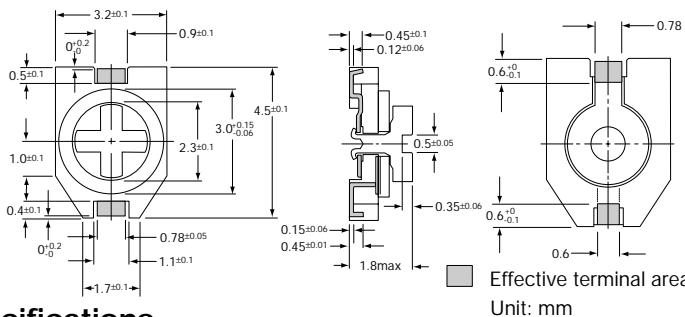
CTZ3 Series



Philips Adjustment Dimensions



Lead Form Dimensions



Specifications

TYPE CTZ3-A (max. height - 1.8mm)				
Part No.	Min. cap value (pF)	Max. cap value (pF)	TC (ppm/°C)	Voltage Rating
CTZ3O-03A	1.5	3	NPO±500	25V
CTZ3O-05A	2	5	NPO±500	25V
CTZ3O-05C	3	5	N750±500	25V
CTZ3O-10A	4	10	NPO±500	25V
CTZ3O-10B	2	10	N400±500	25V
CTZ3O-10C	3	10	N750±500	25V
CTZ3O-20C	7.5	20	N750±500	25V
CTZ3O-30C	7.5	30	N750±500	25V
CTZ3O-40C	7.5	40	N750±500	25V
CTZ3O-50C	12.5	50	N750±500	25V

TYPE CTZ3-P (max. height - 1.8mm)				
Part No.	Min. cap value (pF)	Max. cap value (pF)	TC (ppm/°C)	Voltage Rating
CTZ3O-03A	1	3	NPO±500	25V
CTZ3O-05A	1.5	5	NPO±500	25V
CTZ3O-05C	2	5	N750±500	25V
CTZ3O-10A	2.5	10	NPO±500	25V
CTZ3O-10B	1.5	10	N400±500	25V
CTZ3O-10C	3	10	N750±500	25V
CTZ3O-20C	5	20	N750±500	25V
CTZ3O-30C	5	30	N750±500	25V
CTZ3O-40C	5	40	N750±500	25V
CTZ3O-50C	7	50	N750±500	25V

TYPE CTZ3-P1.5 (max. height - 1.8mm)				
Part No.	Min. cap value (pF)	Max. cap value (pF)	TC (ppm/°C)	Voltage Rating
CTZ3O-03A	1	3	NPO±500	25V
CTZ3O-05A	1.5	5	NPO±500	25V
CTZ3O-05C	2	5	N750±500	25V
CTZ3O-10A	2.5	10	NPO±500	25V
CTZ3O-10B	1.5	10	N400±500	25V
CTZ3O-10C	3	10	N750±500	25V
CTZ3O-20C	5	20	N750±500	25V
CTZ3O-30C	5	30	N750±500	25V
CTZ3O-40C	5	40	N750±500	25V
CTZ3O-50C	7	50	N750±500	25V

TYPE CTZ3-PR (max. height - 1.8mm)				
Part No.	Min. cap value (pF)	Max. cap value (pF)	TC (ppm/°C)	Voltage Rating
CTZ3O-03A	1	3	NPO±500	25V
CTZ3O-05A	1.5	5	NPO±500	25V
CTZ3O-05C	2	5	N750±500	25V
CTZ3O-10A	2.5	10	NPO±500	25V
CTZ3O-10B	1.5	10	N400±500	25V
CTZ3O-10C	3	10	N750±500	25V
CTZ3O-20C	5	20	N750±500	25V
CTZ3O-30C	5	30	N750±500	25V
CTZ3O-40C	5	40	N750±500	25V
CTZ3O-50C	7	50	N750±500	25V

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #066. Visit our website <http://www.avxcorp.com>

HOW TO ORDER

CTZ3 E - 03 A - W - 1 - P F
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① **CTZ3 Series**

② **Type:** S=Reflow non-washable type,
E=Reflow washable type

③ **Maximum Capacitance:**

03=3pF, +100, -0%; 05=5pF, +100, -0%;
10=10pF, +100, -0%; 20=20pF, +100, -0%;
30=30pF, +100, -0%; 40=40pF, +100, -0%

④ **Temperature Characteristic:**

A=NPO±500ppm/°C, B=N400±500ppm/°C,
C=N750±500 ppm/°C

⑤ **Packaging Method:**

B=Bulk, W=Taping (W direction)
X=Taping (X direction option)

⑥ **Packaging Quantity:** (per reel)

1=1000 pcs, 5=5000 pcs

⑦ **Standard:** P=Philips Adjust

Optional:

A=Setting drift ±1% (Philips adjust)

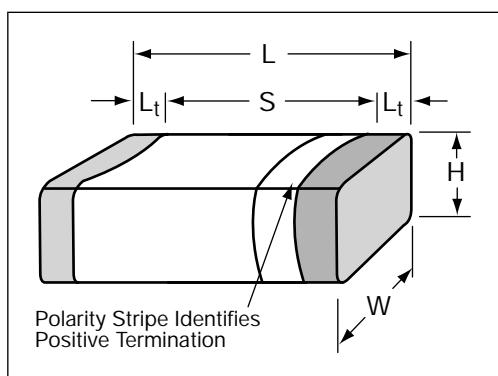
P1.5=Product height 1.5mm max.
(Philips adjust)

PR=Reverse Type (bottom adjust)

⑧ **Standard:** F=Lead Form

Surface Mount Tantalum Capacitors

TACmicrochip



HOW TO ORDER

TAC **L** **225** **M** **003** **R** ******

① Type: Microchip

② Case: L=0603, R=0805

③ Capacitance: pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)

④ Capacitance Tolerance: K=±10%, M=±20%

⑤ Rated DC Voltage

⑥ Packaging Termination Finish:

X=8mm 4 1/4" Tape & Reel, R=7" Tape and Reel Solder Plated
(For Gold Plated, Solder Plated or Waffle Packaging - Consult Factory)

⑦ Additional characters may be added for special requirements

Ratings and Part Number Reference-0603

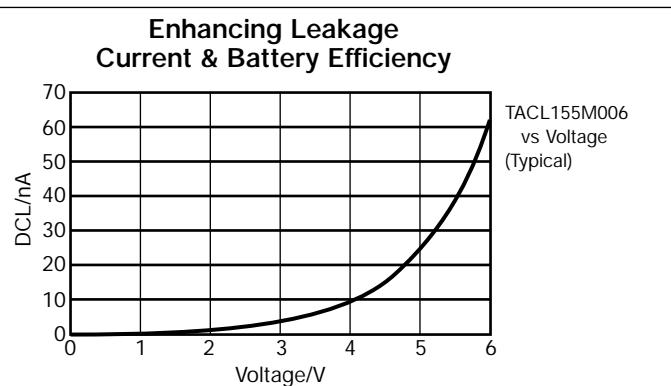
Dimensions: millimeters (inches)

Case Size	L	S	W	H
0603 (1608)	1.6 ^{+0.25} _{-0.15} (0.063 ^{+0.010} _{-0.006})	0.8 min (0.031) min	0.85 ^{+0.20} _{-0.10} (0.033 ^{+0.008} _{-0.004})	0.85 ^{+0.20} _{-0.10} (0.033 ^{+0.008} _{-0.004})
0805 (2012)	2.0 ^{+0.25} _{-0.15} (0.079 ^{+0.010} _{-0.006})	1.1 min (0.043) min	1.35 ^{+0.20} _{-0.10} (0.053 ^{+0.008} _{-0.004})	1.35 ^{+0.20} _{-0.10} (0.053 ^{+0.008} _{-0.004})

Capacitance and Voltage Matrix

		Rated Voltage at 85°C				
Cap μF	Code	2	3	4	6.3	10
0.47	474				0603 S	
0.68	684				0603 S	
1.0	105			0603 S	0603 S	
1.5	155		0603 S	0603 E	0603 E	
2.2	225	0603 S	0603 S	0603 E	0603 E	
3.3	335	0603 S	0603 S	0603 E	0603 D	0805 S
4.7	475	0603 S	0603 E	0603 E	0603 D	0805 S
6.8	685	0603 E	0603 E		0805 S	0805 E
10	106		0603 E	0805 S	0805 S	0805 E
15	156		0805 S	0805 S	0805 D	
22	226	0805 S	0805 E			
33	336	0805 E	0805 E	0805 E		
47	476	0805 E	0805 D			

■ = Standard Range ○ = Extended Range ● = Development Range



AVX Style	Case Size	Capacitance μF @120Hz	Leakage μA (Max)	DF % Max	ESR Max @100kHz
(2 volt)					
TAC	0603	3.3	0.5	6	10
TAC	0603	4.7	0.5	6	10
TAC	0603	6.8	0.5	6	10
(3 volt)					
TAC	0603	2.2	0.5	6	10
TAC	0603	3.3	0.5	6	10
TAC	0603	4.7	0.5	6	10
TAC	0603	6.8	0.5	6	10
TAC	0603	10	0.5	6	10
(4 volt)					
TAC	0603	1.5	0.5	6	10
TAC	0603	2.2	0.5	6	10
TAC	0603	3.3	0.5	6	10
TAC	0603	4.7	0.5	6	10
(6.3 volt)					
TAC	0603	1.0	0.5	6	10
TAC	0603	1.5	0.5	6	10
TAC	0603	2.2	0.5	6	10
(10 volt)					
TAC	0603	0.47	0.5	6	10
TAC	0603	0.68	0.5	6	10
TAC	0603	1.0	0.5	6	10
TAC	0603	1.5	0.5	6	10
TAC	0603	2.2	0.5	6	10

Ratings and Part Number Reference-0805

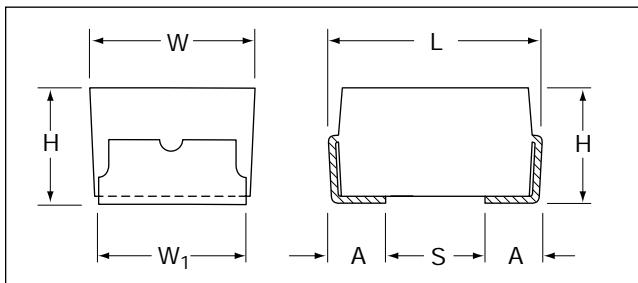
AVX Style	Case Size	Capacitance μF @120Hz	Leakage μA (Max)	DF % Max	ESR Max @100kHz
(2 volt)					
TAC	0805	22	0.5	8	6
TAC	0805	33	0.7	8	6
TAC	0805	47	1.0	8	6
(3 volt)					
TAC	0805	15	0.5	8	6
TAC	0805	22	0.7	8	6
TAC	0805	33	1.0	8	6
(4 volt)					
TAC	0805	10	0.5	8	6
TAC	0805	15	0.6	8	6
TAC	0805	33	1.3	8	6
(6.3 volt)					
TAC	0805	6.8	0.5	8	6
TAC	0805	10	0.6	8	6
TAC	0805	15	0.9	8	6
(10 volt)					
TAC	0805	3.3	0.5	8	6
TAC	0805	4.7	0.5	8	6
TAC	0805	6.8	0.7	8	6
TAC	0805	10	1.0	8	6

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #067. Visit our website <http://www.avxcorp.com>



Surface Mount Tantalum Capacitors

TAZ Series



Dimensions: millimeters (inches)

Case Code	Length $L \pm .38$ (0.015)	Width $W \pm .38$ (0.015)	Height $H \pm .38$ (0.015)	Term. Width $W_1 \pm .13$ (0.005)	Term. Length $A \pm .13$ (0.005)	"S" Min
"Regular"						
A	2.54 (0.100)	1.27 (0.050)	1.27 (0.050)	1.27 (0.050)	.76 (0.030)	.38 (0.015)
B	3.81 (0.150)	1.27 (0.050)	1.27 (0.050)	1.27 (0.050)	.76 (0.030)	1.65 (0.065)
D	3.81 (0.150)	2.54 (0.100)	1.27 (0.050)	2.41 (0.095)*	.76 (0.030)	1.65 (0.065)
E	5.08 (0.200)	2.54 (0.100)	1.27 (0.050)	2.41 (0.095)*	.76 (0.030)	2.92 (0.115)
F	5.59 (0.220)	3.43 (0.135)	1.78 (0.070)	3.30 (0.130)	.76 (0.030)	3.43 (0.135)
G	6.73 (0.265)	2.79 (0.110)	2.79 (0.110)	2.67 (0.105)	1.27 (0.050)	3.56 (0.140)
H	7.24 (0.285)	3.81 (0.150)	2.79 (0.110)	3.68 (0.145)**	1.27 (0.050)	4.06 (0.160)

Note: For solder coated terminations add 0.38 (0.015) max. to length and height dimensions.

* Tolerance: +0.13/-0.25 (+0.005/-0.010)

** Tolerance: +0.13/-0.51 (+0.005/-0.020)

HOW TO ORDER

TAZ D 335 M 015 C R SZ 0000

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Type

② Case Code: (See table)

③ Capacitance Code

④ Tolerance: J=±5%, K=±10%, M=±20%

⑤ Rated DC Voltage

⑥ Lead Configuration:

C = Chip, X = Extended Range

⑦ Packaging: R = 7" tape and reel
S = 13" tape and reel

⑧ Manufacturing Routing and Failure Rate:
S = Standard, Z = Not applicable

⑨ Termination Finish*:

0000 = Fuse solder plated

0800 = Hot solder dipped

0900 = Gold plated*

Standard Packaging

	TAPE & REEL	
	7"	13"
A	2,500	9,000
B	2,500	9,000
C	2,500	9,000
D	2,500	8,000
E	2,500	8,000
F	1,000	3,000
G	500	2,500
H	500	2,500

Capacitance and Voltage Range (letter denotes case code)

Capacitance		Rated Voltage (V_R) at 85°C							
μF	Code	4V	6V	10V	15V	20V	25V	35V	50V
0.1	104								A
0.15	154								A
0.22	224								B
0.33	334								B
0.47	474								
0.68	684				A	B	A	B	D
1.0	105			A	(A)	B	B		
1.5	155				B	(B)	D	E	
2.2	225	A	A	B	(A)	D	(B)	E	(D)
3.3	335		B	(A)	D	(B)	E	(D)	
4.7	475		B	(A)	D	(B)	E	(E)	
6.8	685		D	(B)	E	(D)	F	(E)	
10	106	D	(B)	E	(D)	F	(E)	G	
15	156	E	(D)	F	(E)	G	(F)	H	
22	226	D	F	E	E	H	G	H	
33	336	F	(E)	G	H	H			
47	476	G	H	F	G	H			
68	686	H	(F)	G	(G)	H			
100	107	H	(F)	G	H				
150	157	G	(G)						
220	227		H						

█ = Standard Range

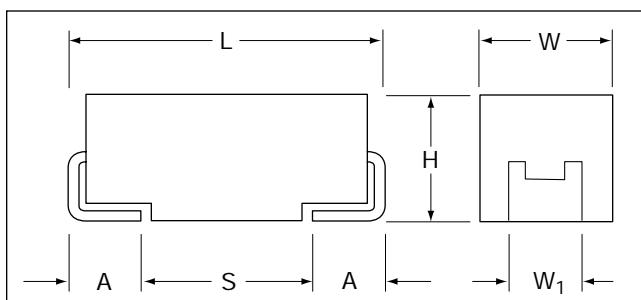
○ = Extended Range

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #068. Visit our website <http://www.avxcorp.com>

Surface Mount Tantalum Capacitors



TAJ Series - Solid Tantalum Chip Capacitors (EIA Standard)



Standard Packaging

	TAPE & REEL 7" 13"	
A	2,000	8,000
B	2,000	8,000
C	500	3,000
D	500	2,500
E	400	1,500
V	400	1,500

Dimensions: millimeters (inches)

Code	EIA Code	L±0.2 (0.008)	W+0.2 (0.008) -0.1 (0.004)	H+0.2 (0.008) -0.1 (0.004)	W ₁ ±0.2 (0.008)	A+0.3 (0.012) -0.2 (0.008)	S Min.
A	3216	3.2 (0.126)	1.6 (0.063)	1.6 (0.063)	1.2 (0.047)	0.8 (0.031)	1.1 (0.043)
B	3528	3.5 (0.138)	2.8 (0.110)	1.9 (0.075)	2.2 (0.087)	0.8 (0.031)	1.4 (0.055)
C	6032	6.0 (0.236)	3.2 (0.126)	2.6 (0.102)	2.2 (0.087)	1.3 (0.051)	2.9 (0.114)
D	7343	7.3 (0.287)	4.3 (0.169)	2.9 (0.114)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
E	7343H	7.3 (0.287)	4.3 (0.169)	4.1 (0.162)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
V	—	6.1 (0.240)	7.3 (0.287)	3.45±0.3 (0.136±0.012)	3.1 (0.122)	1.4 (0.055)	3.4 (0.134)

W₁ dimension applies to the termination width for A dimensional area only.

Capacitance and Voltage Range (letter denotes case code)

Capacitance		Rated Voltage (V _R) at 85°C								
µF	Code	2V	4V	6.3V	10V	16V	20V	25V	35V	50V
0.10	104								A	A
0.15	154								A	A/B
0.22	224								A	A/B
0.33	334								A	B
0.47	474								A	A/B
0.68	684								A	C
1.0	105								A	A/B
1.5	155								A	B/C
2.2	225				A	A	A/B	B/A	B/C	D
3.3	335				A	A/B	A/B	B/C	C(B)	C
4.7	475				A	B(A)	B/C(A)	C(B)	C/D(B)	D
6.8	685			A	A/B	A/B	B/C	C(B)	C/D(B)	D
10	106				A	A/B	B/C(A)	C(B)	C/D	D
15	156				B(A)	B(A)	B/C(A)	C(B)	D(C)	D
22	226				B/C(A)	C(B)	C(D)	D(C)	D(C)	E
33	336			A(B)	C(B)A	C/D(B)	D(C)B	D(C)	E(D)	D
47	476			B(A)	C/D(B)	D(C)	D(C)	D(C)	D	E
68	686			B/C(B)	C/D(B)	D(C)	D(C)	E(D)	V(E)	
100	107				B(C)	D(C)B	D(C)	E(D)	D(E)	
150	157				B	C(D)	E(D)	D		
220	227				C(D)	C(D)	D(E)	D(E)		
330	337			C	E	D(E)	E(V)	E(V)		
470	477				E	E(V)				
680	687				E	V				
1000	108			D	E					
1500	158			E						

BOLD = Standard Range

○ = Extended Range

● = Development Range

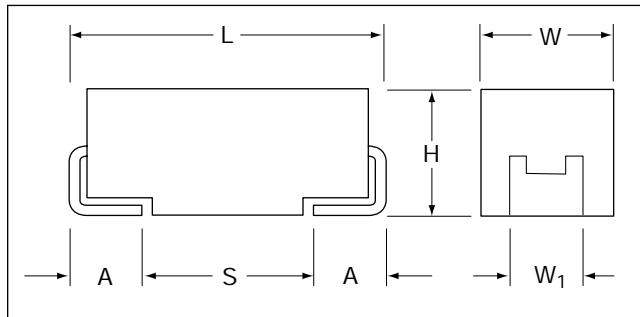
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #069. Visit our website <http://www.avxcorp.com>



Surface Mount Tantalum Capacitors



TAJ Series - Low Profile Solid Tantalum Chip Capacitors



Standard Packaging

	TAPE & REEL 7" 13"	
R	2,500	10,000
S	2,500	10,000
T	2,500	10,000
W	1,000	5,000
Y	1,000	4,000

HOW TO ORDER

TAJ R 105 K 010 R *
 ① ② ③ ④ ⑤ ⑥ ⑦

① Type

② Case Code: (See table below)

③ Capacitance Code:

pF Code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)

④ Tolerance:

K=10%, M=±20%
 (J=±5%, consult factory for details)

⑤ Rated DC Voltage

⑥ Packaging: R=7" tape and reel,
 S=13" tape and reel

⑦ Additional characters may be added for special requirements

Dimensions: millimeters (inches) - metric dimensions govern

Code	EIA Code	L±0.2 (0.008)	W+0.2 (0.008) -0.1 (0.004)	H max.	W ₁ ±0.1 (0.004)	A+0.30 (0.012) -0.1 (0.004)	S Min.
0805 Equivalent							
R	2012	2.05 (0.081)	1.3 (0.051)	1.2 (0.047)	1.2 (0.047)	0.5 (0.020)	0.85 (0.033)
Low Profile Versions							
S	3216L	3.2 (0.126)	1.6 (0.063)	1.2 (0.047)	1.2 (0.047)	0.8 (0.031)	1.1 (0.043)
T	3528L	3.5 (0.138)	2.8 (0.110)	1.2 (0.047)	2.2 (0.087)	0.8 (0.031)	1.4 (0.055)
W	—	6.0 (0.236)	3.2 (0.126)	1.5 (0.059)	2.2 (0.087)	1.3 (0.051)	2.9 (0.114)
Y	—	7.3 (0.287)	4.3 (0.169)	2.0 (0.079)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)

W₁ dimension applies to the termination width for A dimensional area only.

Pad stand-off is 0.1±0.1.

Capacitance and Voltage Range (letter denotes case code)

Capacitance		Rated Voltage (V _R) at 85°C						
μF	Code	2V	4V	6.3V	10V	16V	20V	25V
0.10	104						R/S	
0.15	154						R/S	
0.22	224						R/S	
0.33	334						R/S	
0.47	474						R/S	
0.68	684						R/S/T	
1.0	105				R/S	R/S/T	R/S/T	
1.5	155				R/S	S	T	
2.2	225			R/S	R/S	T	T	
3.3	335		R/S	R/S	S/T	T		
4.7	475	R	R/S	S/T	T			
6.8	685	R	S/T	T	T			W
10	106	S	R/T	R	T	W		
15	156			T		W	W	
22	226						W	X
33	336			W		W		
47	476			W		W		
68	686			Y	W	X		
100	107			W		Y		
150	157			X		X		
220	227		W	Y	X Y	Y		
330	337		W	X Y	Y			
470	477		X Y					
680	687		X Y					
1000	108	Y						

BOLD = Standard Range

W = 1.5mm height in a D case footprint

O = Extended Range

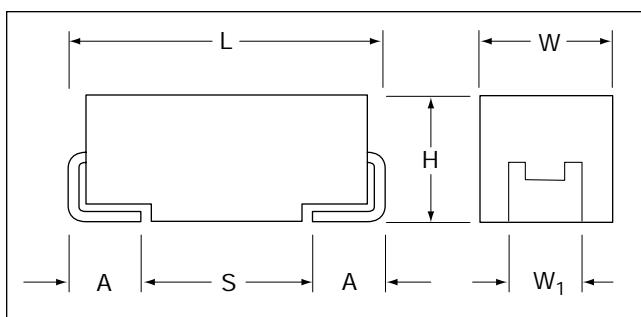
● = Development Range

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #070. Visit our website <http://www.avxcorp.com>

Surface Mount Tantalum Capacitors



TPS Series - Low ESR Solid Tantalum Chip Capacitors (EIA Standard)



Dimensions: millimeters (inches)

Code	EIA Code	W+0.2 (0.008) -0.1 (0.004)	L±0.2 (0.008)	H+0.2 (0.008) -0.1 (0.004)	W ₁ ±0.2 (0.008)	A+0.3 (0.012) -0.2 (0.008)	S Min.
A	3216	1.6 (0.063)	3.2 (0.126)	1.6 (0.063)	1.2 (0.047)	0.8 (0.031)	1.1 (0.043)
B	3528	2.8 (0.110)	3.5 (0.138)	1.9 (0.075)	2.2 (0.087)	0.8 (0.031)	1.4 (0.055)
C	6032	3.2 (0.126)	6.0 (0.236)	2.6 (0.102)	2.2 (0.087)	1.3 (0.051)	2.9 (0.114)
D	7343	4.3 (0.169)	7.3 (0.287)	2.9 (0.114)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
E	7343H	4.3 (0.169)	7.3 (0.287)	4.1 (0.162)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
V		6.1 (0.240)	7.3 (0.287)	3.45 ±0.3 (0.136±0.012)	3.1 (0.122)	1.4 (0.055)	3.4 (0.134)

W₁ dimension applies to the termination width for A dimensional area only.

HOW TO ORDER

TPS E 107 M 016 R 0100
 ① ② ③ ④ ⑤ ⑥ ⑦

① Type

② Case Code: (See table below)

③ Capacitance Code:

pF Code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)

④ Tolerance:

K=10%, M=±20%

⑤ Rated DC Voltage

⑥ Packaging:

R=7" tape and reel, S=13" tape and reel

⑦ Maximum ESR at 100kHz at 25°C in milliohms (from matrix)

Standard Packaging

	TAPE & REEL	
	7"	13"
A	2,000	8,000
B	2,000	8,000
C	500	3,000
D	500	2,500
E	400	1,500
V	400	1,500

Capacitance and Voltage Range (letter denotes case code)

Capacitance		Rated Voltage (V _R) at 85°C					
μF	Code	6.3V	10V	16V	20V	25V	35V
1.5	155					A(3000)	B(3000)
2.2	225			A(3500)	A(3000)	B(2500)	B(2000)
3.3	335			A(3500)	A(2500)	B(2000)	C(700)
4.7	475		A(2500)	A(2000)	A(1800)	B(1500)	C(600)
6.8	685	A(1800)	A(1800)	B(1200)	C(700)	C(700)	D(500)
10	106	A(1500)	A(1800)	B(800)	B(1000) C(700)	C(500)	D(300)
15	156	A(1500)	A(1000)	B(800)	C(450)	D(300)	C(450) D(300)
22	226	A(1000) B(600)	B(700)	C(375)	C(400) D(300)	D(200)	D(400) E(200-300)
33	336	B(600)	C(375-500)	C(300)	D(200)	E(175-300)	D(300)
47	476	B(500) C(300)	C(350)	C(350) D(150-200)	D(200) E(150)	D(250)	
68	686	B(500) C(200)	D(150)	D(150)	E(125-170)	V(95-300)	
100	107	C(150)	C(100-200) D(65-140)	D(125-150) E(100-150)	D(175) V(85-200)		
150	157	C(150) D(125)	D(100)	D(150) V(75)			
220	227	D(100)	D (100-150) E(60-150) V(60)	V(75-150)			
330	337	D(100) E(100-150) V(60-100)	D(100-150) E(60-100) V(60-100)				
470	477	D (100-200) V(55-100) E(50-200)	E(50-200)				

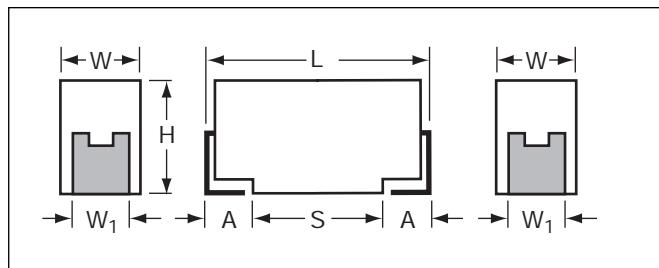
ESR limits quoted in brackets are in milliohms

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #071. Visit our website <http://www.avxcorp.com>



Surface Mount Tantalum Capacitors

THJ - High Temperature Series



HOW TO ORDER

THJ B 156 M 006 R

① ② ③ ④ ⑤ ⑥

① Series Name

② Case Size

③ Capacitance Code

④ Capacitance Tolerance:
K=10%, M=±20%

⑤ Voltage:

004 = 4V	006 = 6.3V	010 = 10V
016 = 16V	020 = 20V	025 = 25V
035 = 35V		

⑥ Packaging:

X = 4 1/4" reel
R = 7" reel
S = 13" reel

MARKING



1. Voltage Code J for 6.3V
2. Capacitance in μ F
3. Date Code

Mechanical Specifications

Case Size		Dimensions					
AVX	EIA	L ±0.2	W +0.2/-0.1	H +0.2/-0.1	A+0.3 -0.2	S min.	W ₁ ±0.2
A	3216	3.2 (0.126)	1.6 (0.063)	1.6 (0.063)	0.8 (0.031)	1.1 (0.043)	1.2 (0.047)
B	3528	3.5 (0.138)	2.8 (0.110)	1.9 (0.075)	0.8 (0.031)	1.4 (0.055)	2.2 (0.087)
C	6032	6.0 (0.236)	3.2 (0.126)	2.6 (0.102)	1.3 (0.051)	2.9 (0.114)	2.2 (0.087)
D	7343	7.3 (0.287)	4.3 (0.169)	2.9 (0.114)	1.3 (0.051)	4.4 (0.173)	2.4 (0.094)

Range Offering

Capacitance μ F	Rated Voltage (V_R) at 85°C						
	4V	6.3V	10V	16V	20V	25V	35V
0.10							A
0.15							A
0.22							A
0.33							A
0.47						A	B
0.68						A	B
1.0						A	B
1.5					A		C
2.2				A		B	C
3.3			A		B		C
4.7	A			B			C
6.8				B		C	D
10				B		C	D
15		B			C		D
22		B		C		D	
33			C		D		
47		C		D			
68		C		D			
10.0			D				
15.0		D					
22.0							

Technical Specifications

Rated Voltage DC (V_R)	@ $\leq +85^\circ\text{C}$:	6.3	10	16	20	25	35
Category Voltage DC (V_C)	@ $+150^\circ\text{C}$:	3.2	5	8	10	12.5	17.5
Surge Voltage (V_s)	@ $\leq +85^\circ\text{C}$:	8.2	13	20.8	26	32.5	45.5
Surge Voltage (V_s)	@ $+150^\circ\text{C}$:	4.1	6.5	15.4	13	16.2	22.7
Temperature Range:	-55°C to +150°C						

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #072. Visit our website <http://www.avxcorp.com>

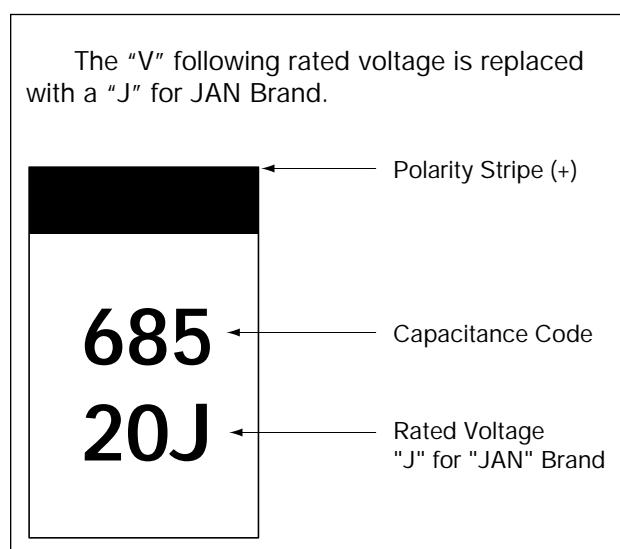


Surface Mount Tantalum Capacitors

CWR09 Style (MIL-PRF-55365/4)



Marking (military qualified)



Standard Packaging

CASE SIZE	TAPE & REEL 7"	TAPE & REEL 13"	WAFFLE
A	2,500	9,000	160
B	2,500	9,000	112
C	2,500	9,000	90
D	2,500	8,000	88
E	2,500	8,000	60
F	1,000	3,000	48
G	500	2,500	50
H	500	2,500	28

Range Series

Capacitance and Voltage Range (letter denotes case code)		Rated Voltage DC (V_R) at 85°C							
Capacitance		4V	6V	10V	15V	20V	25V	35V	50V
μF	Code								
0.1	104								A
0.15	154							A	
0.22	224							B	
0.33	334							B	
0.47	474							C	
0.68	684							D	
1.0	105			A				D	
1.5	155			B				E	
2.2	225	A	A	C				F	
			B	D	B			G	
3.3	335		B	C	D			H	
4.7	475	C	C	D	E				
6.8	685		D	E	F				
10	106	D	E	F	F				
15	156	E							
22	226		F						
33	336	F		G	H				
47	476	G		H					
68	686								
100	107	H							

Note: CWR09 is fully interchangeable with CWR06. Case sizes correspond to TAZ A through H. Contact AVX for latest qualification status.

Note: "C" case size has limited availability. Where possible use "D" case size.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #073. Visit our website <http://www.avxcorp.com>

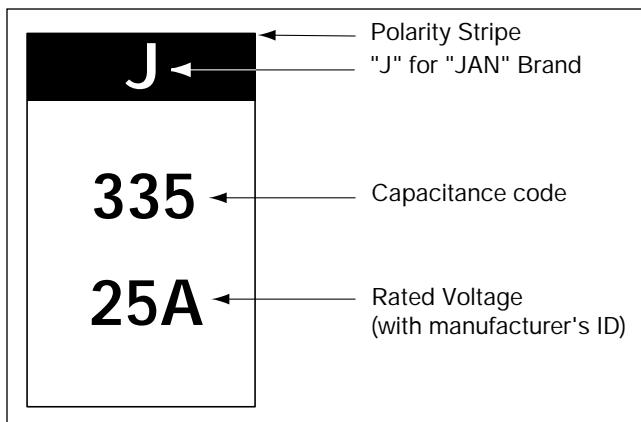


Surface Mount Tantalum Capacitors

CWR11 Style (MIL-PRF-55365/8)



MIL-PRF-55365/8 Marking (CWR11 style)



HOW TO ORDER

CWR11 J B 225 K M A \TR
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Style

② **Voltage:** C=4VDC, D=6VDC, F=10VDC, H=15VDC,
 J=20VDC, K=25VDC, M=35VDC, N=50VDC

③ **Termination Finish:** B=Gold Plated
 C=Hot Solder Dipped, K=Solder Fused

④ Capacitance Code

⑤ **Tolerance:** J=±5%, K=±10%, M=±20%

⑥ **Failure Rate:** Exponential: M=1%/1000 hours
 P=0.1%/1000 hours
 R=0.01%/1000 hours
 S=0.001%/1000 hours

Weibull:
 B=0.1%/1000 hours
 C=0.01%/1000 hours

⑦ Optional Surge Current:

A=10 cycles at 25°C
 B=10 cycles at -55°C and +85°C

⑧ Packaging:

Bulk (Standard if nothing is specified in this position)

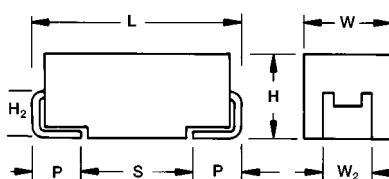
\TR=7" Tape & Reel
 \TR13=13" Tape & Reel
 \W=Waffle Pack

Standard Packaging

Case Size reference	Tape width mm	180mm (7") reel Qty.	330mm (13") reel Qty.
A	8	2,000	8000
B	8	2,000	8000
C	12	500	3000
D	12	500	2500

Dimensions: millimeters (inches)

Case Code	H	H ² (min)	L	.3 (±0.012)	W	.1 (±0.004)
A	1.6±.2 (0.063±0.008)	0.7 (0.028)	3.2±.2 (0.126±0.008)	0.8 (0.031)	1.6±.2 (0.063±0.008)	1.2 (0.047)
B	1.9±.2 (0.075±0.008)	0.7 (0.028)	3.5±.2 (0.138±.0008)	0.8 (0.031)	2.8±.2 (0.110±0.008)	2.2 (0.087)
C	2.5±.3 (0.098±0.012)	1.0 (0.039)	6.0±.3 (0.236±0.012)	1.3 (0.051)	3.2±.3 (0.126±0.012)	2.2 (0.087)
D	2.8±.3 (0.110±0.012)	1.0 (0.039)	7.3±.3 (0.287±.0012)	1.3 (0.051)	4.3±.3 (0.169±0.012)	2.4 (0.094)



Range Series

Capacitance and Voltage Range (letter denotes case code)

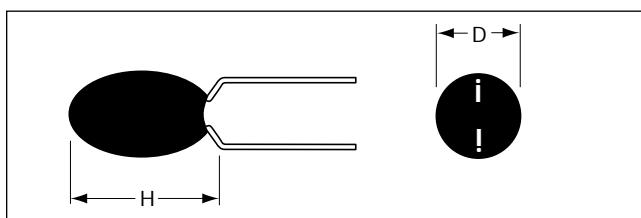
Capacitance		Rated Voltage DC (V _R) at 85°C						
μF	Code	6V	10V	15V	20V	25V	35V	50V
0.10	104						A	A
0.15	154						A	B
0.22	224						A	B
0.33	334						A	B
0.47	474						A	C
0.68	684			A	A	B	B	C
1.0	105		A	A	A	B	B	C
1.5	155	A	A	A	B	B	C	D
2.2	225	A	A	B	B	C	C	D
3.3	335	A	B	B	B	C	C	
4.7	475	B	B	B	C	C	D	
6.8	685	B	B	C	C	D		
10	106	B		C		D		
15	156	C						
22	226	C	C	D				
33	336	D	D					
47	476							
68	686							

Note: Contact AVX for latest qualification status.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #074. Visit our website <http://www.avxcorp.com>

Dipped Radial Tantalum Capacitors

TAP Series



Dimensions: mm (inches) Standard Packaging

CASE	H	*H ₁	D	CASE	BULK	T/R 14"	AMMO
A	8.5 (0.33)	7.0 (0.28)	4.5 (0.18)	A	1000	1500	3000
B	9.0 (0.35)	7.5 (0.30)	4.5 (0.18)	B	1000	1250	3000
C	10.0 (0.39)	8.5 (0.33)	5.0 (0.20)	C	1000	1250	3000
D	10.5 (0.41)	9.0 (0.35)	5.0 (0.20)	D	1000	1250	3000
E	10.5 (0.41)	9.0 (0.35)	5.5 (0.22)	E	1000	1000	2500
F	11.5 (0.45)	10.0 (0.39)	6.0 (0.24)	F	1000	1000	2500
G	11.5 (0.45)	10.0 (0.39)	6.5 (0.26)	G	1000	750	2500
H	12.0 (0.47)	10.5 (0.41)	7.0 (0.28)	H	1000	750	2000
J	13.0 (0.51)		8.0 (0.31)	J	500	750	2000
K	14.0 (0.55)		8.5 (0.33)	K	500	500	1000
L	14.0 (0.55)		9.0 (0.35)	L	500	500	1000
M	14.5 (0.57)		9.0 (0.35)	M	100	500	1000
N	16.0 (0.63)		9.0 (0.35)	N	100	500	1000
P	17.0 (0.67)		10.0 (0.39)	P	100	500	1000
R	18.5 (0.73)		10.0 (0.39)	R	100	500	1000

*H₁ refers to H dimension on S wire form.

Marking

Capacitance, DC voltage, polarity and an "A" are laser marked on the capacitor body.

- Polarity • Voltage
- Capacitance • AVX logo
- ±10% tolerance coded with "K" on reverse side of unit.

Capacitance Range (letter denotes case code)

Capacitance µF	Rated Voltage DC (V _R)						
	6.3V	10V	16V	20V	25V	35V	50V
0.1						A	A
0.15						A	A
0.22						A	A
0.33						A	A
0.47						A	A
0.68						A	B
1.0				A	A	A	C
1.5				A	A	A	D
2.2		A	A	A	A	B	E
3.3	A	A	A	B	B	C	F
4.7	A	A	B	C	C	E	G
6.8	A	B	C	D	D	F	H
10	B	C	D	E	E	F	J
15	C	D	E	F	F	H	K
22	D	E	F	H	H	K	L
33	E	F	F	J	J	M	
47	F	G	J	K	M	N	
68	G	H	L	N	N		
100	H	K	N				
150	K	N	P				
220	M	P	R				
330	P	R					

Values outside this standard range may be available on request without appropriate release or qualification.

AVX reserves the right to supply capacitors to a higher voltage rating, in the same case size, than that ordered.

HOW TO ORDER

TAP 475 M 035 SCS

(1) (2) (3) (4) (5)

(1) AVX Type

(2) Capacitance Code

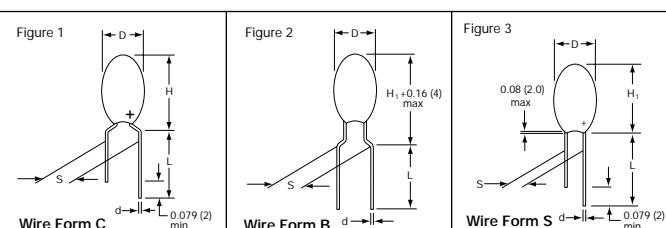
(3) Capacitance Tolerance:

K=±10%, M=±20%,

For J=±5% tolerance, please consult factory

(4) Rated DC Voltage

(5) Suffix indicating
wire form and packaging:



Wire Form	Figure	Case Size (see note 1)	L	S	d	Packaging Suffixes Available
C	Figure 1	A - R*	16±4 (0.630±0.160)	5.0±1.0 (0.200±0.040)	0.5±0.05 (0.020±0.002)	CCS Bulk CRW Tape/Reel CRS Tape/AMMO
B	Figure 2	A - H	16±4 (0.630±0.160)	5.0±1.0 (0.200±0.040)	0.5±0.05 (0.020±0.002)	BRW Tape/Reel BRS Tape/AMMO
S	Figure 3	A - H*	16±4 (0.630±0.160)	2.5±0.5 (0.100±0.020)	0.5±0.05 (0.020±0.002)	SCS Bulk SRW Tape/Reel SRS Tape/AMMO

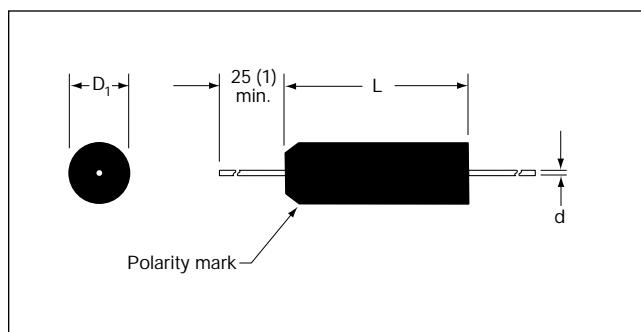
Note 1: Consult factory for other special wire forms.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #075. Visit our website <http://www.avxcorp.com>



Molded Axial Capacitors

TAR Series



HOW TO ORDER

TAR R 335 M 015

(1) (2) (3) (4) (5)

(1) Type

(2) Case Code

(3) Capacitance Code

(4) Capacitance Tolerance:
 $J = \pm 5\%$, $K = \pm 10\%$, $M = \pm 20\%$

(5) Rated DC Voltage

Dimensions: millimeters (inches)

Case Size	L ±0.25 (0.010)	D ₁ ±0.25 (0.010)	d ±0.05 (0.020)	Typical Weight g
Q	6.35 (0.250)	2.16 (0.085)	0.5 (0.020)	0.20
R	7.4 (0.291)	2.5 (0.098)	0.5 (0.020)	0.25
S	8.6 (0.339)	4.3 (0.169)	0.5 (0.020)	0.52
W	10.4 (0.409)	4.3 (0.169)	0.5 (0.020)	0.53

Marking

- Polarity • Capacitance • Date Code
- Tolerance • Voltage

Standard Packaging

	TAPE & REEL 14"	AMMO
Q	3,000	3,000
R	3,000	3,000
S	2,000	2,000
W	2,000	2,000

Capacitance Range (letter denotes case code)

Capacitance μF	Rated Voltage DC (V _R)							
	4V	6.3V	10V	15V	20V	25V	35V	50V
0.1							Q	Q
0.15							Q	Q
0.22							Q	Q
0.33							Q	R
0.47							Q	R
0.68							R	R
1.0							R	S
1.5							R	S
2.2			Q	Q	Q	R	S	S
3.3		Q	Q	R	R	R	S	W
4.7	Q	Q	R	R	R	S	S	W
6.8		R	R	S	S	S	S	W
10	R	R	R	S	S	S	W	
15	R	R	S	S	S	S	W	
22	R	S	S	W	W	W		
33	S	S	W	W				
47		W	W					
68								

Values outside this standard range may be available on request without appropriate release or qualification.

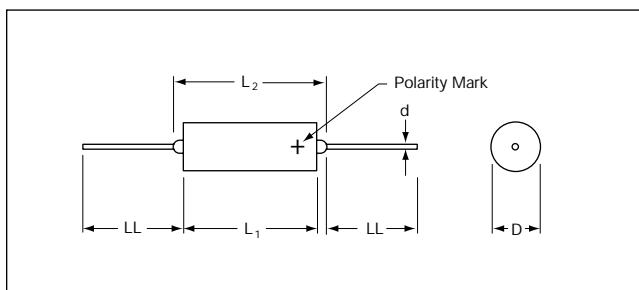
AVX reserves the right to supply capacitors to a tighter specification than that ordered.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #076. Visit our website <http://www.avxcorp.com>



Hermetic Axial Capacitors

TAA Series



Standard Packaging

	TAPE & REEL 14"	AMMO
A	3,500	1,500
B	2,500	1,000
C	500	250
D	400	250

HOW TO ORDER

TAA ① ② ③ ④ ⑤ ⑥ M G

- ① Type
- ② Case Code
- ③ Capacitance Code
- ④ Capacitance Tolerance:
 $J = \pm 5\%$, $K = \pm 10\%$, $M = \pm 20\%$
- ⑤ Rated DC Voltage
- ⑥ TAA Packaging Suffixes:
G=Taped & Reeled
W=AMMO Pack

Dimensions: millimeters (inches)

Case Size	L ₁ max.	L ₂ max.	D max.	Lead Length (LL) min.	d nom.	Weight max. g
A	7.2 (0.283)	10.7 (0.421)	3.6 (0.142)	28 (1.102)	0.5	0.7
B	12.0 (0.472)	15.5 (0.610)	4.8 (0.189)	28 (1.102)	0.5	1.3
C	17.3 (0.681)	20.9 (0.823)	7.4 (0.291)	23 (0.906)	0.6	4.7
D	19.9 (0.783)	23.4 (0.921)	9.0 (0.354)	23 (0.906)	0.6	7.4

Note: The tabulated dimensions are for non-insulated capacitors. Insulated capacitors are standard, dimension L₁ will increase by 0.8mm maximum, and dimension D by 0.2mm maximum.

Capacitance Range (letter denotes case code)

Capacitance μF	Cap Code	Rated Voltage DC							
		6.3V	10V	16V	20V	25V	35V	40V	50V
0.1	104						A	A	A
0.15	154						A	A	A
0.22	224						A	A	A
0.33	334						A	A	A
0.47	474						A	A	A
0.68	684						A	A	A
1.0	105						A	A	A
1.5	155						B	B	B
2.2	225				A	A	B	B	B
3.3	335				A		B	B	B
4.7	475		A	B	B		B	B	B
6.8	685			B	C		B	B	C
10	106		B		B	B	C	C	C
15	156				B	C	C	C	C
22	226				C	C	C	C	D
33	336		B	C	C	C	D	D	
47	476		C	C	C	D	D	D	
68	686			D	D				
100	107		C	D	D				
150	157		D	D					
220	227								
330	337	D							

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #077. Visit our website <http://www.avxcorp.com>

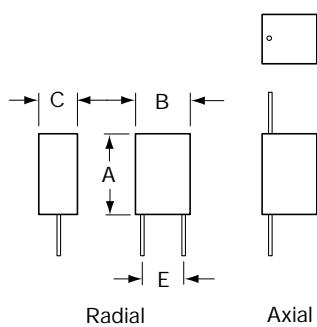


Minitan Capacitors

TMH Series



Figure 1



Case Sizes
X, W, U

Leads – Leads are solder coated pure nickel wire suitable for soldering or welding. Tested in accordance with MIL-STD-202, Method 211, .010 diameter leads withstand a 1-lb. pull and .007 diameter leads an 8-oz. pull. All lead diameters withstand 5 rotations twist.

HOW TO ORDER

TMH W 104 M 020 R*
 ① ② ③ ④ ⑤ ⑥

- ① Type
 ② Case Code
 ③ Capacitance Code

- ④ Tolerance:
 $L=+40/-20\%$, $M=\pm 20\%$,
 $K=\pm 10\%$, $J=\pm 5\%$
 ⑤ Rated DC Voltage
 ⑥ Lead Configuration:

R=Radial, A=Axial

*Note: Other digits will be added by factory to identify specific customer requirements. Contact factory for details.

Standard Packaging
 Bulk (100 pcs.)

Dimensions: millimeters (inches)

Case Size	Applicable Figure	A Max	B Max	C Max	E
X	Figure 1	1.9 (0.075)	1.3 (0.051)	1.1 (0.043)	0.8 ± 0.4 (0.031 ± 0.016)
W	Figure 1	2.5 (0.098)	1.3 (0.051)	1.1 (0.043)	0.8 ± 0.4 (0.031 ± 0.016)
U	Figure 1	3.2 (0.126)	1.8 (0.071)	1.1 (0.043)	1.3 ± 0.4 (0.051 ± 0.016)

Lead Length: All case sizes: Pos. 41.3 ± 3.2 (1.625 ± 0.125)
 Neg. 34.9 ± 3.2 (1.375 ± 0.125)

Lead Diameter: W, X = $.178 \pm .025$ (0.007 ± 0.001);
 U = $.254 \pm .025$ (0.010 ± 0.001)

Maximum Capacitance, μF

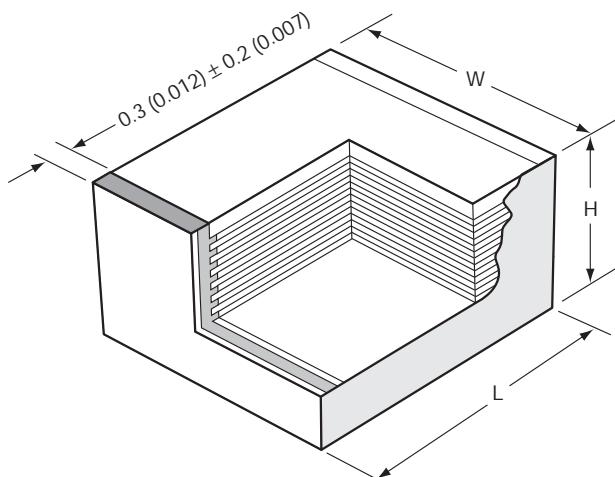
Case Size	2VDC	3VDC	4VDC	6VDC	10VDC	15VDC	20VDC	35VDC	50VDC
X	2.2	—	0.33	0.22	0.15	0.1	0.068	—	—
W	2.2	—	0.33	0.22	0.15	0.1	0.068	—	—
U	10.0	4.7	1.0	—	—	—	0.22	—	—

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #078. Visit our website <http://www.avxcorp.com>



Film Chip Capacitors

AVX



Dimensions: millimeters (inches)

Size Code	01	02	03	04	05	16	17	18
Equivalent Size	1206	1210	1812	2220	2824	4030	5040	6054
Length (L) mm (inches)	3.2 ± 0.3 (0.126 ± 0.012)	3.2 ± 0.3 (0.126 ± 0.012)	4.5 ± 0.5 (0.177 ± 0.020)	5.7 ± 0.5 (0.224 ± 0.020)	7.1 ± 0.5 (0.280 ± 0.020)	10.2 ± 0.6 (0.401 ± 0.024)	12.7 ± 0.6 (0.500 ± 0.024)	15.2 ± 0.6 (0.598 ± 0.024)
Width (W) mm (inches)	1.6 ± 0.3 (0.063 ± 0.012)	2.5 ± 0.3 (0.098 ± 0.012)	3.2 ± 0.5 (0.126 ± 0.020)	5.0 ± 0.5 (0.197 ± 0.020)	6.1 ± 0.5 (0.240 ± 0.020)	7.6 ± 0.8 (0.299 ± 0.031)	10.2 ± 0.8 (0.401 ± 0.031)	13.7 ± 0.8 (0.539 ± 0.031)

Capacitance and Voltage Range: Case Sizes 1206 and 1210

millimeters (inches)

Capacitance	Capacitance Code	DC Rated Voltage (105°C / 125°C)			
		25 V / 19 V		50 V / 38 V	
Size Code	H max	Size Code	H max	Size Code	H max
1 nF	0102	01	1.1 (0.043)	01	1.1 (0.043)
1.5	0152	01	1.1 (0.043)	01	1.1 (0.043)
2.2	0222	01	1.1 (0.043)	01	1.1 (0.043)
3.3	0332	01	1.1 (0.043)	01	1.1 (0.043)
4.7	0472	01	1.1 (0.043)	01	1.1 (0.043)
6.8	0682	01	1.1 (0.043)	01	1.1 (0.043)
10	0103	01	1.3 (0.051)	01	1.3 (0.051)
15	0153	01	1.3 (0.051)	02	1.8 (0.071)
22	0223	01	1.3 (0.051)	02	2.2 (0.087)
33	0333	02	2.2 (0.087)	02	2.2 (0.087)
47	0473	02	1.8 (0.071)		1.8 (0.071)
68	0683	02	2.2 (0.087)		
100	0104	02	2.2 (0.087)		

Capacitance and Voltage Range: Case Sizes 1812 to 6054

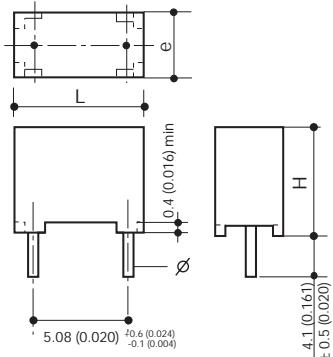
millimeters (inches)

Capacitance	Capacitance Code	DC Rated Voltage (105°C / 125°C)							
		63 V / 47 V		100 V / 75 V		160 V / 120 V		250 V / 187 V	
Size Code	H max	Size Code	H max	Size Code	H max	Size Code	H max	Size Code	H max
1 nF	0102	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)
1.5	0152	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)
2.2	0222	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)
3.3	0332	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)
4.7	0472	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)
6.8	0682	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)
10	0103	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)
15	0153	03	1.5 (0.059)	03	1.5 (0.059)	03	1.5 (0.059)	03	2.5 (0.098)
22	0223	03	1.5 (0.059)	03	1.5 (0.059)	03	2.0 (0.079)	04	2.0 (0.079)
33	0333	03	1.5 (0.059)	03	1.5 (0.059)	03	2.5 (0.098)	04	2.0 (0.079)
47	0473	03	2.0 (0.079)	03	2.0 (0.079)	04	2.1 (0.083)	04	3.0 (0.118)
68	0683	03	2.0 (0.079)	03	3.0 (0.118)	04	3.0 (0.118)	04	4.0 (0.157)
100	0104	03	2.0 (0.079)	03	3.0 (0.118)	04	3.4 (0.134)	05	3.6 (0.142)
150	0154	03	2.5 (0.098)	04	3.0 (0.118)	05	5.1 (0.201)	05	5.1 (0.201)
220	0224	03	3.0 (0.118)	04	4.5 (0.177)	05	5.0 (0.197)	16	3.8 (0.150)
330	0334	04	3.4 (0.134)	04	4.5 (0.177)	16	3.8 (0.150)	16	5.8 (0.228)
470	0474	04	4.0 (0.157)	05	5.4 (0.213)	17	3.8 (0.150)	17	4.6 (0.181)
680	0684	04	4.5 (0.177)	05	5.1 (0.201)	17	4.6 (0.181)	18	4.4 (0.173)
1 μF	0105	05	5.0 (0.197)	16	4.8 (0.189)	18	4.4 (0.173)	18	5.7 (0.224)
1.5	0155	17	4.6 (0.181)	17	4.6 (0.181)	18	6.2 (0.244)		
2.2	0225	17	5.5 (0.217)	17	5.5 (0.217)				
3.3	0335	18	6.2 (0.244)	18	6.2 (0.244)				
4.7	0475	18	7.0 (0.276)	18	7.0 (0.276)				

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #079. Visit our website <http://www.avxcorp.com>

AVX

Metallized Polyester BF-Film Dielectric Capacitors



Dimensions: millimeters (inches)

Case	L max.	H max.	e max.	$\phi \pm 0.02$	Observations
01	7.5 (0.295)	6.5 (0.256)	2.5 (0.098)	0.5 (0.020)	$1nF \leq C_R \leq 220nF$
02	7.5 (0.295)	8.0 (0.315)	3.2 (0.126)	0.5 (0.020)	$12nF \leq C_R \leq 330nF$
05	7.5 (0.295)	12.0 (0.472)	6.0 (0.236)	0.5 (0.020)	$560nF \leq C_R \leq 2.2\mu F$
06	7.5 (0.295)	9.6 (0.378)	6.0 (0.236)	0.5 (0.020)	$47nF / 400V$
07	7.5 (0.295)	8.0 (0.315)	5.0 (0.197)	0.5 (0.020)	$27nF \leq C_R \leq 1\mu F$

BF 01/02/05/06/07

Capacitance Values (C_R) and
Nominal Voltages (V_R) vs Case Size

Capacitance Range (C_R)	BF			
	$V_{R-}/V_{R\sim}$			
	63/40	100/63	250/160	400/200
1,000 pF	BF01	BF01	BF01	BF01
1,200	BF01	BF01	BF01	BF01
1,500	BF01	BF01	BF01	BF01
1,800	BF01	BF01	BF01	BF01
2,200 pF	BF01	BF01	BF01	BF01
2,700	BF01	BF01	BF01	BF01
3,300	BF01	BF01	BF01	BF01
3,900	BF01	BF01	BF01	BF01
4,700 pF	BF01	BF01	BF01	BF01
5,600	BF01	BF01	BF01	BF01
6,800	BF01	BF01	BF01	BF01
8,200	BF01	BF01	BF01	BF01
10,000 pF	BF01	BF01	BF01	BF01
12,000	BF01	BF01	BF02	
15,000	BF01	BF01	BF02	
18,000	BF01	BF01	BF02	
22,000	BF01	BF01	BF02	
27,000	BF01	BF01	BF07	
33,000	BF01	BF01	BF02	
39,000	BF01	BF01	BF07	
47,000 pF	BF01	BF01	BF02	BF06
56,000	BF01	BF01	BF07	
68,000	BF01	BF01	BF07	
82,000	BF01	BF01	BF07	
100 nF	BF01	BF01	BF07	
120	BF01	BF01		
150	BF01	BF01		
180	BF01	BF07		
220 nF	BF01	BF07		
270	BF02	BF07		
330	BF02	BF07		
390	BF07/BF02*	BF07		
470 nF	BF07/BF02*	BF07		
560	BF07	BF05		
680	BF07	BF05		
820	BF07	BF05		
1 μF	BF07	BF05		
1.5 μF	BF05			
2.2 μF	BF05**			

* Upon request

** Upon request & only available 50 V (V_R)

HOW TO ORDER

BF 01 4 D 0104 K --

① ② ③ ④ ⑤ ⑥

① Type and Size: *

BF (CPM-83): Std.

BH (CPM-N): High Performance

② Dielectric Class: 4 = PET

③ Voltage

④ Capacitance Value

⑤ Tolerance

⑥ Suffix

*STANDARDIZATION

BF (CPM-83):

Generic specifications: CEI 384-1/CECC 30000/UTE 83100

Sectional specifications:

CEI 384-2/CECC 30400/UTE 83151

Complies with special specification:

CECC 30401-063

On the LNZ list:

Complies with type CPM-N RAQ2 production, equivalent AQAP-4 of NATO

Climate Category:

-55/125/56

BH (CPM-N):

Generic specifications: CEI 384-1/CECC 30000/UTE 83100

Sectional specifications:

CEI 384-2/CECC 30400/UTE 83151

On the LNZ list:

Complies with type CPM-N RAQ2 production, equivalent AQAP-4 of NATO

Climate Category:

-55/100/56

BH 01/02/05/06/07

Capacitance Values (C_R) and
Nominal Voltages (V_R) vs Case Size

Capacitance Range (C_R)	BH			
	$V_{R-}/V_{R\sim}$			
	63/40	100/63	250/160	400/200
1,000 pF	BH01	BH01	BH01	BH01
1,200	BH01	BH01	BH01	BH01
1,500	BH01	BH01	BH01	BH01
1,800	BH01	BH01	BH01	BH01
2,200 pF	BH01	BH01	BH01	BH01
2,700	BH01	BH01	BH01	BH01
3,300	BH01	BH01	BH01	BH01
3,900	BH01	BH01	BH01	BH01
4,700 pF	BH01	BH01	BH01	BH01
5,600	BH01	BH01	BH01	BH02
6,800	BH01	BH01	BH01	BH02
8,200	BH01	BH01	BH01	BH07
10,000 pF	BH01	BH01	BH01	BH07
12,000	BH01	BH01	BH01	BH07
15,000	BH01	BH01	BH01	BH07
18,000	BH01	BH01	BH01	BH07
22,000	BH01	BH01	BH02	BH07
27,000	BH01	BH01	BH02	BH07
33,000	BH01	BH01	BH02	BH07
39,000	BH01	BH01	BH02	BH07
47,000 pF	BH01	BH01	BH07	BH05
56,000	BH01	BH01	BH07	BH05
68,000	BH01	BH01	BH07	BH06/BH05*
82,000	BH01	BH01	BH07	BH06/BH05*
100 nF	BH01	BH01	BH01	BH06/BH05*
120	BH01	BH01	BH01	BH06/BH05*
150	BH01	BH01	BH01	BH06/BH05*
180	BH01	BH07	BH02/BH07*	BH06/BH05*
220 nF	BH01/BH02*	BH02	BH07	
270	BH02	BH02	BH07	
330	BH02	BH07	BH07	
390	BH07/BH02*	BH07	BH07	
470 nF	BH07/BF02*	BF07	BH05	
560	BF07	BF05	BH05	
680	BF07	BF05	BH05	
820	BF07	BF05	BH05	
1 μF	BH07/BH06*	BF05	BH05	
1.5 μF	BF05			
2.2 μF	BF05**			

** ($V_R = 50$ V)

* Upon request

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
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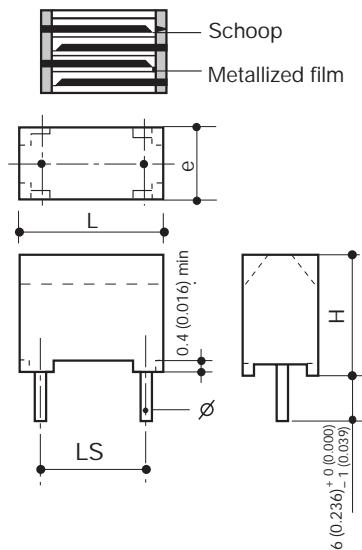
Metallized Polyester BT-Film Dielectric Capacitors



BT 07/10/15/22/27

CPM-85 — 7.5/10/15/22.5/27.5 Radial Leads

63/100/160/250/400/630 V-



Nominal Voltage (V_R) and Capacitance Values (C_R)
Depending on the Dimensions

S i z e	C a s e	DIMENSIONS: millimeters (inches)					Range of Capacitance (C_R min. ... max.)					
							BT					
							V_{R-}/V_{R-}					
07	C	Max L	Max H	Max e	Ø +10% -0.05	LS ±0.4	63/40	100/63	160/80	250/160	400/200	630/220
		9.25 (0.364)	8.0 (0.315)	3.25 (0.128)	0.6 (0.024)	7.5 (0.295)	68 nF ... 220 nF	22 nF ... 150 nF	-	6.8 nF ... 47 nF	1 nF ... 22 nF	1 nF ... 3.3 nF
		10.1 (0.398)	10.0 (0.394)	5.0 (0.197)	0.6 (0.024)		330 nF/470 nF	220 nF/330 nF	-	68 nF ... 100 nF	-	4.7 nF/6.8 nF
		10.1 (0.398)	11.0 (0.433)	5.0 (0.197)	0.6 (0.024)		680 nF	-	-	-	-	10 nF
		10.1 (0.398)	12.0 (0.472)	6.0 (0.236)	0.6 (0.024)		1µF	-	-	150 nF	33 nF ... 47 nF	15 nF
10	EO 4	12.5 (0.492)	9.0 (0.354)	4.0 (0.157)	0.6 (0.024)	10.0 (0.394)	220 nF ... 470 nF	100 nF ... 220 nF	100 nF ... 220 nF	33 nF ... 100 nF	6.8 nF ... 33 nF	-
		12.5 (0.492)	10.0 (0.394)	5.0 (0.197)	0.6 (0.024)		-	-	-	-	47 nF	4.7 nF/22 nF
15	IO	17.5 (0.689)	10.5 (0.413)	5.0 (0.197)	0.8 (0.031)	15.0 (0.591)	680 nF ... 1 µF	150 nF ... 1 µF	330 nF/470 nF	68 nF ... 220 nF	47 nF/68 nF	33 nF
		17.5 (0.689)	13.5 (0.531)	5.0 (0.197)	0.8 (0.031)		-	-	-	-	100 nF	-
		17.5 (0.689)	12.0 (0.472)	6.0 (0.236)	0.8 (0.031)		2.2 µF	-	680 nF	330 nF	-	-
		17.5 (0.689)	13.5 (0.531)	6.25 (0.246)	0.8 (0.031)		-	-	1 µF	390 nF	150 nF	47 nF
		17.5 (0.689)	14.5 (0.571)	8.5 (0.335)	0.8 (0.031)		-	-	2.2 µF	-	-	68 nF
22	11	26.25 (1.033)	15.0 (0.591)	7.5 (0.295)	0.8 (0.031)	22.5 (0.886)	-	1.5 µF	-	470 nF/680 nF	220 nF	100 nF
		26.25 (1.033)	17.5 (0.689)	7.5 (0.295)	0.8 (0.031)		3.3 µF	2.2 µF	-	-	330 nF	150 nF
		26.25 (1.033)	19.5 (0.768)	10.0 (0.394)	0.8 (0.031)		4.7 µF/6.8 µF	3.3 µF	-	1 µF/1.5 µF	470 nF	220 nF
27	16 17* 18* 19*	31.25 (1.230)	19.5 (0.768)	10.0 (0.394)	0.8 (0.031)	27.5 (1.083)	6.8 µF	4.7 µF	3.3 µF	1.5 µF	470 nF 680 nF	330 nF
		31.25 (1.230)	22.5 (0.886)	12.5 (0.492)	0.8 (0.031)		10 µF	6.8 µF	-	2.2 µF	1 µF	470 nF
		31.25 (1.230)	26.0 (1.024)	15.0 (0.591)	0.8 (0.031)		15 µF	10 µF	-	3.3 µF	1.5 µF	680 nF
		31.25 (1.230)	30.0 (1.181)	17.5 (0.689)	0.8 (0.031)		22 µF	-	-	4.7 µF	2.2 µF	1 µF

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HOW TO ORDER

BT 10 4 G 0104 K --
 ① ② ③ ④ ⑤ ⑥

① Type and Size

② Dielectric Class: 4 = PET

③ Voltage

④ Capacitance Value

⑤ Tolerance

⑥ Suffix

Tape and Reel

STANDARDIZATION

Generic specifications:

CEI 384-1/CECC 30000/UTE 83100

Sectional specifications:

CEI 384-2/CECC 30400/UTE 83151

On the LNZ list:

Complies with type CPM85 – CPM-R

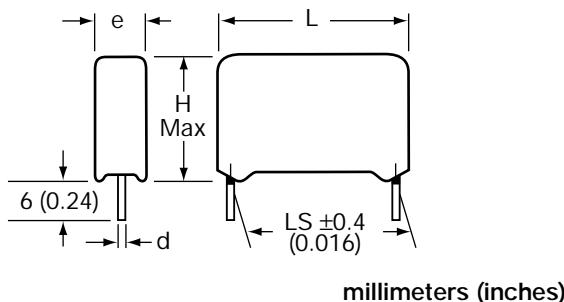
Metallized Polyester BG-Film Dielectric Capacitors



BG 07/10/15/22/27

CPM-85 – 7.5/10/15/22.5/27.5

Boxed Metallized Polyester Capacitor



Lead Spacing (LS)	Diameter d
7.5 (0.295)	0.6 (0.024)
10 (0.394)	0.6 ⁽¹⁾ (0.024) / 0.8 (0.031)
> 10 (0.394)	0.8 (0.031)

(1): 0.6 (0.024) for capacitors with e ≤ 6 (0.024)

Dimensions: millimeters (inches)

Capacitance	63 V DC / 40 V AC				100 V DC / 63 V AC				250 V DC / 160 V AC			
	e	H	L	LS	e	H	L	LS	e	H	L	LS
0.01 µF												
0.015 µF												
0.022 µF												
0.022 µF					2.5 (0.098)	7.0 (0.276)	10.0 (0.394)	7.5 (0.295)	3.0 (0.118)	8.6 (0.339)	10.0 (0.394)	7.5 (0.295)
0.033 µF												
0.033 µF					3.0 (0.118)	8.6 (0.339)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	10.0 (0.394)	7.5 (0.295)
0.047 µF												
0.047 µF												
0.068 µF					3.0 (0.118)	8.6 (0.339)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	10.0 (0.394)	7.5 (0.295)
0.068 µF												
0.1 µF					4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)
0.1 µF												
0.15 µF					4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	5.0 (0.197)	11.0 (0.433)	10.0 (0.394)	7.5 (0.295)
0.15 µF												
0.15 µF	2.5 (0.098)	7.0 (0.276)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)
0.22 µF												
0.22 µF	4.0 (0.157)	9.0 (0.354)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	5.0 (0.197)	11.0 (0.433)	10.0 (0.394)	7.5 (0.295)
0.33 µF												
0.33 µF	4.0 (0.157)	9.0 (0.354)	10.0 (0.394)	7.5 (0.295)	5.0 (0.197)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	6.0 (0.236)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)
0.33 µF	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)
0.47 µF												
0.47 µF	5.0 (0.197)	11.0 (0.433)	10.0 (0.394)	7.5 (0.295)	6.0 (0.236)	12.0 (0.472)	10.4 (0.409)	7.5 (0.295)				
0.47 µF	5.0 (0.197)	11.0 (0.433)	10.0 (0.394)	7.5 (0.295)	5.0 (0.197)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)
0.47 µF	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	5.0 (0.197)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)
0.68 µF												
0.68 µF	5.0 (0.197)	11.0 (0.433)	10.0 (0.394)	7.5 (0.295)								
0.68 µF	5.0 (0.197)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	6.0 (0.236)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	7.0 (0.276)	12.5 (0.492)	18.0 (0.709)	15.0 (0.591)
0.68 µF	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)
0.68 µF	5.0 (0.197)	11.0 (0.433)	10.0 (0.394)	7.5 (0.295)								
1 µF	6.0 (0.236)	12.0 (0.472)	10.4 (0.409)	7.5 (0.295)								
1 µF	5.0 (0.197)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	6.0 (0.236)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	9.0 (0.354)	14.5 (0.571)	18.0 (0.709)	15.0 (0.591)
1 µF	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)
1.5 µF	6.0 (0.236)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	7.0 (0.276)	12.5 (0.492)	18.0 (0.709)	15.0 (0.591)	8.5 (0.335)	16.5 (0.650)	25.5 (1.004)	22.5 (0.886)
1.5 µF	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)
2.2 µF	7.0 (0.276)	14.0 (0.551)	13.0 (0.512)	10.0 (0.394)	7.0 (0.276)	12.5 (0.492)	18.0 (0.709)	15.0 (0.591)	10.5 (0.413)	19.5 (0.768)	25.5 (1.004)	22.5 (0.886)
2.2 µF	7.0 (0.276)	12.5 (0.492)	18.0 (0.709)	15.0 (0.591)	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)
3.3 µF	7.0 (0.276)	12.5 (0.492)	18.0 (0.709)	15.0 (0.591)	9.0 (0.354)	14.5 (0.571)	18.0 (0.709)	15.0 (0.591)				
3.3 µF	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)	8.5 (0.335)	16.5 (0.650)	25.5 (1.004)	22.5 (0.886)	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)
4.7 µF	9.0 (0.354)	14.5 (0.571)	18.0 (0.709)	15.0 (0.591)	8.5 (0.335)	16.5 (0.650)	25.5 (1.004)	22.5 (0.886)				
4.7 µF	8.5 (0.335)	16.5 (0.650)	25.5 (1.004)	22.5 (0.886)	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)				
6.8 µF												
6.8 µF	8.5 (0.335)	16.5 (0.650)	25.5 (1.004)	22.5 (0.886)	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)				
10 µF	10.5 (0.413)	19.5 (0.768)	25.5 (1.004)	22.5 (0.886)								
10 µF	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)				
15 µF	14.0 (0.551)	25.0 (0.984)	32.0 (1.260)	27.5 (1.083)								
22 µF	14.0 (0.551)	25.0 (0.984)	32.0 (1.260)	27.5 (1.083)								

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BG 10 4 G 0104 K --

① ② ③ ④ ⑤ ⑥

STANDARDIZATION

Generic specifications:
CEI 384-1/CECC 30000/UTE 83100

Sectional specifications:
CEI 384-2/CECC 30400/UTE 83151

On the LNZ list:
Complies with type CPM85 – CPM-R

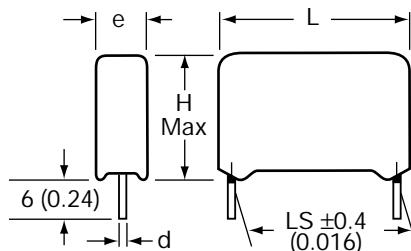
Metallized Polyester Film Dielectric Capacitors



BG 07/10/15/22/27

CPM-85 – 7.5/10/15/22.5/27.5

Boxed Metallized Polyester Capacitor

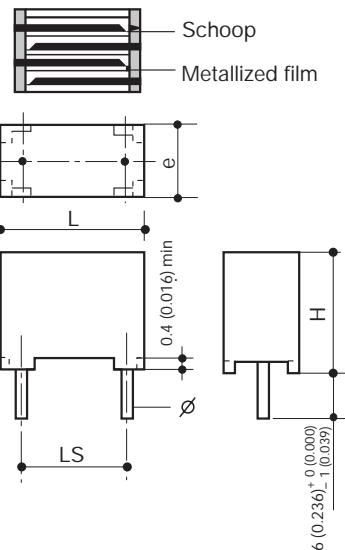


Dimensions: millimeters (inches)

Capacitance	400 V DC / 200 V AC				630 V DC / 220 V AC				1000 V DC / 250 V AC			
	e	H	L	LS	e	H	L	LS	e	H	L	LS
1 nF					2.5 (0.098)	7.0 (0.276)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)
1.5 nF					2.5 (0.098)	7.0 (0.276)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)
2.2 nF												
2.2 nF					3.0 (0.118)	8.6 (0.339)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)
3.3 nF					3.0 (0.118)	8.6 (0.339)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)
3.3 nF					3.0 (0.118)	8.6 (0.339)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)
4.7 nF					4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)				
4.7 nF	2.5 (0.098)	7.0 (0.276)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)
6.8 nF					4.0 (0.157)	9.0 (0.354)	10.0 (0.394)	7.5 (0.295)				
6.8 nF	3.0 (0.118)	8.6 (0.339)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	6.0 (0.236)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)
0.01 µF					5.0 (0.197)	11.0 (0.433)	10.0 (0.394)	7.5 (0.295)				
0.01 µF	4.0 (0.157)	9.0 (0.354)	10.0 (0.394)	7.5 (0.295)	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)
0.015 µF	4.0 (0.157)	9.0 (0.354)	10.0 (0.394)	7.5 (0.295)	6.0 (0.236)	12.0 (0.472)	10.4 (0.409)	7.5 (0.295)				
0.015 µF	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	5.0 (0.197)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)
0.022 µF	5.0 (0.197)	11.0 (0.433)	10.0 (0.394)	7.5 (0.295)	5.0 (0.197)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)				
0.022 µF	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	5.0 (0.197)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	7.0 (0.276)	12.5 (0.492)	18.0 (0.709)	15.0 (0.591)
0.033 µF	5.0 (0.197)	11.0 (0.433)	10.0 (0.394)	7.5 (0.295)	6.0 (0.236)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)				
0.033 µF	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)
0.047 µF	6.0 (0.236)	12.0 (0.472)	10.4 (0.409)	7.5 (0.295)								
0.047 µF	4.0 (0.157)	9.0 (0.354)	13.0 (0.512)	10.0 (0.394)	6.0 (0.236)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)				
0.047 µF	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)
0.068 µF	6.0 (0.236)	12.0 (0.472)	10.4 (0.409)	7.5 (0.295)								
0.068 µF	5.0 (0.197)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	7.0 (0.276)	14.0 (0.551)	13.0 (0.512)	10.0 (0.394)				
0.068 µF	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)
0.1 µF												
0.1 µF	6.0 (0.236)	11.0 (0.433)	13.0 (0.512)	10.0 (0.394)	7.0 (0.276)	12.5 (0.492)	18.0 (0.709)	15.0 (0.591)				
0.1 µF	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)	8.5 (0.335)	16.5 (0.650)	25.5 (1.004)	22.5 (0.886)
0.15 µF												
0.15 µF	7.0 (0.276)	14.0 (0.551)	13.0 (0.512)	10.0 (0.394)	9.0 (0.354)	14.5 (0.571)	18.0 (0.709)	15.0 (0.591)				
0.15 µF	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)
0.22 µF												
0.22 µF	5.5 (0.216)	10.5 (0.413)	18.0 (0.709)	15.0 (0.591)	9.0 (0.354)	14.5 (0.571)	18.0 (0.709)	15.0 (0.591)				
0.22 µF	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)
0.33 µF												
0.33 µF	7.0 (0.276)	12.5 (0.492)	18.0 (0.709)	15.0 (0.591)	10.5 (0.413)	19.5 (0.768)	25.5 (1.004)	22.5 (0.886)				
0.33 µF	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)	14.0 (0.551)	25.0 (0.984)	32.0 (1.260)	27.5 (1.083)
0.47 µF												
0.47 µF	9.0 (0.354)	14.5 (0.571)	18.0 (0.709)	15.0 (0.591)								
0.47 µF	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)	14.0 (0.551)	25.0 (0.984)	32.0 (1.260)	27.5 (1.083)
0.68 µF												
0.68 µF	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)								
0.68 µF	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)	14.0 (0.551)	25.0 (0.984)	32.0 (1.260)	27.5 (1.083)				
1 µF												
1 µF	7.0 (0.276)	15.0 (0.591)	25.5 (1.004)	22.5 (0.886)								
1 µF	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)	14.0 (0.551)	25.0 (0.984)	32.0 (1.260)	27.5 (1.083)				
1.5 µF												
1.5 µF	10.5 (0.413)	19.5 (0.768)	25.5 (1.004)	22.5 (0.886)								
1.5 µF	11.0 (0.433)	20.0 (0.787)	32.0 (1.260)	27.5 (1.083)								
2.2 µF												
2.2 µF	14.0 (0.551)	25.0 (0.984)	32.0 (1.260)	27.5 (1.083)								

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
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Metallized Polyester BC/BD/BO-Film Dielectric Capacitors



BC/BD 15

15 Radial Leads - 250V -

Nominal Voltage (V_R) and Capacitance Values (C_R)

Depending on the Dimensions

BC/BD 15-250V STANDARDIZATION

Generic specifications:
CEI 384-1/CECC 30000/UTE 83100

Sectional specifications:
CEI 384-2/CECC 30400/UTE 83151

BO 07/10/15/27 CPM-50 — 7.5/10/15/27.5 40/63/160/250/400V STANDARDIZATION

Generic specifications:
CEI 384-1/CECC 30000/UTE 83100

Sectional specifications:
CEI 384-2/CECC 30400/UTE 83151

On the LNZ 44-04 list:
Complies with type CPM50

On the GAM-T1 list:
ARIANE qualified

HOW TO ORDER

BC 15 4 G 0105 K --

① ② ③ ④ ⑤ ⑥

① Type and Size: BC/BD/BO

② Dielectric Class: 4 = PET

③ Voltage

④ Capacitance Value

⑤ Tolerance

⑥ Suffix

Tape and Reel

Type	Case	C_R (μF)	L max	h max	e max	LS ± 0.4	millimeters (inches)
BC 15	i0	0.47	17.5 (0.689)	12.0 (0.472)	6.0 (0.236)	15.0 (0.591)	0.8 (0.031)
	8	0.68	17.5 (0.689)	13.5 (0.531)	6.25 (0.246)	15.0 (0.591)	0.8 (0.031)
	9	0.80	17.5 (0.689)	14.5 (0.571)	8.5 (0.335)	15.0 (0.591)	0.8 (0.031)
	9	0.82	17.5 (0.689)	14.5 (0.571)	8.5 (0.335)	15.0 (0.591)	0.8 (0.031)
	9	1.0	17.5 (0.689)	14.5 (0.571)	8.5 (0.335)	15.0 (0.591)	0.8 (0.031)
	9	1.5	17.5 (0.689)	14.5 (0.571)	8.5 (0.335)	15.0 (0.591)	0.8 (0.031)
	9	2.2	17.5 (0.689)	14.5 (0.571)	8.5 (0.335)	15.0 (0.591)	0.8 (0.031)
BD 15	8	0.80	17.5 (0.689)	13.5 (0.531)	6.25 (0.246)	15.0 (0.591)	0.8 (0.031)
	8	0.82	17.5 (0.689)	13.5 (0.531)	6.25 (0.246)	15.0 (0.591)	0.8 (0.031)
	8	1.0	17.5 (0.689)	13.5 (0.531)	6.25 (0.246)	15.0 (0.591)	0.8 (0.031)

BO 07/10/15/27

CPM-50 – 7.5/10/15/27.5 Radial Leads 40/63/160/250/400 V -

Nominal Voltage (V_R) and Capacitance Values (C_R)

Depending on the Dimensions

Size	Case	DIMENSIONS: millimeters (inches)					Range of Capacitance (C_R min. ... max.)				
		Max L	Max H	Max e	\emptyset +10% -0.05	LS ± 0.4	BO				
							V_{R_1}/V_{R_2}				
							40/25	63/40	160/100	250/180	400/200
07	2	10.1 (0.398)	10.0 (0.394)	5.0 (0.197)	0.6 (0.024)	7.5 (0.295)	-	-	-	4.7 nF/8.2 nF	1 nF ... 3.3 nF
10	4	12.5 (0.492)	10.0 (0.394)	5.0 (0.197)	0.6 (0.024)	10.0 (0.394)	68 nF ... 220 nF	33 nF ... 100 nF	10 nF ... 47 nF	10 nF ... 22 nF	4.7 nF ... 10 nF
15	6	17.5 (0.689)	10.5 (0.413)	5.0 (0.197)	0.8 (0.031)	15.0 (0.591)	330 nF/470 nF	150 nF/220 nF	68 nF ... 150 nF	33 nF/47 nF	15 nF/22 nF
	7	17.5 (0.689)	13.5 (0.531)	5.0 (0.197)	0.8 (0.031)		680 nF	330 nF	220 nF	68 nF	33 nF
	8	17.5 (0.689)	13.5 (0.531)	6.25 (0.246)	0.8 (0.031)		1 μF	470 nF	-	100 nF	47 nF
	9	17.5 (0.689)	14.5 (0.571)	8.5 (0.335)	0.8 (0.031)		1.5 μF	680 nF	330 nF	150 nF	68 nF
	10	17.5 (0.689)	16.5 (0.650)	10.0 (0.394)	0.8 (0.031)		2.2 μF	1 μF	470 nF	220 nF	100 nF
27	14	31.25 (1.230)	15.0 (0.591)	7.5 (0.295)	0.8 (0.031)	27.5 (1.083)	3.3 μF	1.5 μF	680 nF/1 μF	330 nF	330 nF
	15	31.25 (1.230)	17.5 (0.689)	8.75 (0.344)	0.8 (0.031)		4.7 μF	2.2 μF	1.5 μF /2.2 μF	470 nF	220 nF
	16	31.25 (1.230)	19.5 (0.768)	10.0 (0.394)	0.8 (0.031)		6.8 μF	3.3 μF	-	680 nF	330 nF
	17*	31.25 (1.230)	22.5 (0.886)	12.5 (0.492)	0.8 (0.031)		10 μF	4.7 μF	-	1 μF	470 nF
	18*	31.25 (1.230)	26.0 (1.024)	15.0 (0.591)	0.8 (0.031)		15 μF	6.8 μF	3.3 μF	1.5 μF	680 nF
	19*	31.25 (1.230)	30.0 (1.181)	17.5 (0.689)	0.8 (0.031)		22 μF	10 μF	4.7 μF /6.8 μF	2.2 μF	1 μF

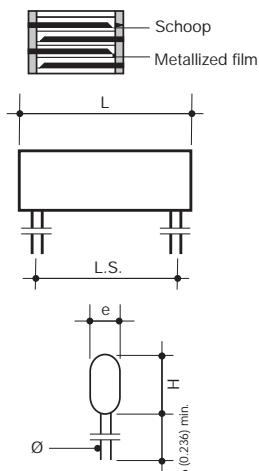
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #084. Visit our website <http://www.avxcorp.com>

Metallized Polyester S4-Film Dielectric Capacitors



S4 07/10/15/27

**CPM-13 — 7.62/10.16/15.24/27.94 Radial Leads
63/160/250/400 V-**



STANDARDIZATION

Generic specifications:

Sectional specifications:
CEI 384-2/CECC 30400/UTE 83151

On the LNZ 44-04 list:
Complies with type CPM13
On the GAM-T1 list.

HOW TO ORDER

S4 15 4 G 0104 K --

- ① Type and Size
 - ② Dielectric Class: 4 = PET
 - ③ Voltage
 - ④ Capacitance Value
 - ⑤ Tolerance
 - ⑥ Suffix

Tape and Reel

Nominal Voltage (V_R) and Capacitance Values (C_R) Depending on the Dimensions

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #085. Visit our website <http://www.avxcorp.com>

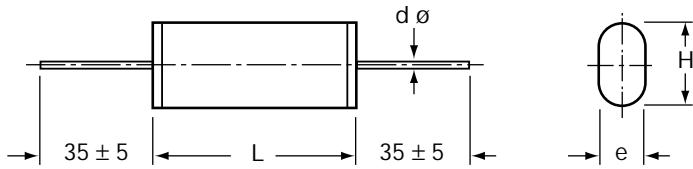


Metallized Polyester SH-Film Dielectric Capacitors



SH 13/18/25/30/40

CPM-8 – Axial Leads 63/100/250/400/630/1000 V-



STANDARDIZATION

Generic specifications:
CEI 384-1/CECC 30000/UTE 83100

Sectional specifications:
CEI 384-2/CECC 30400/UTE 83151

On the LNZ 44-04 list:
Complies with type CPM8

HOW TO ORDER

SH 15 4 G 0104 K --

① ② ③ ④ ⑤ ⑥

① Type and Size

② Dielectric Class: 4 = PET

③ Voltage

④ Capacitance Value

⑤ Tolerance

⑥ Suffix

Tape and Reel

Dimensions: millimeters (inches)

Capacitance	63 V DC / 40 V AC				100 V DC / 63 V AC				250 V DC / 160 V AC			
	Size Code	e	H	L	Size Code	e	H	L	Size Code	e	H	L
0.01 µF									13	4.0 (0.157)	7.0 (0.276)	13.0 (0.512)
0.015 µF									13	4.0 (0.157)	7.0 (0.276)	13.0 (0.512)
0.022 µF					13	4.0 (0.157)	7.0 (0.276)	13.0 (0.512)	13	4.0 (0.157)	8.0 (0.315)	13.0 (0.512)
0.033 µF					13	4.0 (0.157)	7.0 (0.276)	13.0 (0.512)	13	4.0 (0.157)	8.0 (0.315)	13.0 (0.512)
0.047 µF					13	4.0 (0.157)	7.0 (0.276)	13.0 (0.512)	13	5.0 (0.197)	8.0 (0.315)	13.0 (0.512)
0.068 µF					13	4.0 (0.157)	7.0 (0.276)	13.0 (0.512)	13	5.0 (0.197)	8.0 (0.315)	13.0 (0.512)
0.1 µF					13	4.0 (0.157)	7.0 (0.276)	13.0 (0.512)	18	4.0 (0.157)	8.0 (0.315)	18.0 (0.709)
0.15 µF					13	4.0 (0.157)	7.0 (0.276)	13.0 (0.512)	18	5.0 (0.197)	9.0 (0.354)	18.0 (0.709)
0.22 µF	13	4.0 (0.157)	7.0 (0.276)	13.0 (0.512)	13	5.0 (0.197)	8.0 (0.315)	13.0 (0.512)	18	5.0 (0.197)	10.0 (0.394)	18.0 (0.709)
0.33 µF	13	4.0 (0.157)	7.0 (0.276)	13.0 (0.512)	18	5.0 (0.197)	8.0 (0.315)	18.0 (0.709)	18	6.0 (0.236)	11.0 (0.433)	18.0 (0.709)
0.47 µF	13	5.0 (0.197)	9.0 (0.354)	13.0 (0.512)	18	5.0 (0.197)	9.0 (0.354)	18.0 (0.709)	25	5.0 (0.197)	12.0 (0.472)	25.0 (0.984)
0.68 µF	13	6.0 (0.236)	9.0 (0.354)	13.0 (0.512)	18	6.0 (0.236)	9.0 (0.354)	18.0 (0.709)	25	6.0 (0.236)	13.0 (0.512)	25.0 (0.984)
1 µF	13	6.0 (0.236)	9.0 (0.354)	13.0 (0.512)	13	8.0 (0.315)	11.0 (0.433)	13.0 (0.512)	18	9.0 (0.354)	14.0 (0.551)	18.0 (0.709)
1 µF	18	5.0 (0.197)	10.0 (0.394)	18.0 (0.709)	18	7.0 (0.276)	11.0 (0.433)	18.0 (0.709)	25	7.0 (0.276)	15.0 (0.591)	25.0 (0.984)
1.5 µF	13	7.0 (0.276)	10.0 (0.394)	13.0 (0.512)	18	9.0 (0.354)	13.0 (0.512)	18.0 (0.709)	25	9.0 (0.354)	15.0 (0.591)	25.0 (0.984)
1.5 µF	18	6.5 (0.260)	11.0 (0.433)	18.0 (0.709)	25	6.0 (0.236)	14.0 (0.551)	25.0 (0.984)	30	8.0 (0.315)	16.0 (0.630)	30.0 (1.181)
2.2 µF	13	9.0 (0.354)	12.0 (0.472)	13.0 (0.512)	18	11.0 (0.433)	15.0 (0.591)	18.0 (0.709)	25	9.0 (0.354)	17.0 (0.669)	25.0 (0.984)
2.2 µF	18	7.0 (0.276)	12.0 (0.472)	18.0 (0.709)	25	7.0 (0.276)	16.0 (0.630)	25.0 (0.984)	30	10.0 (0.394)	18.0 (0.709)	30.0 (1.181)
3.3 µF	18	8.5 (0.335)	13.5 (0.531)	18.0 (0.709)	18	13.0 (0.512)	17.0 (0.669)	18.0 (0.709)	25	15.0 (0.591)	19.0 (0.748)	25.0 (0.984)
3.3 µF	25	6.0 (0.236)	14.0 (0.551)	25.0 (0.984)	25	9.0 (0.354)	16.0 (0.630)	25.0 (0.984)	30	12.0 (0.472)	20.0 (0.787)	30.0 (1.181)
4.7 µF	18	10.0 (0.394)	15.0 (0.591)	18.0 (0.709)	25	12.0 (0.472)	18.0 (0.709)	25.0 (0.984)	30	16.0 (0.630)	22.0 (0.866)	30.0 (1.181)
4.7 µF	25	7.0 (0.276)	15.0 (0.591)	25.0 (0.984)	30	10.0 (0.394)	18.0 (0.709)	30.0 (1.181)	40	12.0 (0.472)	27.0 (1.063)	40.0 (1.575)
6.8 µF	18	14.0 (0.551)	19.0 (0.748)	18.0 (0.709)	25	15.0 (0.591)	21.0 (0.827)	25.0 (0.984)	30	18.0 (0.709)	24.0 (0.945)	30.0 (1.181)
6.8 µF	25	8.0 (0.315)	16.0 (0.630)	25.0 (0.984)	30	13.0 (0.512)	21.0 (0.827)	30.0 (1.181)	40	11.0 (0.433)	21.0 (0.827)	40.0 (1.575)
10 µF	25	11.0 (0.433)	18.0 (0.709)	25.0 (0.984)	25	18.0 (0.709)	25.0 (0.984)	25.0 (0.984)	30	21.0 (0.827)	26.0 (1.024)	30.0 (1.181)
10 µF	30	9.0 (0.354)	17.0 (0.669)	30.0 (1.181)	30	14.0 (0.551)	26.0 (1.024)	30.0 (1.181)	40	14.0 (0.551)	23.0 (0.906)	40.0 (1.575)
15 µF		upon request				upon request						
22 µF		upon request				upon request						

Capacitance	400 V DC / 200 V AC				630 V DC / 220 V AC				1000 V DC / 250 V AC			
	Size Code	e	H	L	Size Code	e	H	L	Size Code	e	H	L
0.01 µF	13	4.0 (0.157)	8.0 (0.315)	13.0 (0.512)	13	5.0 (0.197)	8.0 (0.315)	13.0 (0.512)	18	5.0 (0.197)	10.0 (0.394)	18.0 (0.709)
0.015 µF	13	4.0 (0.157)	8.0 (0.315)	13.0 (0.512)	13	5.0 (0.197)	8.0 (0.315)	13.0 (0.512)	18	5.0 (0.197)	10.0 (0.394)	18.0 (0.709)
0.022 µF	13	5.0 (0.197)	8.0 (0.315)	13.0 (0.512)	13	5.0 (0.197)	8.0 (0.315)	13.0 (0.512)	18	5.5 (0.217)	11.0 (0.433)	18.0 (0.709)
0.033 µF	13	5.0 (0.197)	8.0 (0.315)	13.0 (0.512)	18	5.0 (0.197)	9.0 (0.354)	18.0 (0.709)	25	5.0 (0.197)	11.0 (0.433)	25.0 (0.984)
0.047 µF	13	5.0 (0.197)	8.0 (0.315)	13.0 (0.512)	18	6.0 (0.236)	10.0 (0.394)	18.0 (0.709)	25	6.0 (0.236)	12.0 (0.472)	25.0 (0.984)
0.068 µF	13	5.0 (0.197)	8.0 (0.315)	13.0 (0.512)	18	6.0 (0.236)	12.0 (0.472)	18.0 (0.709)	25	7.0 (0.276)	16.0 (0.630)	25.0 (0.984)
0.1 µF	18	5.0 (0.197)	9.0 (0.354)	18.0 (0.709)	18	6.0 (0.236)	13.0 (0.512)	18.0 (0.709)	25	9.0 (0.354)	16.0 (0.630)	25.0 (0.984)
0.15 µF	18	6.0 (0.236)	10.0 (0.394)	18.0 (0.709)	25	6.0 (0.236)	13.0 (0.512)	25.0 (0.984)	30	9.0 (0.354)	16.0 (0.630)	30.0 (1.181)
0.22 µF	25	5.0 (0.197)	10.0 (0.394)	25.0 (0.984)	25	7.0 (0.276)	15.0 (0.591)	25.0 (0.984)	30	10.0 (0.394)	20.0 (0.787)	30.0 (1.181)
0.33 µF	25	6.0 (0.236)	12.0 (0.472)	25.0 (0.984)	30	8.0 (0.315)	18.0 (0.709)	30.0 (1.181)	30	14.0 (0.551)	23.0 (0.906)	30.0 (1.181)
0.47 µF	25	7.0 (0.276)	14.0 (0.551)	25.0 (0.984)	30	11.0 (0.433)	18.0 (0.709)	30.0 (1.181)	40	10.0 (0.394)	22.0 (0.866)	40.0 (1.575)
0.68 µF	25	8.0 (0.315)	16.0 (0.630)	25.0 (0.984)	30	12.0 (0.472)	21.0 (0.827)	30.0 (1.181)				
1 µF	25	11.0 (0.433)	18.0 (0.709)	25.0 (0.984)	25	11.0 (0.433)	20.0 (0.787)	25.0 (0.984)				
1 µF	30	10.0 (0.394)	17.0 (0.669)	30.0 (1.181)	30	14.0 (0.551)	23.0 (0.906)	30.0 (1.181)				
1.5 µF	30	11.0 (0.433)	20.0 (0.787)	30.0 (1.181)	30	16.0 (0.630)	25.0 (0.984)	30.0 (1.181)				
1.5 µF	40	9.0 (0.354)	18.0 (0.709)	40.0 (1.575)	40	13.0 (0.512)	25.0 (0.984)	40.0 (1.575)				
2.2 µF	30	12.0 (0.472)	22.0 (0.866)	30.0 (1.181)	30	19.0 (0.748)	27.0 (1.063)	30.0 (1.181)				
2.2 µF	40	10.0 (0.394)	20.0 (0.787)	40.0 (1.575)	40	15.0 (0.591)	30.0 (1.181)	40.0 (1.575)				
3.3 µF	30	13.0 (0.512)	25.0 (0.984)	30.0 (1.181)								
3.3 µF	40	12.0 (0.472)	23.0 (0.906)	40.0 (1.575)								
4.7 µF	30	15.0 (0.591)	26.0 (1.024)	30.0 (1.181)								
4.7 µF	40	14.0 (0.551)	26.0 (1.024)	40.0 (1.575)								
6.8 µF												
6.8 µF												
10 µF												
10 µF												
15 µF												
22 µF												

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #086. Visit our website <http://www.avxcorp.com>

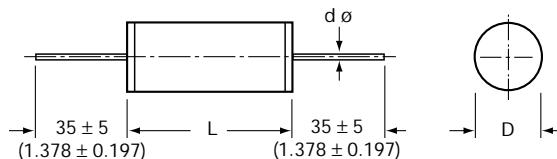
Metallized Polyester

SG-Film Dielectric Capacitors



SG 13/18/25/30/40

CPM72 - Axial Leads 63/100/250/400/630/1000 V-



STANDARDIZATION

Generic specifications:
CEI 384-1/CECC 30000/UTE 83100

Sectional specifications:
CEI 384-2/CECC 30400/UTE 83151

On the LNZ 44-04 list:
Complies with type CPM72

HOW TO ORDER

SG 13 4 G 0104 K --

(1) (2) (3) (4) (5) (6)

- (1) Type and Size
- (2) Dielectric Class: 4 = PET
- (3) Voltage
- (4) Capacitance Value
- (5) Tolerance
- (6) Suffix Tape and Reel

**Nominal Voltage (V_R) and Capacitance Values (C_R)
Depending on the Dimensions**

millimeters (inches)

Capacitance	63 V DC / 40 V AC			100 V DC / 63 V AC			250 V DC / 160 V AC		
	Size Code	D	L	Size Code	D	L	Size Code	D	L
0.01 µF									
0.015 µF									
0.022 µF									
0.033 µF									
0.047 µF									
0.068 µF				13	6.5 (0.256)	13.0 (0.512)	13	7.0 (0.276)	13.0 (0.512)
0.1 µF				13	6.5 (0.256)	13.0 (0.512)	13	7.0 (0.276)	13.0 (0.512)
0.15 µF				13	6.5 (0.256)	13.0 (0.512)	13	7.5 (0.295)	13.0 (0.512)
0.22 µF	13	6.5 (0.256)	13.0 (0.512)	13	6.5 (0.256)	13.0 (0.512)	13	8.0 (0.315)	13.0 (0.512)
0.33 µF	13	6.5 (0.256)	13.0 (0.512)	18	6.0 (0.236)	18.0 (0.709)	18	8.0 (0.315)	18.0 (0.709)
0.47 µF	13	7.0 (0.276)	13.0 (0.512)	18	7.0 (0.276)	18.0 (0.709)	18	9.0 (0.354)	18.0 (0.709)
0.68 µF	13	7.0 (0.276)	13.0 (0.512)	18	8.0 (0.315)	18.0 (0.709)	18	10.0 (0.394)	18.0 (0.709)
0.68 µF	18	6.5 (0.256)	18.0 (0.709)						
1 µF	13	8.0 (0.315)	13.0 (0.512)	13	11.0 (0.433)	13.0 (0.512)	18	12.0 (0.472)	18.0 (0.709)
1 µF	18	7.5 (0.276)	18.0 (0.709)	18	9.0 (0.354)	18.0 (0.709)	25	10.0 (0.394)	25.0 (0.984)
1.5 µF	13	8.0 (0.315)	13.0 (0.512)	18	11.0 (0.433)	18.0 (0.709)	25	10.0 (0.394)	25.0 (0.984)
1.5 µF	18	8.5 (0.335)	18.0 (0.709)	25	9.0 (0.354)	25.0 (0.984)	30	11.0 (0.433)	30.0 (1.181)
2.2 µF	18	9.5 (0.374)	18.0 (0.709)	18	13.0 (0.512)	18.0 (0.709)	25	14.0 (0.551)	25.0 (0.984)
2.2 µF	25	8.5 (0.335)	25.0 (0.984)	25	11.0 (0.433)	25.0 (0.984)	30	13.0 (0.512)	30.0 (1.181)
3.3 µF	18	11.0 (0.433)	18.0 (0.709)	18	15.0 (0.591)	18.0 (0.709)	25	17.0 (0.669)	25.0 (0.984)
3.3 µF	25	10.0 (0.394)	25.0 (0.984)	25	12.0 (0.472)	25.0 (0.984)	30	14.0 (0.551)	30.0 (1.181)
4.7 µF	18	13.0 (0.512)	18.0 (0.709)	25	15.0 (0.591)	25.0 (0.984)	30	18.0 (0.709)	30.0 (1.181)
4.7 µF	25	12.0 (0.472)	25.0 (0.984)	30	14.0 (0.551)	30.0 (1.181)	40	11.0 (0.433)	40.0 (1.575)
6.8 µF	25	15.0 (0.591)	25.0 (0.984)	25	17.0 (0.669)	25.0 (0.984)	30	21.0 (0.827)	30.0 (1.181)
6.8 µF	30	12.0 (0.472)	30.0 (1.181)	30	16.0 (0.630)	30.0 (1.181)	40	13.0 (0.512)	40.0 (1.575)
10 µF	25	17.0 (0.669)	25.0 (0.984)	30	18.0 (0.709)	30.0 (1.181)	30	23.0 (0.906)	30.0 (1.181)
10 µF	30	14.5 (0.571)	30.0 (1.181)	40	16.0 (0.630)	40.0 (1.575)	40	14.0 (0.551)	40.0 (1.575)
15 µF		upon request			upon request				
22 µF		upon request			upon request				

Capacitance	400 V DC / 200 V AC			630 V DC / 220 V AC			1000 V DC / 250 V AC		
	Size Code	D	L	Size Code	D	L	Size Code	D	L
0.01 µF				13	6.5 (0.256)	13.0 (0.512)	13	8.0 (0.315)	13.0 (0.512)
0.015 µF				13	7.0 (0.276)	13.0 (0.512)	18	8.0 (0.315)	18.0 (0.709)
0.022 µF	13	6.5 (0.256)	13.0 (0.512)	13	8.0 (0.315)	13.0 (0.512)	18	9.0 (0.354)	18.0 (0.709)
0.033 µF	13	6.5 (0.256)	13.0 (0.512)	18	6.5 (0.256)	18.0 (0.709)	18	11.0 (0.433)	18.0 (0.709)
0.047 µF	13	7.5 (0.276)	13.0 (0.512)	18	7.0 (0.276)	18.0 (0.709)	18	12.0 (0.472)	18.0 (0.709)
0.068 µF	13	8.0 (0.315)	13.0 (0.512)	18	8.0 (0.315)	18.0 (0.709)	25	11.0 (0.433)	25.0 (0.984)
0.1 µF	18	7.0 (0.276)	18.0 (0.709)	18	10.0 (0.394)	18.0 (0.709)	25	13.0 (0.512)	25.0 (0.984)
0.15 µF	18	8.5 (0.335)	18.0 (0.709)	25	10.0 (0.394)	25.0 (0.984)	30	14.0 (0.551)	30.0 (1.181)
0.22 µF	25	9.0 (0.354)	25.0 (0.984)	25	12.5 (0.492)	25.0 (0.984)	30	16.0 (0.630)	30.0 (1.181)
0.33 µF	25	9.5 (0.374)	25.0 (0.984)	25	13.0 (0.512)	25.0 (0.984)	40	16.0 (0.630)	40.0 (1.575)
0.47 µF	25	11.0 (0.433)	25.0 (0.984)	25	14.0 (0.551)	25.0 (0.984)	40	19.0 (0.748)	40.0 (1.575)
0.68 µF	30	10.0 (0.394)	30.0 (1.181)	30	12.0 (0.472)	30.0 (1.181)	40	21.0 (0.827)	40.0 (1.575)
0.68 µF									
1 µF	25	16.0 (0.630)	25.0 (0.984)	30	14.0 (0.551)	30.0 (1.181)			
1 µF	30	11.0 (0.433)	30.0 (1.181)	40	15.0 (0.591)	40.0 (1.575)			
1.5 µF	30	12.0 (0.472)	30.0 (1.181)	30	16.0 (0.630)	30.0 (1.181)			
1.5 µF	40	14.0 (0.551)	40.0 (1.575)	40	16.0 (0.630)	40.0 (1.575)			
2.2 µF	30	13.0 (0.512)	30.0 (1.181)	30	17.0 (0.669)	30.0 (1.181)			
2.2 µF	40	17.0 (0.669)	40.0 (1.575)	40	18.0 (0.709)	40.0 (1.575)			
3.3 µF	30	16.0 (0.630)	30.0 (1.181)						
3.3 µF	40	20.0 (0.787)	40.0 (1.575)						
4.7 µF									
4.7 µF									
6.8 µF									
6.8 µF									
10 µF									
10 µF									
15 µF									
22 µF									

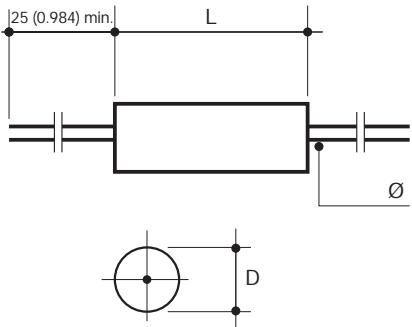
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #087.
Visit our website <http://www.avxcorp.com>

Metallized Polyester Film Dielectric Capacitors



ST 22/36

Axial Leads 630 V- ... 10,000 V-



HOW TO ORDER

ST 36 4 V 0102 M --
 ① ② ③ ④ ⑤ ⑥

- ① Type and Size
- ② Dielectric Class: 4 = PET
- ③ Voltage
- ④ Capacitance Value
- ⑤ Tolerance
- ⑥ Suffix
Tape and Reel

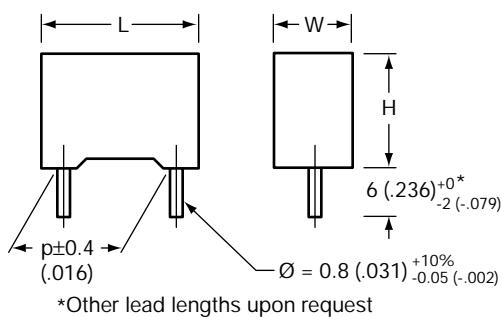
**Nominal Voltage (V_R) and Capacitance Values (C_R)
Depending on the Dimensions**

Size Code	DIMENSIONS: millimeters (inches)			Range of Capacitances (C_R min. ... max.)						
				ST						
	V _R -									
	Max L	Max D	Ø +10% -0.05	630	1,000	1,600	2,500	5,000	6,300	10,000
22	22.0 (0.866)	10.0 (0.394)	0.8 (0.031)	-	15 nF/22 nF	6.8 nF ~ 15 nF	2.2 nF ~ 4.7 nF	150 pF/220 pF	-	-
	22.0 (0.866)	12.5 (0.492)	0.8 (0.031)	-	33 nF/47 nF	22 nF	6.8 nF	330 pF/470 pF	-	-
	22.0 (0.866)	15.0 (0.591)	0.8 (0.031)	-	68 nF	33 nF	10 nF/15 nF	680 pF	-	-
	22.0 (0.866)	17.5 (0.689)	0.8 (0.031)	-	100 nF	47 nF/68 nF	22 nF	1 nF	-	-
36	36.0 (1.417)	10.0 (0.394)	1.0 (0.031)	-	47 nF	15 nF ~ 33 nF	6.8 nF ~ 10 nF	1.5 nF/2.2 nF	1 nF	100 pF/220 pF
	36.0 (1.417)	12.5 (0.492)	1.0 (0.031)	-	68 nF/100 nF	47 nF	15 nF/22 nF	3.3 nF/4.7 nF	1.5 nF	330 pF
	36.0 (1.417)	15.0 (0.591)	1.0 (0.031)	-	150 nF	68 nF/100 nF	33 nF	6.8 nF	2.2 nF/3.3 nF	470 pF/680 pF
	36.0 (1.417)	17.5 (0.689)	1.0 (0.031)	-	220 nF	150 nF	47 nF	10 nF	4.7 nF	1 nF
	36.0 (1.417)	20.0 (0.787)	1.0 (0.031)	-	330 nF	-	68 nF	15 nF	-	-
	36.0 (1.417)	22.5 (0.886)	1.0 (0.031)	1 μ F	470 nF	220 nF	100 nF	-	6.8 nF	1.5 nF
	36.0 (1.417)	25.0 (0.984)	1.0 (0.031)	1.5 μ F	-	330 nF	-	22 nF	10 nF	2.2 nF
	36.0 (1.417)	27.5 (1.083)	1.0 (0.031)	-	680 nF	-	150 nF	33 nF	-	-

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #088. Visit our website <http://www.avxcorp.com>

TPC 'X' Class Suppression Capacitors

QX Series



- For X2 electromagnetic interference suppression.
- Specially designed to meet the requirements of the NEW IEC 384-14 specification (2.5 kV peak pulse voltage test).
- Approved for 3 kV pulse test.

Approvals

	VDE EN 132 400	Class X2 capacitors
	up to 1µF	File No. 94684
	IMQ EN 132 400	Class X2 capacitors
	up to 1µF	File No. V 4492
	SEV EN 132 400	Class X2 capacitors
	up to 1µF	File No. 96.1 10440.01
	CSA C22.2	Across the line capacitors
	N° 1-94	
	up to 1µF	File No. LR 100430.8
	UL 1414	Across the line capacitors
	up to 1µF	File No. E 184051

CSA and UL approved with a voltage of 250 Vac only.

Approved according to EN 132 400 (IEC 384-14, 2nd Edition 1993).

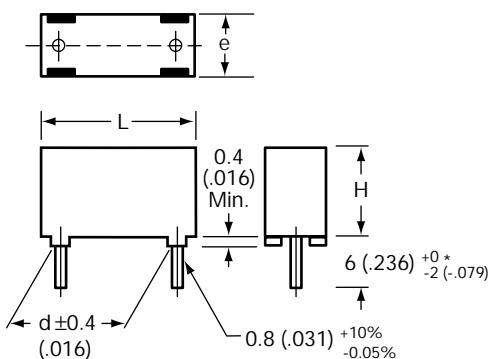
Capacitance Range and Dimensions: millimeters (inches)

Size	Capacitance	Dimensions				Rated current at 50 Hz (mA)
		P ± 0.4 Pitch	L Length ± 0.4	H Height ± 0.3	W Width ± 0.4	
10	1 nF	10.0 (0.394)	12.4 (0.488)	9.9 (0.390)	5.0 (0.197)	0.10
	1.5 nF	10.0 (0.394)	12.4 (0.488)	9.9 (0.390)	5.0 (0.197)	0.15
	2.2 nF	10.0 (0.394)	12.4 (0.488)	9.9 (0.390)	5.0 (0.197)	0.22
	3.3 nF	10.0 (0.394)	12.4 (0.488)	9.9 (0.390)	5.0 (0.197)	0.33
	4.7 nF	10.0 (0.394)	12.4 (0.488)	9.9 (0.390)	5.0 (0.197)	0.47
	6.8 nF	10.0 (0.394)	12.4 (0.488)	13.4 (0.528)	5.0 (0.197)	0.68
	10 nF	10.0 (0.394)	12.4 (0.488)	13.4 (0.528)	5.0 (0.197)	1.00
15	10 nF	15.0 (0.591)	17.4 (0.685)	10.4 (0.409)	5.0 (0.197)	1.00
	15 nF	15.0 (0.591)	17.4 (0.685)	10.4 (0.409)	5.0 (0.197)	1.50
	22 nF	15.0 (0.591)	17.4 (0.685)	10.4 (0.409)	5.0 (0.197)	2.20
	33 nF	15.0 (0.591)	17.4 (0.685)	10.4 (0.409)	5.0 (0.197)	3.30
	47 nF	15.0 (0.591)	17.4 (0.685)	10.4 (0.409)	5.0 (0.197)	4.70
	68 nF	15.0 (0.591)	17.4 (0.685)	13.4 (0.528)	5.0 (0.197)	6.80
	100 nF	15.0 (0.591)	17.4 (0.685)	13.4 (0.528)	6.1 (0.240)	10.0
22	150 nF	15.0 (0.591)	17.4 (0.685)	14.4 (0.567)	8.3 (0.327)	15.0
	150 nF	22.5 (0.886)	26.1 (1.028)	14.9 (0.587)	7.3 (0.287)	15.0
	220 nF	22.5 (0.886)	26.1 (1.028)	14.9 (0.587)	7.3 (0.287)	22.0
	330 nF	22.5 (0.886)	26.1 (1.028)	19.4 (0.764)	9.8 (0.386)	33.0
27	470 nF	22.5 (0.886)	26.1 (1.028)	19.4 (0.764)	9.8 (0.386)	47.0
	470 nF	27.5 (1.083)	31.1 (1.224)	19.3 (0.760)	9.8 (0.386)	47.0
	680 nF	27.5 (1.083)	31.1 (1.224)	22.4 (0.882)	12.9 (0.508)	68.0
	1000 nF	27.5 (1.083)	31.1 (1.224)	22.4 (0.882)	12.9 (0.508)	100.0
	1500 nF	27.5 (1.083)	31.1 (1.224)	29.8 (1.173)	17.3 (0.681)	150.0
	2200 nF	27.5 (1.083)	31.1 (1.224)	31.3 (1.232)	20.7 (0.815)	220.0

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #089. Visit our website <http://www.avxcorp.com>

TPC 'Y' Class Suppression Capacitors

BY Series



- Y function suppression capacitor ($U_{rms} = 250$ V).
- Mains suppression, earth-mains connection, shock protection.
- Non-inductive, self-healing, insulated.

Approvals

	VDE 0565-1	All models	File No. 49950
	IMO	All models	File No. V2258
	DEMKO	All models	File No. 91975 EC
	SEMKO	All models	File No. 8850110
	FI SETI	All models	File No. 126107-01
	NEMKO	All models	File No. M 69061
	ÖVE	All models	File No. 19602/R
	UL 1283	All models	File No. 102673

HOW TO ORDER

BY 22 6 G 0334 M EN

① Series Code:

BY = 'Y' Class

② Size Code:

10 = 10mm Pitch; 15 = 15mm Pitch
22 = 22.5mm Pitch; 27 = 27.5mm Pitch

③ Dielectric Code:

6 = BY

④ Voltage Code:

G = 250 Vac BY Series

⑤ Capacitance Code:

1st digit: insignificant. 2nd & 3rd:
2 significant figures of the capacitance value.
4th digit: number of zeros to follow the
capacitance code.
Example: 0334 = 330,000pF

⑥ Tolerance Code:

K = $\pm 10\%$
M = $\pm 20\%$

⑦ Packaging Code:

Blank	Bulk
EN:	Taped

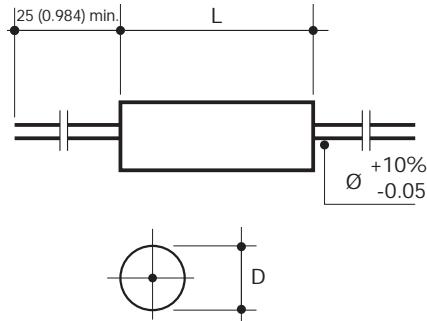
Capacitance Range and Dimensions: millimeters (inches)

Format Size	C_R (nF)	Dimensions			
		L max.	H max.	e max.	$d \pm 0.4$
10	1 - 1.5 - 2.2	12.5 (.492)	10.0 (.394)	5.0 (.197)	10.0 (.394)
	3.3	12.5 (.492)	13.5 (.531)	5.0 (.197)	10.0 (.394)
15	4.7 / 6.8	17.5 (.689)	10.5 (.413)	5.0 (.197)	15.0 (.591)
	10	17.5 (.689)	13.5 (.531)	5.0 (.197)	15.0 (.591)
	15 - 22	17.5 (.689)	14.5 (.571)	8.5 (.335)	15.0 (.591)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #090. Visit our website <http://www.avxcorp.com>

Metallized Polypropylene

SI-Precision Film Dielectric Capacitors



HOW TO ORDER

SI18 6 G 0103 J --

① ② ③ ④ ⑤ ⑥

① Type and Size

② Dielectric Class: Polypropylene

③ Voltage: D = 63, G = 250,
F = 160, I = 400

④ Capacitance Value: 10,000pF

⑤ Tolerance: ±1%, ±2%, ±5%

⑥ Suffix

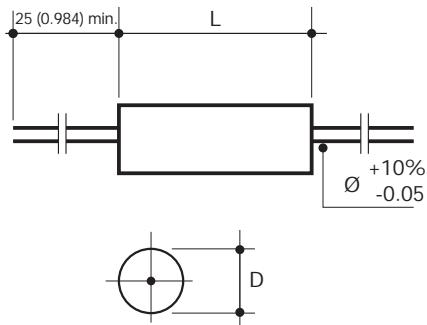
Nominal Voltage (V_R) and Capacitance Values (C_R)
Depending on the Dimensions

Size Code	DIMENSIONS: millimeters (inches)			Range of Capacitances (C_R min. ... max.)			
				V_{R^-} / V_{R^+}			
	Max L	Max D	\emptyset +10% -0.05	D	F	G	I
				63 V_R	160 V_R	250 V_R	400 V_R
18	20.0 (0.787) 20.0 (0.787) 20.0 (0.787)	7.5 (0.295) 8.75 (0.344) 10.0 (0.394)	0.8 (0.031) 0.8 (0.031) 0.8 (0.031)	30.9nF ~ 47.5nF 48.7nF ~ 68.1nF 69.8nF ~ 100nF	16.2nF ~ 30.1nF 30.9nF ~ 43.2nF 44.2nF ~ 63.4nF	3.92nF ~ 16.2nF 16.5nF ~ 24.3nF 24.9nF ~ 33.2nF	100pF ~ 4.32nF 4.42nF ~ 6.34nF 6.49npF ~ 9.31nF

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #091. Visit our website <http://www.avxcorp.com>



Metallized Polypropylene SC-Precision Film Dielectric Capacitors



HOW TO ORDER

SC18 6 I 0104 J --
 ① ② ③ ④ ⑤ ⑥

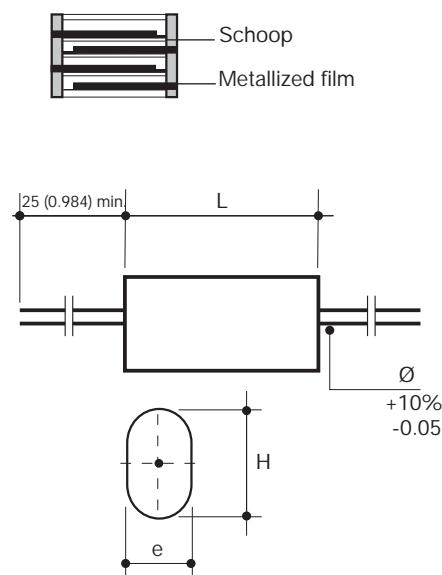
- ① Type and Size
- ② Dielectric Class: Polypropylene
- ③ Voltage: F = 160, I = 400, G = 250, K = 630
- ④ Capacitance Value: 0.1 μ F
- ⑤ Tolerance: $\pm 1\%$, $\pm 2\%$, $\pm 5\%$
- ⑥ Suffix

Nominal Voltage (V_R) and Capacitance Values (C_R)
Depending on the Dimensions

Size Code	DIMENSIONS: millimeters (inches)			Range of Capacitances (C_R min ... max.)			
	Max L	Max D	\emptyset +10% -0.05	V_{R-} / V_{R-}			
				F 160/100	G 250/160	I 400/200	K 630/250
10	12.0 (0.472)	5.0 (0.197)	0.6 (0.024)	8.25nF ~ 21.5nF	4.30nF ~ 8.25nF	2.40nF ~ 4.22nF	1nF ~ 2.37nF
13	14.5 (0.571)	5.0 (0.197)	0.6 (0.024)	22nF ~ 42.2nF	8.45nF ~ 17.8nF	4.3nF ~ 9.1nF	2.40nF ~ 5.11nF
	14.5 (0.571)	6.25 (0.246)	0.6 (0.024)	43nF ~ 75nF	18nF ~ 31.6nF	9.31nF ~ 17.8nF	5.23nF ~ 10nF
	14.5 (0.571)	7.5 (0.295)	0.6 (0.024)	76.8nF ~ 133nF	32.4nF ~ 62nF	18nF ~ 31.6nF	10.2nF ~ 19.6nF
18	19.0 (0.748)	7.5 (0.295)	0.8 (0.031)	137nF ~ 215nF	63.4nF ~ 91nF	32.4nF ~ 51.1nF	20nF ~ 31.6nF
	19.0 (0.748)	8.75 (0.344)	0.8 (0.031)	220nF ~ 316nF	93.1nF ~ 147nF	52.3nF ~ 75nF	32.4nF ~ 47nF
	19.0 (0.748)	10.0 (0.394)	0.8 (0.031)	324nF ~ 470nF	150nF ~ 215nF	76.8nF ~ 110nF	47.5nF ~ 75nF
25	27.5 (1.083)	8.75 (0.344)	0.8 (0.031)	475nF ~ 634nF	220nF ~ 274nF	113nF ~ 150nF	76.8nF ~ 100nF
	27.5 (1.083)	10.0 (0.394)	0.8 (0.031)	649nF ~ 910nF	280nF ~ 402nF	154nF ~ 221nF	102nF ~ 147nF
	27.5 (1.083)	11.25 (0.443)	0.8 (0.031)	931nF ~ 1.21 μ F	412nF ~ 536nF	226nF ~ 294nF	150nF ~ 196nF
	27.5 (1.083)	12.5 (0.492)	0.8 (0.031)	1.24 μ F ~ 1.54 μ F	549nF ~ 698nF	300nF ~ 383nF	200nF ~ 249nF
31	32.5 (1.280)	12.5 (0.492)	0.8 (0.031)	1.58 μ F ~ 1.96 μ F	715nF ~ 866nF	390nF ~ 487nF	255nF ~ 316nF
	32.5 (1.280)	15.0 (0.591)	0.8 (0.031)	2 μ F ~ 3.01 μ F	887nF ~ 1.33 μ F	499nF ~ 750nF	324nF ~ 487nF
	32.5 (1.280)	17.5 (0.689)	0.8 (0.031)	3.09 μ F ~ 4.22 μ F	1.37 μ F ~ 1.78 μ F	768nF ~ 1.07 μ F	499nF ~ 681nF
	32.5 (1.280)	20.0 (0.787)	0.8 (0.031)	4.30 μ F ~ 5.62 μ F	1.8 μ F ~ 2.55 μ F	1.1 μ F ~ 1.43 μ F	698nF ~ 931nF

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #092. Visit our website <http://www.avxcorp.com>

Metallized Polypropylene SA-Voltage Gradient Film Dielectric Capacitors



Voltage Gradients According to Voltage and Size

Tension/Voltage V_{R-}	V_{R-} (eff/rms)	Format Size	Gradient* (du/dt) _R (V/ μ s)
160V	100V	10	1200
		13	850
		18	400
		27	160
250V	160V	31	110
		10	1310
		13	1000
		18	440
400V	200V	27	195
		31	150
		10	1620
		13	1250
630V	250V	18	985
		27	260
		31	200
		10	2750
		13	2500
		18	1930
		27	1090
		31	760

HOW TO ORDER

SA18 6 G 0334 J --

① ② ③ ④ ⑤ ⑥

① Type and Size

② Dielectric Class: Polypropylene

③ Voltage: F = 160
G = 250
I = 400
K = 630

④ Capacitance Value: 10,000pF

⑤ Tolerance

⑥ Suffix

*For nominal rms currents consult AVX.

Absolute limits which must not be exceeded for rapid discharges with nominal voltage V_{R-} –

Nominal Voltage (V_R) and Capacitance Values (C_R)
Depending on the Dimensions

Size Code	DIMENSIONS: millimeters (inches)				Range of Capacitances (C_R min. ... max.)			
	Max L	Max H	Max e	\emptyset +10% -0.05	V_{R-} / V_{R-}			
					F 160/100		G 250/160	
					160/100	250/160	400/200	630/250
10	12.0 (0.472)	7.5 (0.295)	4.5 (0.177)	0.6 (0.024)	16nF ~ 33nF	9.1nF ~ 15nF	5.6nF ~ 8.2nF	1nF ~ 5.1nF
13	14.5 (0.571)	7.5 (0.295)	4.5 (0.177)	0.6 (0.024)	36nF ~ 68nF	16nF ~ 30nF	9.1nF ~ 16nF	5.6nF ~ 10nF
	14.5 (0.571)	11.0 (0.433)	4.5 (0.177)	0.6 (0.024)	75nF ~ 0.13μF	33nF ~ 56nF	18nF ~ 33nF	11nF ~ 20nF
18	20.0 (0.787)	11.0 (0.433)	4.5 (0.177)	0.8 (0.031)	0.15μF ~ 0.24μF	62nF ~ 0.11μF	36nF ~ 62nF	22nF ~ 39nF
	20.0 (0.787)	11.0 (0.433)	5.75 (0.226)	0.8 (0.031)	0.27μF ~ 0.33μF	0.12μF ~ 0.13μF	68nF ~ 82nF	43nF ~ 51nF
	20.0 (0.787)	12.0 (0.472)	7.0 (0.276)	0.8 (0.031)	0.36μF ~ 0.47μF	0.15μF ~ 0.20μF	91nF ~ 0.11μF	56nF ~ 75nF
	20.0 (0.787)	13.0 (0.512)	8.25 (0.325)	0.8 (0.031)	0.51μF ~ 0.56μF	0.22μF ~ 0.27μF	0.12μF ~ 0.15μF	82nF ~ 0.1μF
	20.0 (0.787)	14.0 (0.551)	9.5 (0.374)	0.8 (0.031)	0.62μF ~ 0.75μF	0.30μF ~ 0.33μF	0.16μF ~ 0.18μF	0.11μF ~ 0.12μF
	20.0 (0.787)	16.0 (0.630)	9.5 (0.374)	0.8 (0.031)	0.82μF ~ 0.91μF	0.36μF ~ 0.43μF	0.20μF ~ 0.24μF	0.13μF ~ 0.15μF
	20.0 (0.787)	18.0 (0.709)	12.0 (0.472)	0.8 (0.031)	1μF ~ 1.3μF	0.47μF ~ 0.56μF	0.27μF ~ 0.33μF	0.16μF ~ 0.22μF
	20.0 (0.787)	22.0 (0.866)	14.0 (0.551)	0.8 (0.031)	1.5μF ~ 2μF	0.62μF ~ 0.82μF	0.36μF ~ 0.51μF	0.24μF ~ 0.33μF
	20.0 (0.787)	26.0 (1.024)	16.5 (0.650)	0.8 (0.031)	2.2μF ~ 2.7μF	0.91μF ~ 1.2μF	0.56μF ~ 0.68μF	0.36μF ~ 0.47μF
27	28.5 (1.122)	12.0 (0.472)	7.0 (0.276)	1.0 (0.039)	0.82μF	0.36μF ~ 0.39μF	0.20μF ~ 0.22μF	0.13μF
	28.5 (1.122)	13.5 (0.531)	7.0 (0.276)	1.0 (0.039)	0.91μF ~ 1μF	0.43μF	0.24μF	0.15μF ~ 0.16μF
	28.5 (1.122)	14.5 (0.571)	8.25 (0.325)	1.0 (0.039)	1.1μF ~ 1.3μF	0.47μF ~ 0.62μF	0.27μF ~ 0.36μF	0.18μF ~ 0.22μF
	28.5 (1.122)	16.0 (0.630)	9.5 (0.374)	1.0 (0.039)	1.5μF ~ 1.6μF	0.68μF ~ 0.75μF	0.39μF ~ 0.43μF	0.24μF ~ 0.30μF
	28.5 (1.122)	18.0 (0.709)	12.0 (0.472)	1.0 (0.039)	1.8μF ~ 2.4μF	0.82μF ~ 1.1μF	0.47μF ~ 0.62μF	0.33μF ~ 0.39μF
	28.5 (1.122)	22.0 (0.866)	14.0 (0.551)	1.0 (0.039)	2.7μF ~ 3.6μF	1.2μF ~ 1.6μF	0.68μF ~ 0.91μF	0.43μF ~ 0.62μF
	28.5 (1.122)	26.0 (1.024)	16.5 (0.650)	1.0 (0.039)	3.9μF ~ 5.1μF	1.8μF ~ 2.4μF	1μF ~ 1.3μF	0.68μF ~ 0.91μF
31	33.0 (1.300)	16.0 (0.630)	9.5 (0.374)	1.0 (0.039)	1.8μF ~ 2μF	0.82μF ~ 0.91μF	0.47μF ~ 0.51μF	0.33μF ~ 0.36μF
	33.0 (1.300)	19.0 (0.748)	12.0 (0.472)	1.0 (0.039)	2.2μF ~ 3μF	1μF ~ 1.3μF	0.56μF ~ 0.82μF	0.39μF ~ 0.51μF
	33.0 (1.300)	22.5 (0.886)	14.5 (0.571)	1.0 (0.039)	3.3μF ~ 4.7μF	1.5μF ~ 2.2μF	0.91μF ~ 1.2μF	0.56μF ~ 0.82μF
	33.0 (1.300)	26.5 (1.043)	17.0 (0.669)	1.0 (0.039)	5.1μF ~ 6.8μF	2.4μF ~ 3μF	1.3μF ~ 1.8μF	0.91μF ~ 1.1μF
	33.0 (1.300)	28.5 (1.122)	19.0 (0.748)	1.0 (0.039)	7.5μF ~ 8.2μF	3.3μF ~ 3.9μF	2μF ~ 2.2μF	1.2μF ~ 1.3μF
	33.0 (1.300)	31.0 (1.220)	21.5 (0.846)	1.0 (0.039)	9.1μF ~ 10μF	4.3μF ~ 4.7μF	2.4μF ~ 2.7μF	1.5μF ~ 1.8μF

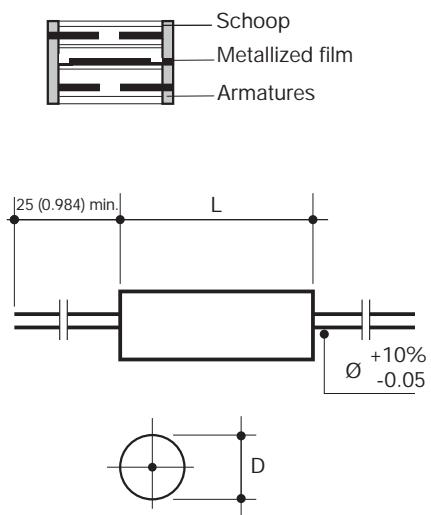
Values from the E24 Series (tol. ±5%)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #093. Visit our website <http://www.avxcorp.com>



Metallized Polypropylene

S2-Voltage Gradient Film Dielectric Capacitors



Voltage Gradients According to Voltage and Size

Tension/Voltage V_{R-}	V_{R-} (eff/rms)	Format Size	Gradient* ($\text{d}u/\text{dt}$) _R (V/ μs)
630V	330V	18	2400
		27	2000
		35	1700
		45	1300
1kF	425V	18	3600
		27	3000
		35	2300
		45	2000
1.6kV	500V	18	7400
		27	6400
		35	4300
		45	3400
2kV	500V	18	10100
		27	10100
		35	6700
		45	3800

Absolute limits which must not be exceeded in rapid discharge under nominal voltage V_{R-}

HOW TO ORDER

S218 6 K 0103 J --

① ② ③ ④ ⑤ ⑥

① Type and Size

② Dielectric Class: Polypropylene

③ Voltage: K = 630, M = 1600,
L = 1000, N = 2000

④ Capacitance Value: 10,000pF

⑤ Tolerance

⑥ Suffix

*For nominal rms currents consult AVX.

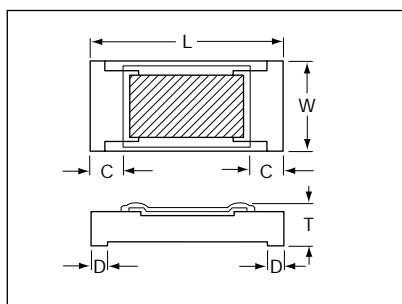
Nominal Voltage (V_R) and Capacitance Values (C_R) Depending on the Dimensions

Size Code	DIMENSIONS: millimeters (inches)			Range of Capacitances (C_R min ... max.)			
	Max L	Max D	\emptyset +10% -0.05	V_{R-} / V_{R-}			
				K		L	M
				630/330		1000/425	1600/500
18	20.0 (0.787)	7.5 (0.295)	0.8 (0.031)	2.4nF ~ 4.7nF	910pF ~ 92nF	680pF ~ 820pF	100pF ~ 560pF
	20.0 (0.787)	8.75 (0.344)	0.8 (0.031)	5.1nF ~ 6.8nF	910pF ~ 1.3nF	910pF ~ 1.3nF	620pF ~ 910pF
	20.0 (0.787)	10.0 (0.394)	0.8 (0.031)	7.5nF ~ 10nF	3.9nF ~ 4.7nF	1.5nF ~ 1.8nF	1nF ~ 1.2nF
	20.0 (0.787)	12.5 (0.492)	0.8 (0.031)	11nF ~ 16nF	5.1nF ~ 8.2nF	2nF ~ 3.3nF	1.3nF ~ 2.2nF
	20.0 (0.787)	13.75 (0.541)	0.8 (0.031)	18nF ~ 20nF	9.1nF ~ 10nF	3.6nF ~ 3.9nF	2.4nF ~ 3nF
	20.0 (0.787)	15.0 (0.591)	0.8 (0.031)	22nF ~ 24nF	11nF ~ 12nF	4.3nF ~ 4.7nF	3.30nF
27	29.0 (1.142)	7.5 (0.295)	0.8 (0.031)	7.5nF ~ 15nF	2.7nF ~ 6.8nF	1.6nF ~ 2.4nF	0.62nF ~ 1.5nF
	29.0 (1.142)	8.75 (0.344)	0.8 (0.031)	16nF ~ 22nF	7.5nF ~ 10nF	2.7nF ~ 3.6nF	1.6nF ~ 2.4nF
	29.0 (1.142)	10.0 (0.394)	0.8 (0.031)	24nF ~ 30nF	11nF ~ 15nF	3.9nF ~ 5.1nF	2.7nF ~ 3.6nF
	29.0 (1.142)	12.5 (0.492)	0.8 (0.031)	33nF ~ 51nF	16nF ~ 24nF	5.6nF ~ 9.1nF	3.9nF ~ 6.2nF
	29.0 (1.142)	15.0 (0.591)	0.8 (0.031)	56nF ~ 75nF	27nF ~ 36nF	10nF ~ 13nF	6.8nF ~ 9.1nF
	29.0 (1.142)	17.5 (0.689)	0.8 (0.031)	82nF ~ 100nF	39nF ~ 51nF	15nF ~ 20nF	10nF ~ 13nF
35	29.0 (1.142)	20.0 (0.787)	1.0 (0.039)	110nF ~ 130nF	56nF ~ 68nF	22nF ~ 27nF	15nF ~ 18nF
	33.0 (1.300)	10.0 (0.394)	1.0 (0.039)	24nF ~ 47nF	9.1nF ~ 22nF	5.6nF ~ 8.2nF	1nF ~ 5.1nF
	33.0 (1.300)	12.5 (0.492)	1.0 (0.039)	51nF ~ 75nF	24nF ~ 39nF	9.1nF ~ 13nF	5.6nF ~ 10nF
	33.0 (1.300)	15.0 (0.591)	1.0 (0.039)	82nF ~ 120nF	43nF ~ 56nF	15nF ~ 22nF	11nF ~ 15nF
	33.0 (1.300)	17.5 (0.689)	1.0 (0.039)	130nF ~ 160nF	62nF ~ 82nF	24nF ~ 30nF	16nF ~ 22nF
	33.0 (1.300)	20.0 (0.787)	1.0 (0.039)	180nF ~ 220nF	91nF ~ 110nF	33nF ~ 43nF	24nF ~ 30nF
	33.0 (1.300)	22.5 (0.886)	1.0 (0.039)	240nF ~ 270nF	120nF ~ 130nF	47nF ~ 51nF	33nF ~ 36nF
	33.0 (1.300)	25.0 (0.984)	1.0 (0.039)	300nF ~ 360nF	150nF ~ 160nF	56nF ~ 62nF	39nF ~ 47nF
	33.0 (1.300)	27.5 (1.083)	1.0 (0.039)	390nF ~ 430nF	180nF ~ 220nF	68nF ~ 82nF	51nF ~ 56nF
	33.0 (1.300)	30.0 (1.181)	1.0 (0.039)	470nF ~ 510nF	240nF ~ 280nF	91nF ~ 100nF	62nF ~ 68nF
	33.0 (1.300)	32.5 (1.280)	1.0 (0.039)	560nF ~ 620nF	300nF	110nF	75nF ~ 82nF
	33.0 (1.300)	35.0 (1.378)	1.0 (0.039)	680nF	330nF ~ 360nF	120nF ~ 130nF	91nF
	33.0 (1.300)	37.5 (1.476)	1.0 (0.039)	750nF ~ 820nF	390nF	150nF ~ 160nF	100nF ~ 110nF
45	45.0 (1.772)	12.5 (0.492)	1.0 (0.039)	82nF ~ 110nF	47nF ~ 56nF	16nF ~ 22nF	10nF ~ 15nF
	45.0 (1.772)	15.0 (0.591)	1.0 (0.039)	120nF ~ 180nF	62nF ~ 82nF	24nF ~ 36nF	16nF ~ 24nF
	45.0 (1.772)	17.5 (0.689)	1.0 (0.039)	200nF ~ 240nF	91nF ~ 120nF	39nF ~ 47nF	27nF ~ 33nF
	45.0 (1.772)	20.0 (0.787)	1.0 (0.039)	270nF ~ 330nF	130nF ~ 160nF	51nF ~ 62nF	36nF ~ 43nF
	45.0 (1.772)	22.5 (0.886)	1.0 (0.039)	360nF ~ 430nF	180nF ~ 220nF	68nF ~ 82nF	47nF ~ 56nF
	45.0 (1.772)	25.0 (0.984)	1.0 (0.039)	470nF ~ 560nF	240nF ~ 270nF	91nF ~ 110nF	62nF ~ 75nF
	45.0 (1.772)	27.5 (1.083)	1.0 (0.039)	620nF ~ 680nF	300nF ~ 330nF	120nF ~ 130nF	82nF ~ 91nF
	45.0 (1.772)	30.0 (1.181)	1.0 (0.039)	750nF ~ 820nF	360nF ~ 390nF	150nF	100nF ~ 110nF
	45.0 (1.772)	32.5 (1.280)	1.0 (0.039)	910nF	430nF ~ 470nF	160nF ~ 180nF	120nF
	45.0 (1.772)	35.0 (1.378)	1.0 (0.039)	1μF ~ 1.1μF	510nF ~ 560nF	200nF ~ 220nF	130nF ~ 150nF

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #094. Visit our website <http://www.avxcorp.com>

Thick Film Chip Resistors

CR05 / CR10 / CR21 / CR32 Series



Standard Packaging:

	BULK	TAPE & REEL 7"	10"
CR05	1,000	10,000	50,000
CR10	1,000	5,000	10,000
CR21	1,000	5,000	10,000
CR32	1,000	5,000	10,000

HOW TO ORDER

CR 32 - 101 J - T
 ① ② ③ ④ ⑤

① **Style:** CR = Chip resistor; CJ = Zero ohm jumper

② **Case Size:**

05 = 0402 10 = 0603
21 = 0805 32 = 1206

③ **Resistance Code:**

G, J, and K tolerances = 2 significant digits plus number of zeros
F tolerance = 3 significant digits plus number of zeros
Zero ohm jumper = 000

④ **Resistance Tolerance:**

Blank = Jumper K = $\pm 10\%$
G = $\pm 2\%$ J = $\pm 5\%$
F = $\pm 1\%$ (available in case size CR10, CR21 and CR32 only)

⑤ **Packaging**

Dimensions:

	CR05 (0402)				CR10 (0603)				CR21 (0805)				CR32 (1206)			
L	1.00 ± 0.05		(.039 $\pm .002$)		1.60 ± 0.10		(.063 $\pm .004$)		2.00 ± 0.10		(.079 $\pm .004$)		3.10 ± 0.10		(.122 $\pm .004$)	
W	0.50 ± 0.05		(.020 $\pm .002$)		0.80 ± 0.15		(.031 $\pm .006$)		1.25 ± 0.15		(.049 $\pm .006$)		1.55 ± 0.15		(.061 $\pm .004$)	
T	0.35 ± 0.05		(.014 $\pm .002$)		0.50 ± 0.10		(.020 $\pm .004$)		0.55 ± 0.10		(.022 $\pm .004$)		0.55 ± 0.10		(.022 $\pm .002$)	
C	0.20 ± 0.15		(.008 $\pm .006$)		0.25 ± 0.20		(.010 $\pm .008$)		0.35 ± 0.20		(.014 $\pm .008$)		0.45 ± 0.20		(.018 $\pm .008$)	
D	0.20 ± 0.10		(.008 $\pm .004$)		0.20 ± 0.20		(.008 $\pm .008$)		0.40 ± 0.20		(.016 $\pm .008$)		0.45 ± 0.20		(.018 $\pm .008$)	

Temperature Coefficient of Resistance

Tolerance	CR05				CR10				CR21				CR32			
	F ($\pm 1\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)	F ($\pm 1\%$)	G ($\pm 2\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)	F ($\pm 1\%$)	G ($\pm 2\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)	F ($\pm 1\%$)	G ($\pm 2\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)	
Resistance Range	10 Ω 1M Ω	10 Ω 1M Ω	1M Ω 2.2M Ω	2.2 Ω 10 Ω	10 Ω 1M Ω	1M Ω 10M Ω	10 Ω 100 Ω	10 Ω 1M Ω	1M Ω 2.2 Ω	10 Ω 10 Ω	1M Ω 1M Ω	10 Ω 100 Ω	10 Ω 1M Ω	1M Ω 10M Ω	10 Ω 10 Ω	1M Ω 10M Ω
TCR (ppm/ $^{\circ}$ C)	± 100	± 250	-500 +300	-100 +600	± 250	-500 +300	± 100	± 200	-500 +300	-100 +600	± 200	-500 +300	± 100	± 200	-100 +300	-500 +300

Tolerance	CR21								CR32								
	D ($\pm 0.5\%$)	F ($\pm 1\%$)	G ($\pm 2\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)	D ($\pm 0.5\%$)	F ($\pm 1\%$)	G ($\pm 2\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)	D ($\pm 0.5\%$)	F ($\pm 1\%$)	G ($\pm 2\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)		
Resistance Range	10 Ω 1M Ω	10 Ω 100M Ω	100 Ω 1M Ω	10 Ω 2.2M Ω	10 Ω 10 Ω	10 Ω 1M Ω	10 Ω 10M Ω	10 Ω 1.0 Ω	10 Ω 10 Ω	1M Ω 10M Ω	10 Ω 100 Ω	10 Ω 1M Ω	10 Ω 10M Ω	10 Ω 1.0 Ω	1M Ω 10M Ω	10 Ω 10 Ω	1M Ω 10M Ω
TCR (ppm/ $^{\circ}$ C)	± 100	± 100	± 100	± 200	-500 +300	-100 +600	± 200	-500 +1000	-100 +600	± 200	-500 +300	± 100	± 100	± 200	-500 +300	± 200	-100 +1000

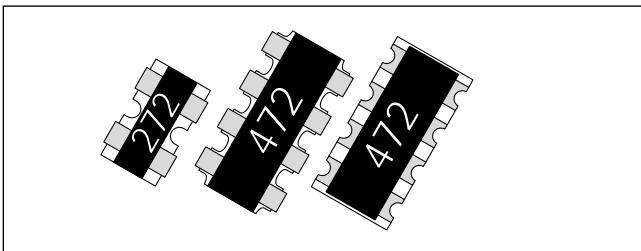
Chip Resistor Ratings

Spec \ Style	CR05 (0402)				CR10 (0603)				CR21 (0805)				CR32 (1206)				
Power	0.603 (1/16) W				0.603 (1/10) W				0.100 (1/8) W				0.125 (1/4) W				
Voltage	50V				50V				100V				200V				
Tolerance	F ($\pm 1\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)	F ($\pm 1\%$)	G ($\pm 2\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)	D ($\pm 0.5\%$)	F ($\pm 1\%$)	G ($\pm 2\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)	D ($\pm 0.5\%$)	F ($\pm 1\%$)	G ($\pm 2\%$)	J ($\pm 5\%$)	K ($\pm 10\%$)
Value Range	10 Ω 1M Ω	10 Ω 2.2 M Ω	2.2 Ω 10M Ω	10 Ω 1M Ω	10 Ω 2.2M Ω	1.0 Ω 10M Ω	10 Ω 1M Ω	10 Ω 10M Ω	10 Ω 1M Ω	1.0 Ω 2.2M Ω	10 Ω 10M Ω	1.0 Ω 1M Ω	10 Ω 10M Ω	10 Ω 1M Ω	1.0 Ω 2.2M Ω	10 Ω 10M Ω	1.0 Ω 10M Ω
Working Temperature	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$																

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #095. Visit our website <http://www.avxcorp.com>



Thick Film Chip Resistor Arrays (2, 4 & 8 Resistors)



Dimensions: millimeters (inches)

	2 elements CRB1A2E series	2 elements CRC1A2E series
Style		
W	1.60 ± 0.15 (.063±.006)	1.60 ± 0.15 (.063±.006)
L	1.60 ± 0.15 (.063±.006)	1.60 ± 0.15 (.063±.006)
c	0.30 ± 0.20 (.012±.008)	0.30 ± 0.20 (.012±.008)
d	0.40 ± 0.15 (.016±.006)	0.20 ± 0.15 (.008±.006)
t	0.60 ± 0.10 (.024±.004)	0.50 ± 0.10 (.020±.004)
p	0.8 typ (.031)	0.8 typ (.031)
e1	0.50 ± 0.15 (.020±.006)	0.60 ± 0.15 (.024±.006)
e2	—	0.60 ± 0.15 (.024±.006)

Please contact Kyocera for specifications not covered in this catalog.

	4 elements CRA3A4E series	4 elements CRB2A4E series	4 elements CRB3A4E series	4 elements CRC3A4E series
Style				
W	1.60 ± 0.15 (.063±.006)	1.0 ± 0.10 (.039±.004)	1.60 ± 0.15 (.063±.006)	1.60 ± 0.15 (.063±.006)
L	3.20 ± 0.15 (.126±.006)	2.0 ± 0.10 (.079±.004)	3.20 ± 0.15 (.126±.006)	3.20 ± 0.15 (.126±.006)
c	0.30 ± 0.20 (.012±.008)	0.20 ± 0.15 (.008±.006)	0.30 ± 0.20 (.012±.008)	0.30 ± 0.20 (.012±.008)
d	0.20 ± 0.15 (.008±.006)	0.25 ± 0.15 (.010±.006)	0.40 ± 0.15 (.016±.006)	0.20 ± 0.15 (.008±.006)
t	0.50 ± 0.10 (.020±.004)	0.40 ± 0.10 (.016±.004)	0.60 ± 0.10 (.024±.004)	0.50 ± 0.10 (.020±.004)
p	0.8 typ (.031)	0.50 ± 0.05 (.020±.002)	0.8 typ (.031)	0.8 typ (.031)
e1	0.45 ± 0.15 (.018±.006)	0.25 typ (.010)	—	0.45 ± 0.15 (.018±.006)
e2	—	—	0.50 ± 0.15 (.020±.006)	0.60 ± 0.15 (.024±.006)
b	—	0.15 typ (.006)	—	—

Specifications

	8 elements RNA4A8E series
Style	
W	2.10 ± 0.15 (.083±.008)
L	4.00 ± 0.15 (.157±.006)
T	0.60 ± 0.10 (.024±.004)
A1	0.50 ± 0.10 (.020±.004)
A2	0.40 ± 0.10 (.016±.004)
B1	0.25 ± 0.15 (.010±.006)
B2	0.40 ± 0.15 (.016±.004)
E1	0.50 ± 0.10 (.020±.004)
E2	0.50 ± 0.10 (.020±.004)
F1	0.30 ± 0.15 (.012±.006)
F2	0.35 ± 0.15 (.014±.006)
D	0.30 typ. (.012)
P	0.80 typ. (.031)

Chip Resistor Arrays Ratings	CRB2A/CRB1A/CRC1A CRA3A/CRB3A/CRC3A Series	RNA4A Series
Rated power (70°C)	1/16W (0.0625W / element)	1/16W (0.0625W / element)
Maximum working voltage	50V	25V
Maximum over-load voltage	100V	50V
Nominal resistance value range	$10\Omega \sim 2.2M\Omega$	$10\Omega \sim 220K\Omega$
Resistance tolerance	J: $\pm 5\%$	J: $\pm 5\%$
Working temperature range	-55°C ~ +125°C	-55°C ~ +125°C
TCR	-250 ~ +250 ppm/°C	-250 ~ +250 ppm/°C

Chip Jumper Arrays

Item	Rating
Rated current	1A
Conductive resistance value	50 MΩ max.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #096. Visit our website <http://www.avxcorp.com>

HOW TO ORDER

CRA3A 3E 103 J T

① Style & Size:

CRB1A/CRC1A

CRA3A/CRB3A/CRC3A

CRB2A

RNA4A

Note: change CR to CJ for 0 ohm jumpers

② Number of Resistors:

2E = Two resistors

4E = Four resistors

8E = Eight resistors

③ Resistance Code:

Standard decade values

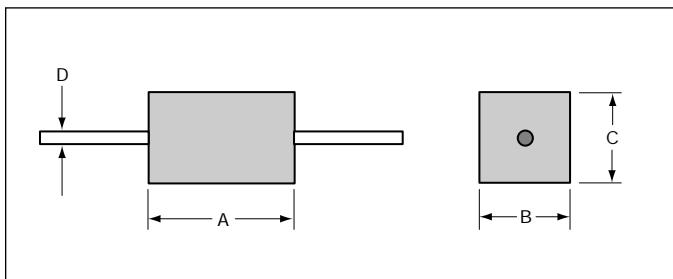
④ Resistance Tolerance:

K = $\pm 10\%$, J = $\pm 5\%$

⑤ Packaging:

B = Bulk (1,000 pcs/bag)

T = Taping (5,000 pcs/reel)

Mini-Resistor Axial Leads**Dimensions:** millimeters (inches)

		Tolerance
A	1.91 (0.075)	$\pm .005$
B	0.91 (0.036)	$\pm .005$
C	0.91 (0.036)	$\pm .005$
D	0.20 (0.008)	$\pm .001$

Temperature Coefficient of Resistance

	HR01				
Tolerance	J ($\pm 5\%$)		K ($\pm 10\%$)		
Resistance Range	10Ω ↓ 1MΩ	1MΩ ↓ 2.2MΩ	2.2Ω ↓ 10Ω	10Ω ↓ 1MΩ	1MΩ ↓ 10MΩ
TCR (ppm/°C)	± 250	-500 ↓ +300	-100 ↓ +600	± 250	-500 ↓ +300

HOW TO ORDER**HR01 104 J****① AVX Style****② Resistance:**

First two digits are the significant figures of resistance.

The third digit indicates the number of additional zeros.

Example: 2R2 = 2.2Ω

100 = 10Ω

104 = 100,000Ω

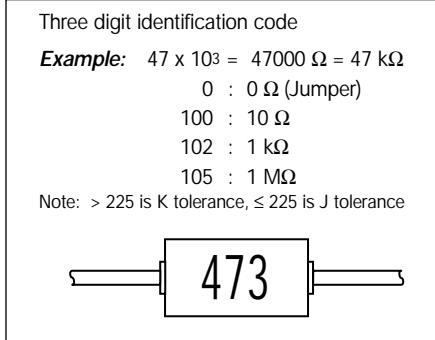
106 = 10,000,000Ω

③ Tolerance: J= $\pm 5\%$, K= $\pm 10\%$ **Resistance Ranges**

HR01		
Tolerance	J ($\pm 5\%$)	K ($\pm 10\%$)
Value Range	10Ω to 2.2MΩ	2.2Ω to 10MΩ

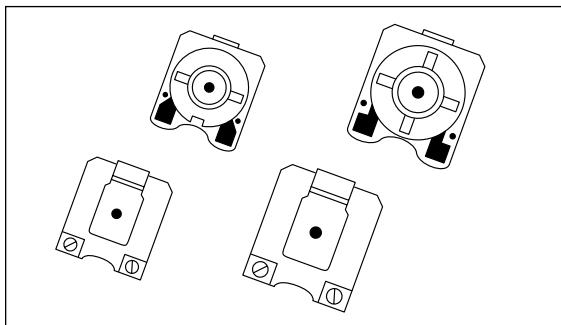
Resistor Ratings for HR01

Power	0.063 (1/16) W
Voltage	50V max.
Working	-55°C to +70°C no derating +70°C to +125°C with derating

Marking

Thick Film Chip Trimmer Potentiometers

CVR-32 / CVR-42 / CVR-43 Series



Standard Values

Style	Full Resistance Value (Ω, kΩ, MΩ)	Code	
		(a)	(b)
CVR-□□□-101	100Ω	1	1
CVR-□□□-151	150Ω	A	1
CVR-□□□-201	200Ω	2	1
CVR-□□□-221	220Ω		1
CVR-□□□-301	300Ω	3	1
CVR-□□□-331	330Ω		
CVR-□□□-471	470Ω	4	1
CVR-□□□-501	500Ω	5	1
CVR-□□□-681	680Ω	6	1
CVR-□□□-102	1.0kΩ	1	2
CVR-□□□-152	1.5kΩ	A	2
CVR-□□□-202	2.0kΩ	2	2
CVR-□□□-222	2.2kΩ		
CVR-□□□-302	3.0kΩ	3	2
CVR-□□□-332	3.3kΩ		
CVR-□□□-472	4.7kΩ	4	2
CVR-□□□-502	5.0kΩ	5	2
CVR-□□□-682	6.8kΩ	6	2
CVR-□□□-103	10kΩ	1	3
CVR-□□□-153	15kΩ	A	3
CVR-□□□-203	20kΩ	2	3
CVR-□□□-223	22kΩ		
CVR-□□□-303	30kΩ	3	3
CVR-□□□-333	33kΩ		
CVR-□□□-473	47kΩ	4	3
CVR-□□□-503	50kΩ	5	3
CVR-□□□-683	68kΩ	6	3
CVR-□□□-104	100kΩ	1	4
CVR-□□□-154	150kΩ	A	4
CVR-□□□-204	200kΩ	2	4
CVR-□□□-224	220kΩ		
CVR-□□□-304	300kΩ	3	4
CVR-□□□-334	330kΩ		
CVR-□□□-474	470kΩ	4	4
CVR-□□□-504	500kΩ	5	4
CVR-□□□-684	680kΩ	6	4
CVR-□□□-105	1.0MΩ	1	5
CVR-□□□-155	1.5MΩ	A	5
CVR-□□□-205	2.0MΩ	2	5
CVR-□□□-225	2.2MΩ		

HOW TO ORDER

CVR 4 3 C - 223 S W 1 □
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① **Chip Trimmer Potentiometer**

② **Size:** 4 = 4mm, 3 = 3mm

③ **Terminal Number:**

2 = 2 terminals

3 = 3 terminals (except for CVR-3)

④ **Circuit Type:**

A = Voltage adjustment

C = Current adjustment (except for CVR-3)

⑤ **Nominal Resistance Value:**

3 digits (2 significant digits and 1 number of zeros)

⑥ **Adjustment Method:**

S = Standard

G = Automatic

R = Bottom (CVR-43 only)

⑦ **Packaging:**

B = Bulk

W = Taping (W direction)

X = Taping (X direction) option

⑧ **Standard Quantity per Package:**

CVR42, 43: 1 = 1,000 pcs, 5 = 5,000 pcs

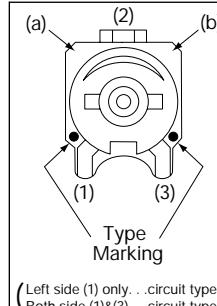
CVR32: 2 = 2,000 pcs, 5 = 5,000 pcs, 0 = 10,000 pcs

⑨ **Others**

Rating

Specifications	Rating	
	CVR-4 Series	CVR-3 Series
Rated Power	0.2W (70°C)	0.1W (70°C)
Rated Voltage	100V	50V
Resistance Value	100Ω~2.2MΩ	100Ω~2.2MΩ
Resistance Tolerance	±30%	±30%
Resistance Change Linearity	Straight line "B"	Straight line "B"
Rotation Life	(20 rotations) ±15%	(20 rotations) ±15%
Torque	20~200g•cm	20~200g•cm
Rotation Angle	270°±20°	270°±20°
Operating Temp	-40°C~+100°C	-40°C~+100°C
T.C.R.	±250 ppm/°C	±250 ppm/°C

Code



Code (a)		Code (b)	
(The first two significant figures)		(10 logarithmic multiplier)	
Sign	Value	Sign	Value
1	10	1	10 ¹
A	15	2	10 ²
2	20, 22	3	10 ³
3	30, 33	4	10 ⁴
4	47	5	10 ⁵
5	50		
6	68		

Example (a) 4 (b) 3 \Rightarrow 47 x 10³ = 47 kΩ

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #098. Visit our website <http://www.avxcorp.com>



Thick Film Chip Trimmer Potentiometers

AVX

CVR-32 / CVR-42 / CVR-43 Series

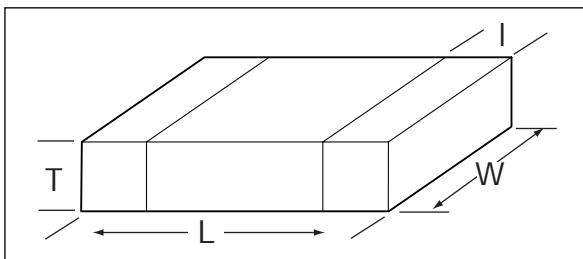
Dimensions:

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #099. Visit our website <http://www.avxcorp.com>

AVX

Transient Voltage Suppressors

TransGuard® Surface Mount



HOW TO ORDER

V C 1206 05 D 150 R
 ① ② ③ ④ ⑤ ⑥ ⑦

① Product Designator: V = Varistor (TransGuard®)

② Case Designator: C = Chip

③ Case Size Designator

④ Working Voltage:

Where: 03 = 3.3VDC; 14 = 14.0VDC; 30 = 30.0VDC;
 05 = 5.6VDC; 18 = 18.0VDC; 48 = 48.0VDC;
 09 = 9.0VDC; 26 = 26.0VDC; 60 = 60.0VDC

⑤ Energy:

Where: A = 0.1J; D = 0.4J; G = 0.9J; K = 2.0J;
 B = 0.2J; E = 0.6J; H = 1.2J; V = 0.02J;
 C = 0.3J; F = 0.7J; J = 1.5J; X = 0.05J

⑥ Clamping Voltage:

Where: 100 = 10.0V; 200 = 20.0V; 560 = 56.0V;
 101 = 100.0V; 300 = 30.0V; 580 = 58.0V;
 121 = 120.0V; 390 = 39.0V; 620 = 62.0V;
 150 = 15.5V; 400 = 40.0V; 650 = 65.0V;

⑦ Standard Packaging
(Pcs/Reel):

Style	D	R	T
VC0402	—	4,000	10,000
VC0603	1,000	4,000	10,000
VC0805	1,000	4,000	10,000
VC1206	1,000	4,000	10,000
VC1210	1,000	2,000	10,000

Voltage and Dimensions: millimeters (inches)

Case Size	0402	0603	0805	1206	1210
Voltages	5.6, 9.0, 14.0 or 18VDC	3.3, 5.6, 9.0, 14, 18, 26 or 30VDC	3.3, 5.6, 9, 12, 14, 18, 26 or 30VDC	3.3, 5.6, 14, 18, 26, 30 or 48VDC	18, 26, 30, 48 or 60VDC
Actual Size	—	—	—	—	—
Length (L)	1.00±0.10 (.040±.004)	1.6±0.15 (.063±.006)	2.01±0.2 (0.79±.008)	3.20±0.2 (.126±.008)	3.20±0.6 (.126±.008)
Width (W)	.50±0.10 (.020±.004)	0.8±0.15 (.032±.006)	1.25±0.2 (0.049±.008)	1.60±0.2 (.063±.008)	2.49±0.2 (.098±.008)
Thickness (T)	.60 max. (.024)	0.9 max. (.035)	1.02 max. (.040)	1.70 max. (.067)	1.70 max. (.067)
Land Length (I)	-	-	0.71 max. (.028)	0.71 max. (.028)	0.71 max. (.028)
Termination Band Width	.25±0.15 (.010±.006)	.035±0.15 (.014±.006)	-	-	-
Termination Separation	.30 (0.12) min.	0.7 (.028) min.	-	-	-
Termination Finish*	Pt/Pd/Ag	Pt/Pd/Ag	Pt/Pd/Ag	Pt/Pd/Ag	Pt/Pd/Ag

*For Ni terminations contact factory.

0402 Surface Mount

AVX Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance
Symbol	V_{WM}	V_B	V_C	I_{peak}	E_{trans}	C	L
Units	Volts (max.)	Volts	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	nH (typ.)
Test Condition	<50µA	1mA DC	8/20µS†	8/20µS	10/1000µS	0.5Vrms @: 1MHz	di/dt = 100mA/nS
VC040205X150	5.6	7.6 ~ 9.3	15.5	20	0.05	360	<1
VC040209X200	9.0	11.0 ~ 14.0	20.0	20	0.05	230	<1
VC040214X300	14.0	16.5 ~ 20.3	30.0	20	0.05	120	<1
VC040218X400	18.0	22.9 ~ 28.0	40.0	20	0.05	90	<1

0603 Surface Mount

AVX Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance
Symbol	V_{WM}	V_B	V_C	I_{peak}	E_{trans}	C	L
Units	Volts (max.)	Volts	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	nH (typ.)
Test Condition	<50µA	1mA DC	8/20µS†	8/20µS	10/1000µS	0.5Vrms @: 1kHz 1MHz	di/dt = 100mA/nS
VC060303A100	3.3	4.1 ~ 6.0	10	30	0.1	1800	1230
VC060305A150	5.6	7.6 ~ 9.3	15.5	30	0.1	1000	825
VC060309A200	9.0	11.0 ~ 14.0	20	30	0.1	650	550
VC060314A300	14.0	16.5 ~ 20.3	30	30	0.1	500	425
VC060318A400	18.0	22.9 ~ 28.0	40	30	0.1	275	225
VC060326A580	26.0	31.0 ~ 38.0	58	30	0.1	200	160
VC060330A650	30.0	37.0 ~ 46.0	65	30	0.1	175	150

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #100.
 Visit our website <http://www.avxcorp.com>

Transient Voltage Suppressors



TransGuard® Surface Mount (continued from pg. 100)

0805 Surface Mount

AVX Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance	
Symbol	V_{WM}	V_B	V_C	I_{peak}	E_{trans}	C	L	
Units	Volts (max.)	Volts	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	nH (typ.)	
Test Condition	<50µA	1mA DC	8/20µS†	8/20µs	10/1000µS	0.5Vrms @:	di/dt = 100mA/nS	
						1kHz		
VC080503A100	3.3	4.1 ~ 6.0	10	40	0.1	1300	930	<1.5
VC080503C100	3.3	3.7 ~ 5.6	10	120	0.3	5500	4000	1.5
VC080505A150	5.6	7.6 ~ 9.3	15.5	40	0.1	1250	860	<1.5
VC080505C150	5.6	7.1 ~ 8.7	15.5	120	0.3	3500	2400	1.5
VC080509A200	9	11.0 ~ 14.0	20	40	0.1	780	585	<1.5
VC080512A250	12	14.0 ~ 18.3	25	40	0.1	525	400	<1.5
VC080514A300	14	16.5 ~ 20.3	30	40	0.1	375	280	<1.5
VC080514C300	14	15.9 ~ 19.4	30	120	0.3	1100	820	1.5
VC080518A400	18	22.9 ~ 28.0	40	30	0.1	350	275	<1.5
VC080518C400	18	22.5 ~ 27.5	40	100	0.3	650	500	1.5
VC080526A580	26	31.0 ~ 37.9	58	30	0.1	140	110	<1.5
VC080526C580	26	30.5 ~ 37.3	58	100	0.3	250	190	1.5
VC080530A650	30	37.0 ~ 46.0	65	30	0.1	100	80	<1.5

1206 Surface Mount

AVX Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance	
Symbol	V_{WM}	V_B	V_C	I_{peak}	E_{trans}	C	L	
Units	Volts (max.)	Volts	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	nH (typ.)	
Test Condition	<50µA	1mA DC	8/20µS†	8/20µs	10/1000µS	0.5Vrms @:	di/dt = 100mA/nS	
						1kHz		
VC120603A100	3.3	4.1 ~ 6.0	10	40	0.1	2000	1500	<1.7
VC120603D100	3.3	3.7 ~ 5.6	10	150	0.4	4700	3800	1.7
VC120605A150	5.6	7.6 ~ 9.3	15.5	40	0.1	1200	870	<1.7
VC120605D150	5.6	7.1 ~ 8.7	15.5	150	0.4	3000	2300	1.7
VC120614A300	14	16.5 ~ 20.3	30	40	0.1	600	500	<1.7
VC120614D300	14	15.9 ~ 19.4	30	150	0.4	1200	900	1.7
VC120618A400	18	22.9 ~ 28.0	40	30	0.1	350	270	<1.7
VC120618D400	18	22.5 ~ 27.5	40	150	0.4	800	635	1.7
VC120626D580	26	30.5 ~ 37.3	58	120	0.4	550	450	1.7
VC120630D650	30	36.0 ~ 45.0	65	120	0.4	500	400	1.7
VC120648D101	48	56.0 ~ 68.0	100	100	0.4	225	185	1.7

1210 Surface Mount

AVX Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance	
Symbol	V_{WM}	V_B	V_C	I_{peak}	E_{trans}	C	L	
Units	Volts (max.)	Volts	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	nH (typ.)	
Test Condition	<50µA	1mA DC	8/20µS†	8/20µs	10/1000µS	0.5Vrms @:	di/dt = 100mA/nS	
						1kHz		
VC121018J390	18	21.5 ~ 26.5	39	500	1.5	3100	2400	2.0
VC121026H560	26	29.7 ~ 36.3	56	300	1.2	2150	1675	2.0
VC121030G620	30	35.0 ~ 43.0	62	220	0.9	1900	1530	2.0
VC121030H620	30	35.0 ~ 43.0	62	280	1.2	1975	1575	2.0
VC121048G101	48	54.5 ~ 66.5	100	220	0.9	500	430	2.0
VC121048H101	48	54.5 ~ 66.5	100	250	1.2	525	450	2.0
VC121060J121	60	67.0 ~ 83.0	120	250	1.5	450	375	2.0

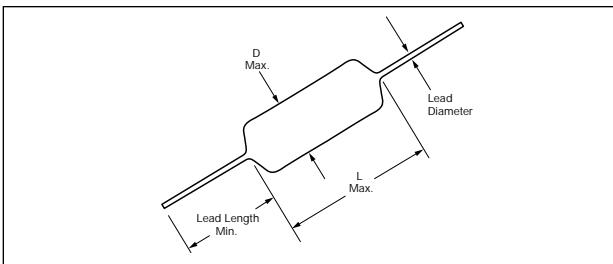
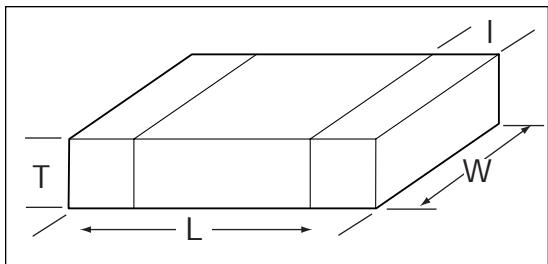
See note page 103

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #101. Visit our website <http://www.avxcorp.com>



Transient Voltage Suppressors

StaticGuard – ESD Protection for CMOS Systems



HOW TO ORDER

V C 08 LC 18 A 500 R
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① AVX Style: V=Varistor (StaticGuard)

② Case Size: C=Chip

③ Case Size Designator:

CODE	SIZE	LENGTH	WIDTH
04=0402	1.00±0.1mm (.039"±.004")	0.5±0.1mm (.020"±.004")	
06=0603	1.60±0.15mm (.063"±.006")	0.8±0.15mm (.032"±.006")	
08=0805	2.01±0.2mm (.079"±.008")	1.25±0.2mm (.049"±.008")	
12=1206	3.20±0.2mm (.126"±.008")	1.60±0.2mm (.063"±.008")	

④ Low Capacitance Design

⑤ Working Voltage

⑥ Energy Rating

⑦ Clamping Voltage

⑧ Packaging (Pcs/Reel):

D = 1,000 pieces per reel

R = 4,000 pieces per reel

T = 10,000 pieces per reel

HOW TO ORDER

V A 10 LC 18 A 500 R
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① AVX Style: V=Varistor (StaticGuard)

② Case Size: A=Axial

③ Case Size Designator:

CODE	LENGTH	WIDTH
10	4.32mm max. (.170")	2.54mm max. (.100")

④ Low Capacitance Design

⑤ Working Voltage

⑥ Energy Rating

⑦ Clamping Voltage

⑧ Packaging (Pcs/Reel):

D = 1,000 pieces per reel

R = 3,000 pieces per reel

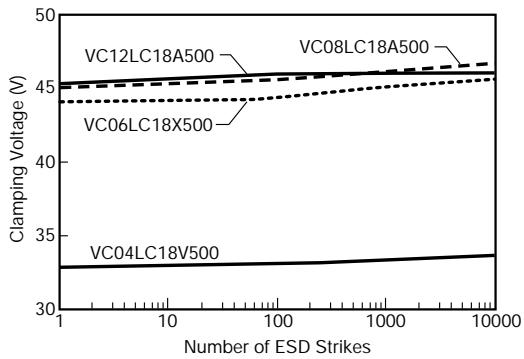
T = 7,500 pieces per reel

AVX Part Number	Working Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance
Symbol	V_{WM}	V_C	I_{peak}	E_{trans}	C	I_L
Units	Volts (max.)	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	nH (typ.)
Test Condition	<50µA	<50V	8/20µS	8/1000µS	0.5VRms @: 1MHz	di/dt = 100 mA/ns
VC04LC18V500	≤18V	≤50V	15	0.02	40	<1.0
VC06LC18X500	18V	50V	20	0.05	75	<1.0
VC08LC18A500	18V	50V	30	0.1	100	<1.0
VC12LC18A500	18V	50V	30	0.1	200	<1.0
VA10LC18A500	18V	50V	30	0.1	200	<1.0

See note page 105

StaticGuard ESD RESPONSE

IEC 1000-4-2 (8Kv Contact Discharge)



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #102. Visit our website <http://www.avxcorp.com>



AntennaGuard 0402/0603

ESD Protection for Antennas



Catalog Part Numbers/Electrical Values

AVX Part Number	Working Voltage $I_L < 100\text{nA}$	Capacitance Value 1 MHz 0.5V RMS	Cap Tolerance	Inductance (Typical) $\frac{di}{dt} = 0.1 \text{ A/nS}$
VC04AG183R0YA1	18 VDC	3 pF	Maximum	< 1.0
VC06AG183R0YA1	18 VDC	3 pF	Maximum	< 1.0
VC06AG18120YA1	18 VDC	12 pF	Maximum	< 1.0

Physical Dimensions

millimeters (inches)

	0402	0603
Length	1.0 (0.039") ± 0.1 (0.004")	1.6 (0.063") ± 0.15 (0.006")
Width	0.5 (0.020") ± 0.1 (0.004")	0.8 (0.031") ± 0.15 (0.006")
Thickness	0.6 Max. (0.024")	0.9 Max. (0.035")
Termination Band Width	0.25 (0.010") ± 0.15 (0.006")	0.35 (0.014") ± 0.15 (0.006")
Termination Separation	0.3 Min. (0.012")	0.7 Min. (0.028")

HOW TO ORDER

VC 04 AG 18 3R0 Y A 1 X X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Varistor Chip

② Chip Size: 04 = 0402, 06 = 0603

③ Varistor Series: AntennaGuard

④ Working Voltage: (DC)

⑤ Capacitance: 3pF = 3R0, 12pF = 120

⑥ Non-Std. Cap Tolerance: (Maximum)

⑦ Not Applicable

⑧ Termination: 1 = PtPdAg

T = Plated Ni, and Solder

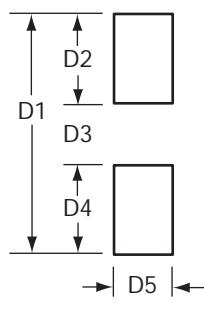
⑨ Reel Size: 1 = 7", 3 = 10"

⑩ Reel Quantity: A = 4,000 or 10,000

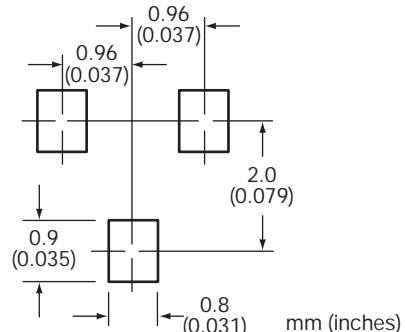
(i.e., 1A = 4,000, 3A = 10,000)

millimeters (inches)

Suppression	Pad Dimensions					
	Device	D1	D2	D3	D4	D5
0402 TransGuard	1.79 (0.070)	0.51 (0.020)	0.51 (0.020)	0.51 (0.020)	0.51 (0.020)	
0603 TransGuard	2.29 (0.090)	0.76 (0.030)	0.76 (0.030)	0.76 (0.030)	0.76 (0.030)	
SOT23 Diode	See Below					



0402/0603 IR Solder Pad Layout



SOT23 - Solder Pad Layout

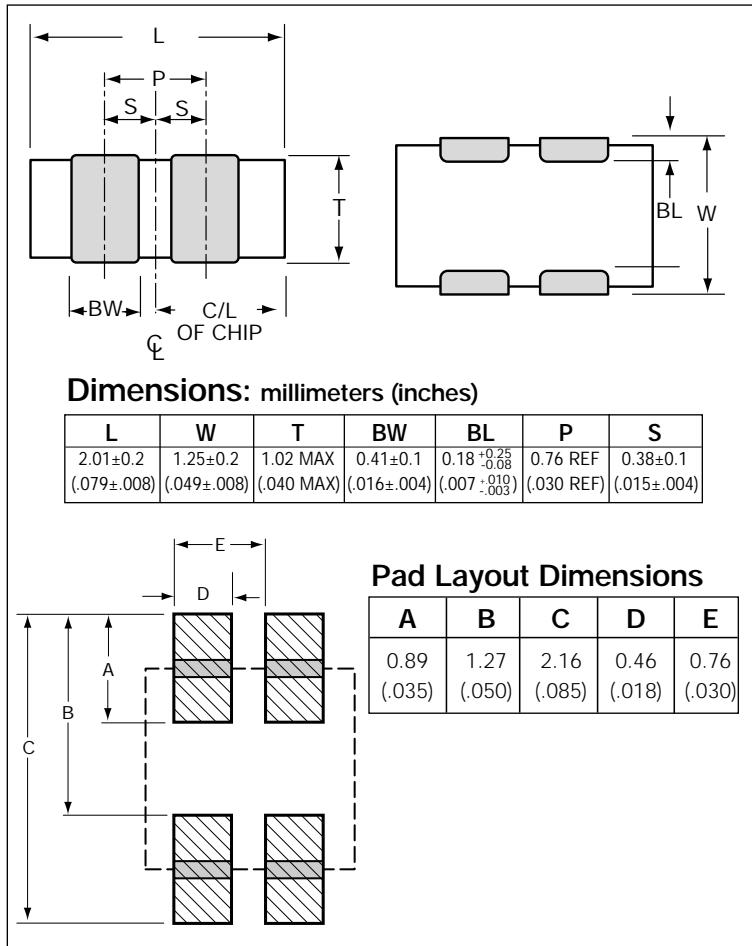
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #103. Visit our website <http://www.avxcorp.com>



Transient Voltage Suppressors

MultiGuard 2-Element TVS Arrays - 0508

ESD Protection for CMOS and Bi-Polar Systems



HOW TO ORDER

MG 05 2 S 14 A 300 T
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① MultiGuard
- ② Chip Size: 05=0508
- ③ Configuration: 2=2 Elements
- ④ Style: S=Standard Construction
L=Low Capacitance

- ⑤ Working Voltage:
05=5.6V 14=14.0V
9=9.0V 18=18.0V

- ⑥ Energy Rating:
A=0.10 Joules X=0.05 Joules

- ⑦ Clamping Voltage:
150=15.5V 400=40.0V
200=20.0V 500=50.0V
300=30.0V

- ⑧ Packaging (Pcs/Reel):
D=1,000 T=10,000
R=4,000

Electrical Characteristics Per Element

AVX Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance
Symbol	V_{WM}	V_B	V_C	I_{peak}	E_{trans}	C	L
Units	Volts (max.)	Volts	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	nH (typ.)
Test Condition	<50µA	1mA DC	8/20µS†	8/20µs	10/1000µS	0.5VRMS @: 1MHz	di/dt = 100mA/nS
MG052S05A150	5.6	6.8 - 9.3	15.5	30	0.1	825	<1.0
MG052S09A200	9.0	10.0 - 14.0	20	30	0.1	550	<1.0
MG052S14A300	14.0	14.7 - 20.3	30	30	0.1	425	<1.0
MG052S18A400	18.0	20.4 - 28.0	40	30	0.1	225	<1.0
MG052L18X500	≤18.0	N/A	50	20	0.05	<75	<1.0

*Test Condition = <25µA

V_{WM} —Maximum steady-state DC operating voltage the varistor can maintain and not exceed 50µA leakage current

V_B —Voltage across the device measured at 1mA DC current

V_C —Maximum peak voltage across the varistor measured at a specified pulse current and waveform

†Transient Energy Rating Pulse Current & Waveform
 .1 Joule 2A 8/20µS
 .05 Joules 1A 8/20µS

I_{peak} —Maximum peak current which may be applied with the specified waveform without device failure

E_{trans} —Maximum energy which may be dissipated with the specified waveform without device failure

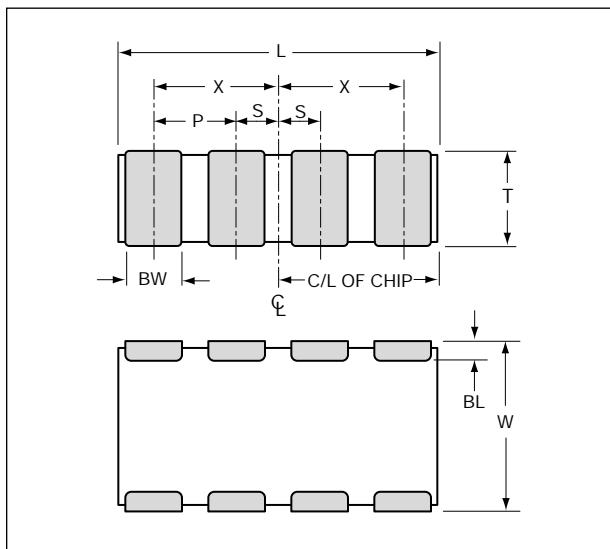
C—Device capacitance measured with zero volt bias at 0.5VRMS and 1MHz

L—Device inductance measured with a current edge rate of 100mA/nS

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #104. Visit our website <http://www.avxcorp.com>

Transient Voltage Suppressors

MultiGuard 4-Element TVS Array - 0612



HOW TO ORDER

MG 06 4 S 14 A 300 T
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① MultiGuard
- ② Chip Size: 06=0612
- ③ Configuration: 4=4 Elements
- ④ Style: S=Standard Construction
L=Low Capacitance

⑤ Working Voltage:

05=5.6V	14=14.0V
09=9.0V	18=18.0V

⑥ Energy Rating:

A=0.10 Joules
X=0.05 Joules

⑦ Clamping Voltage:

150=15.5V	400=40.0V
200=20.0V	500=50.0V
300=30.0V	

⑧ Packaging (Pcs/Reel):

D=1,000
R=4,000
T=10,000

Dimensions: millimeters (inches)

L	W	T	BW	BL	P	X	S
3.20±0.2 (.126±.008)	1.60±0.2 (.063±.008)	1.22 MAX (.048 MAX)	0.41±0.1 (.016±.004)	0.18 ^{.025} _{.008} (.007 ^{.010} _{.003})	0.76 REF (.030 REF)	1.14±0.1 (.045±.004)	0.38±0.1 (.015±.004)

Electrical Characteristics Per Element

AVX Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance
Symbol	V _{WM}	V _C	V _C	I _{peak}	E _{trans}	C	I _L
Units	Volts (max.)	Volts	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	μ Amp (max.)
Test Condition	<50μA	1nA DC	8/20μS†	8/20μs	10/1000μS	0.5Vrms @: 1MHz	@V _{WM}
MG064S05A150	5.6	7.6 - 9.3	15.5	30	0.1	825	<1.0
MG064S09A200	9.0	11.0 - 14.0	20	30	0.1	550	<1.0
MG064S14A300	14.0	16.5 - 20.3	30	30	0.1	425	<1.0
MG064S18A400	18.0	22.9 - 28.0	40	30	0.1	220	<1.0
MG064L18X500	≤18.0*	N/A	50	30	0.05	<75	<1.0

*Test Condition = <25μA

V_{WM}—Maximum steady-state DC operating voltage the varistor can maintain and not exceed 50μA leakage current

V_B—Voltage across the device measured at 1mA DC current

V_C—Maximum peak voltage across the varistor measured at a specified pulse current and waveform

†Transient Energy Rating Pulse Current & Waveform
 .1 Joule 2A 8/20μS
 .05 Joules 1A 8/20μS

I_{peak}—Maximum peak current which may be applied with the specified waveform without device failure

E_{trans}—Maximum energy which may be dissipated with the specified waveform without device failure

C—Device capacitance measured with zero volt bias at 0.5Vrms and 1MHz

L—Device inductance measured with a current edge rate of 100mA/nS

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #105. Visit our website <http://www.avxcorp.com>

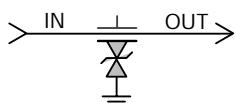


TransFeed 0805 Surface Mount Chip

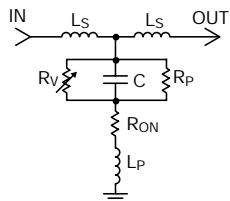


AVX-TVS Protection and EMI Suppression Within a Single SMT Component

Schematic Diagram



Electrical Model



HOW TO ORDER

V 2 F 1 0 5 A 1 5 0 Y 2 E D

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

① Varistor

② Chip Size: 2=0805

③ Feedthru Capacitor

④ Number of Elements

⑤ Voltage: 05=5.6V 14=14V
09=9.0V 18=18V

⑥ Energy Rating: X=0.05J
A=0.1J
C=0.3J

⑦ Varistor Clamping Voltage:
150=15.5V 500=50.0V
200=20.0V 400=40.0V
300=30.0V

⑧ Capacitance Tolerance:
8=+50/-20% Y=+100/-50%

⑨ DC Resistance:
1=.150 Ohms 4=.300 Ohms
2=.200 Ohms 6=.600 Ohms
3=.250 Ohms

⑩ Feedthru Current:
D=500 mA, E=750 mA, F=1.0 Amp

⑪ Packaging Code (Pcs/Reel):

D=1,000

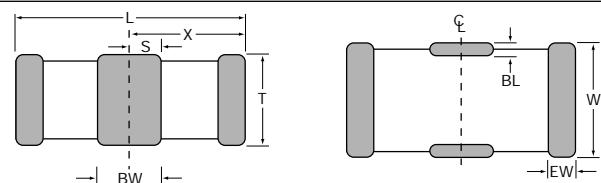
R=4,000

T=10,000

TransFeed Electrical Specifications

Part Number	Vwm	Vb	Vc 8x20µS @ 2A	I _p 8x20µS	I _{II}	E _t	Cap 1MHz	DCR Ohms	Feedthru Current
V2F105A150Y2E	5.6	7.6 - 9.3	15.5	30	<50 µA	0.1	800	0.200	750 mA
V2F109A200Y2E	9.0	11.0 - 14.0	20.0	30	<40 µA	0.1	575	0.200	750 mA
V2F114A300Y2E	14.0	16.5 - 20.3	30.0	30	<30 µA	0.1	300	0.200	750 mA
V2F118A400Y2E	18.0	22.9 - 28.0	40.0	30	<25 µA	0.1	200	0.200	750 mA
V2F118X500Y3D	<18.0	N/A	<50.0*	20	<10 µA	0.05	<100	0.250	500 mA
V2F105C150Y1F	5.6	7.1 - 8.7	15.5	120	<50 µA	0.3	2500	0.150	1 Amp
V2F109C200Y1F	9.0	10.5 - 13.5	20.0	120	<40 µA	0.3	1800	0.150	1 Amp
V2F114C300Y1F	14.0	15.9 - 19.4	30.0	120	<30 µA	0.3	900	0.150	1 Amp
V2F118C400Y1F	18.0	22.5 - 27.5	40.0	120	<25 µA	0.3	500	0.150	1 Amp

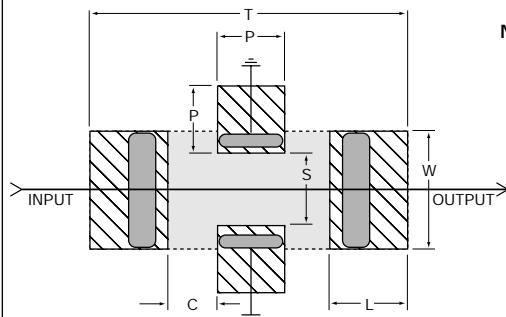
*Vc at 8x20µS @ 1A



Dimensions: millimeters (inches)

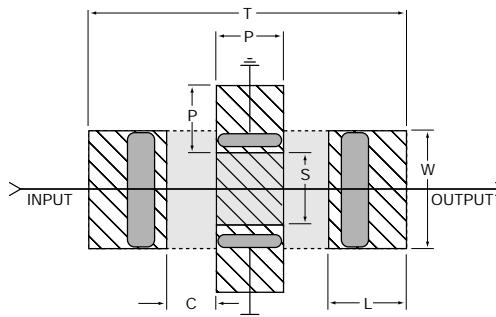
Size	L	W	T	BW	BL	EW	X	S
0805	2.01±0.20 (.079±.008)	1.25±0.20 (.049±.008)	0.76±0.08 (.030±.003)	0.46±0.10 (.018±.004)	0.18±0.25-0.08 (.007+.010-.003)	0.25±0.13 (.010±.005)	1.02±0.10 (.040±.004)	0.23±0.05 (.009±.002)

4 Pad Layout



Note: It is only necessary to ground one center terminal. However, AVX recommends that both side terminals be connected.

3 Pad Layout



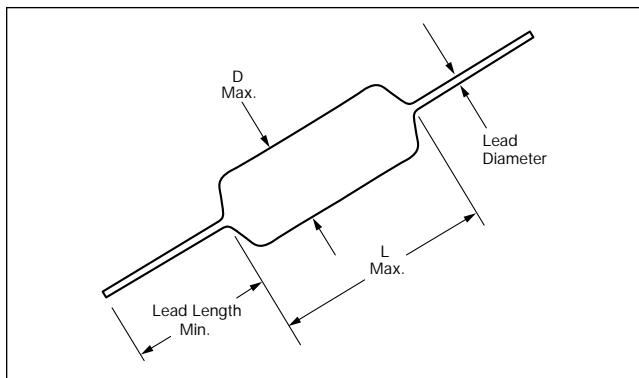
Recommended Solder Pad Layout (Typical Dimensions) millimeters (inches)

Size	T	P	S	W	L	C
0805	3.45 (0.136)	0.51 (0.020)	0.76 (0.030)	1.27 (0.050)	1.02 (0.040)	0.46 (0.018)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #106. Visit our website <http://www.avxcorp.com>

Transient Voltage Suppressors

TransGuard® Axial Lead



HOW TO ORDER

V A 1000 03 D 100 R
 ① ② ③ ④ ⑤ ⑥ ⑦

① **Product Designator:** V = Varistor (TransGuard®)

② **Case Designator:** A = Axial

③ **Case Size Designator**

④ **Working Voltage:**

Where: 03 = 3.3VDC; 26 = 26.0VDC;
 05 = 5.6VDC; 30 = 30.0VDC;
 14 = 14.0VDC; 48 = 48.0VDC;
 18 = 18.0VDC; 60 = 60.0VDC

⑤ **Energy:**

Where: A = 0.1J; D = 0.4J; G = 0.9J; K = 2.0J;
 B = 0.2J; E = 0.6J; H = 1.2J; V = 0.02J;
 C = 0.3J; F = 0.7J; J = 1.5J; X = 0.05J

⑥ **Clamping Voltage:**

Where: 100 = 10.0V; 300 = 30.0V;
 101 = 100.0V; 400 = 40.0V;
 121 = 120.V; 580 = 58.0V;
 150 = 15.5V; 650 = 65.0V2

⑦ **Standard Packaging (Pcs/Reel):**

Style	D	R	T
VA1000	1,000	3,000	7,500
VA2000	1,000	2,500	5,000

Axial Leaded Devices

AVX Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Transient Energy	Capacitance	Inductance
Symbol	V_{WM}	V_B	V_C	I_{peak}	E_{trans}	C	L
Units	Volts (max.)	Volts	Volts (max.)	Amp. (max.)	Joules (max.)	pF (typ.)	nH (typ.)
Test Condition	<50µA	1mA DC	8/20µS†	8/20µS	10/1000µS	0.5Vrms @: 1kHz 1MHz	di/dt = 100mA/nS
VA10003A100	3.3	4.1 ~ 6.0	10	40	0.1	1500	1100
VA10003D100	3.3	3.7 ~ 5.6	10	150	0.4	4700	3800
VA10005A150	5.6	7.6 ~ 9.3	15.5	40	0.1	1000	750
VA10005D150	5.6	7.1 ~ 8.7	15.5	150	0.4	2800	2150
VA100014A300	14	16.5 ~ 20.3	30	40	0.1	400	300
VA100014D300	14	15.9 ~ 19.4	30	150	0.4	1200	900
VA100018A400	18	22.9 ~ 28.0	40	40	0.1	350	270
VA100018D400	18	22.5 ~ 27.5	40	150	0.4	900	700
VA100026D580	26	30.5 ~ 37.3	58	120	0.4	700	550
VA100030D650	30	36.0 ~ 45.0	65	120	0.4	600	500
VA100048D101	48	56.0 ~ 68.0	100	100	0.4	200	165
VA200060K121	60	67.0 ~ 83.0	120	300	2.0	400	340

V_{WM} —Maximum steady-state DC operating voltage the varistor can maintain and not exceed 50µA leakage current

V_B —Voltage across the device measured at 1mA DC current

V_C —Maximum peak voltage across the varistor measured at a specified pulse current and waveform

†Transient Energy Rating Pulse Current & Waveform

.1 Joule	2A8/20µS
.2-.3 Joules	5A 8/20µS
≥.4 Joules	10A 8/20µS

I_{peak} —Maximum peak current which may be applied with the specified waveform without device failure

E_{trans} —Maximum energy which may be dissipated with the specific waveform without device failure

C—Device capacitance measured with zero volt bias at .5Vrms and 1kHz

L—Device inductance measured with a current edge rate of 100mA/nS

Dimensions: Millimeters (Inches)

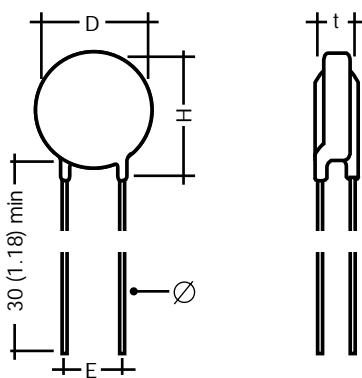
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #107. Visit our website <http://www.avxcorp.com>



Zinc Oxide Varistors



VE/VF Types – General Application (“M” Series)



Dimensions

millimeters (inches)

Type	Type	D		H max.	\varnothing +10% -0.05 (.002)	E $\pm 0.8 (.031)$
		Ceramic diameter	Maximum coated diameter			
VE07	VF05	5 (.196)	7 (.275)	10 (.394)	0.6 (.024)	5.08 (0.20)
VE09	VF07	7 (.275)	9 (.354)	12 (.472)	0.6 (.024)	5.08 (0.20)
VE13*	VF10*	10 (.393)	13* (.512)	16 (.630)	0.8* (.031)	7.62* (0.30)
VE17	VF14	14 (.551)	17 (.669)	20 (.787)	0.8 (.031)	7.62 (0.30)
VE24	VF20	20 (.787)	24 (.945)	27 (1.06)	0.8** (.031)	7.62 (0.30)

* VE13 / VF10: For models with $V_{RMS} \leq 320$ V

other version/suffixes available with:

E = 5.08 (0.20) Suffix:

\varnothing = 0.6 (.024) Bulk: HB

D = 12.5 (.492) max Tape: DA, DB, DC,
DD, DQ, ...

HOW TO ORDER

VE 09 M 0 0251 K DB
 ① ② ③ ④ ⑤ ⑥ ⑦

① Type Code:

VE = Selection by working voltage
 VF = Selection by breakdown voltage

② Size Code:

VE Series: 07, 09, 13, 17, 24
 VF Series: 05, 07, 10, 14, 20

③ Material Code:

M = Standard

④ Voltage Marking Code:

0 = VE Series
 1 = VF Series

⑤ Voltage Code:

VE Series: 1st digit: zero. 2nd & 3rd digit: 2 significant figures of working voltage. 4th digit: number of significant zeros to be added.

Example: 0750 = 75 V, 0301 = 300 V

VF Series: 1st, 2nd & 3rd digits: significant figures of breakdown voltage. 4th digit: number of significant zeros to be added.

Example: 2050 = 205 V

⑥ Tolerance Code:

K = $\pm 10\%$ (contact factory for $\pm 5\%$)

⑦ Packaging Code:

Please refer to fall catalog

“M” Series Range Capability

Dimensions: millimeters (inches)

Style	Operating Voltage Vrms	Breakdown Voltage 1mAdc	Clamping Voltage	Energy Absorption (J)	Max. Peak Current 1p (A)	Typical Capacitance pF@1kHz	Mean Power Dissipation (W)
VE07	14 min. to 300 max.	22 min. to 470 max.	43 min. to 775 max.	0.3 min. to 9.0 max.	100 min. to 400 max.	40 min. to 1050 max.	0.01 min. to 0.10 max.
VE09	14 min. to 420 max.	22 min. to 680 max.	43 min. to 1720 max.	0.9 min. to 25.0 max.	250 min. to 1200 max.	80 min. to 1900 max.	0.02 min. to 0.20 max.
VE13 VF10	14 min. to 625 max.	22 min. to 1000 max.	43 min. to 1650 max.	2.0 min. to 68.0 max.	500 min. to 2500 max.	74 min. to 4000 max.	0.05 min. to 0.40 max.
VE17 VF14	14 min. to 625 max.	22 min. to 1000 max.	43 min. to 1650 max.	4.0 min. to 130.0 max.	1000 min. to 4500 max.	165 min. to 4000 max.	0.10 min. to 0.60 max.
VE24 VF20	75 min. to 625 max.	120 min. to 1000 max.	200 min. to 1650 max.	40.0 min. to 230.0 max.	6500 max.	410 min. to 4200 max.	0.80 max.

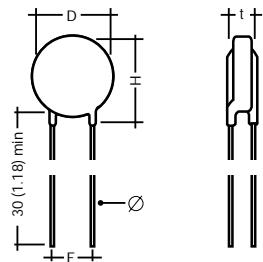
NB: VE Series - Allows ordering code to be built by specifying operating voltage.

VF Series - Allows ordering code to be built by specifying breakdown voltage.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #108. Visit our website <http://www.avxcorp.com>

Zinc Oxide Varistors

VE/VF Types for Heavy Duty Applications ("P" Series)



Dimensions millimeters (inches)

Type	Type	D		H max.	t max.	θ		E ± 0.8
		Ceramic diameter	Maximum coated diameter			+10%	-0.05 (.002)	
VE07	VF05	5 (.196)	7 (.275)	10 (.394)		0.6 (.024)	5.08 (0.20)	
VE09	VF07	7 (.275)	9 (.354)	12 (.472)	see table	0.6 (.024)	5.08 (0.20)	
VE13*	VF10*	10 (.393)	13* (.512)	16 (.630)		0.8* (.031)	7.62* (0.30)	
VE17	VF14	14 (.551)	17 (.669)	20 (.787)		0.8 (.031)	7.62 (0.30)	
VE24**	VF20**	20 (.787)	24 (.945)	27 (1.06)		0.8** (.031)	7.62 (0.30)	

* VE13 / VF10: For models with $V_{RMS} \leq 320$ V
other version/suffixes available with:
E = 5.08 (0.20) Suffix:
 \emptyset = 0.6 (.024) Bulk: HB
D = 12.5 (.492) max Tape: DA, DB, DC,
DD, DQ, ...

**VE24 / VF20: For lead diameter = 1.0 (.039),
please consult us.

Types		VE 07/09 - VF 05/07 (VE13 - VF10 320 V _{rms} upon request)					
Leads		Straight		Kinked (type 1)		Kinked (type 2)	
Dimensions							
		0.6 (.024)		0.6 (.024)		0.6 (.024)	
				5.08 (0.2)		5.08 (0.2)	
Packaging		AMMOPACK	REEL	AMMOPACK	REEL	AMMOPACK	REEL
H/Ho = 16 ± 0.5		DA(*)	DB(*)	DQ(*)	DR(*)	D7(*)	D5(*)
H/Ho = 18 -0/+2		DC(**)	DD(**)	DS	DT	D8	D6
Types		VE 13/17 - VF 10/14					
Leads		Straight		Kinked (type 1)		Kinked (type 2)	
Dimensions							
		0.8 (.031)		0.8 (.031)		0.8 (.031)	
				7.62 (0.3)		7.62 (0.3)	
Packaging		AMMOPACK	REEL	AMMOPACK	REEL	AMMOPACK	REEL
H/Ho = 16 ± 0.5		EA(*)	EN(*)	EC(**)	EF(**)	EQ(**)	ER(**)
H/Ho = 18 -0/+2		EB(**)	ED(**)	EG	EH	ES	ET

(*) DA, DB, EA, EN suffixes are not available for varistors with VRMS 300V and available only upon request. (**) Preferred versions according to IEC 286-2

"P" Series Range Capability Dimensions: millimeters (inches)

Style	Operating Voltage Vrms	Breakdown Voltage 1mAdc	Clamping Voltage	Energy Absorption (J)	Max. Peak Current 1p (A)	Typical Capacitance pF@1kHz	Mean Power Dissipation (W)
VE07	130 min. to 230 max.	205 min. to 360 max.	340 min. to 595 max.	8.5 min. to 16 max.	800	90 min. to 55 max.	0.01
VE09	130 min. to 230 max.	205 min. to 360 max.	340 min. to 595 max.	17.5 min. to 32 max.	1750	250 min. to 140 max.	0.02
VE13	130 min. to 230 max.	205 min. to 360 max.	340 min. to 595 max.	35 min. to 65 max.	3500	450 min. to 250 max.	0.40
VE17	130 min. to 230 max.	205 min. to 360 max.	340 min. to 595 max.	70 min. to 130 max.	6000	1000 min. to 550 max.	0.60
VE24	130 min. to 230 max.	205 min. to 360 max.	340 min. to 595 max.	140 min. to 250 max.	10,000	2500 min. to 1500 max.	0.80

NB: VE Series - Allows ordering code to be built by specifying operating voltage.

VF Series - Allows ordering code to be built by specifying breakdown voltage.

HOW TO ORDER

VE 09 P 0 0251 K DB

① Type Code:

VE = Selection by working voltage
VF = Selection by breakdown voltage

② Size Code:

VE Series: 07, 09, 13, 17, 24
VF Series: 05, 07, 10, 14, 20

③ Material Code:

P = Power Series

④ Voltage Marking Code:

0 = VE Series
1 = VF Series

⑤ Voltage Code:

VE Series: 1st digit: zero. 2nd & 3rd digit:
2 significant figures of working voltage. 4th
digit: number of significant zeros to be added.
Example: 0750 = 75 V, 0301 = 300 V

VF Series: 1st, 2nd & 3rd digits: significant
figures of breakdown voltage. 4th digit: number
of significant zeros to be added.
Example: 2050 = 205 V

⑥ Tolerance Code:

K = ±10% (contact factory for ±5%)

⑦ Packaging Code:

Please refer to fall catalog

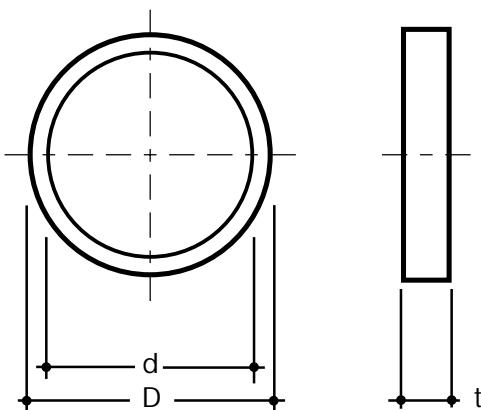
Packaging Quantities

Type	Bulk	AMMOPACK	REEL
VE07 - VF05 all	1500	1500	1500
VE09 - VF07 < 230 Vrms	1000	1500	1500
VE09 - VF07 230 V ≤ Vrms ≤ 300 V	1000	1000	1000
VE09 - VF07 > 300 Vrms	750	1000	1000
VE13 - VF10 ≤ 230 Vrms	500	750	750
VE13 - VF10 230 V ≤ Vrms ≤ 300 V	500	500	500
VE13 - VF10 > 300 Vrms	500	—	—
VE17 - VF14 ≤ 230 Vrms	500	750	750
VE17 - VF14 230 V ≤ Vrms ≤ 300 V	500	500	500
VE17 - VF14 > 300 Vrms	500	—	—
VE24 - VF20	250	—	—

Additional information on this product is available from
AVX's catalog or AVX's FAX Service. Call 1-800-879-1613
and request document #109. Visit our website
<http://www.avxcorp.com>

Zinc Oxide Varistors

VN 32 Uncoated Disc Series



HOW TO ORDER

VN32 M 0 0461 K --

- ① Type
- ② Material
- ③
- ④ RMS Operating Voltage
- ⑤ Tolerance
- ⑥ Suffix

Dimensions: millimeters (inches)

Type	D ±1.5	d ±1	t max.
VN32M00251K--	32 (1.26)	28 (1.10)	2.8 (.110)
VN32M02750K--	32 (1.26)	28 (1.10)	3.1 (.122)
VN32M00321K--	32 (1.26)	28 (1.10)	3.7 (.146)
VN32M00381K--	32 (1.26)	28 (1.10)	4.4 (.173)
VN32M00421K--	32 (1.26)	28 (1.10)	4.9 (.193)
VN32M00461K--	32 (1.26)	28 (1.10)	5.5 (.217)
VN32M00511K--	32 (1.26)	28 (1.10)	6.0 (.236)
VN32M00750K--	32 (1.26)	28 (1.10)	6.6 (.260)

Marking

On packaging only

Remark

Discs of 14 mm and 20 mm available upon request.

Particular Characteristics

Type	Max. operating voltage		Nominal voltage at 1 mA DC V _R (V)	Clamping voltage V _p (V)		Energy 1 surge (10 x 1000 µs) W (J)	Max. peak current with insulating coating (8 x 20 µs) I _p (kA)	
	V _{RMS} (V)	V _{DC} (V)		at 2.5 kA	at 2.5 kA		1 pulse	2 pulses
VN32M00251K--	250	330	390	970	1100	200	25	15
VN32M02750K--	275	369	430	1075	1230	260	25	15
VN32M00321K--	320	420	510	1200	1380	300	25	15
VN32M00381K--	380	500	610	1350	1550	350	25	15
VN32M00421K--	420	560	680	1500	1700	400	25	15
VN32M00461K--	460	615	750	1650	1900	450	25	15
VN32M00511K--	510	675	820	1800	2070	500	25	15
VN32M00750K--	575	730	910	2000	2300	550	25	15

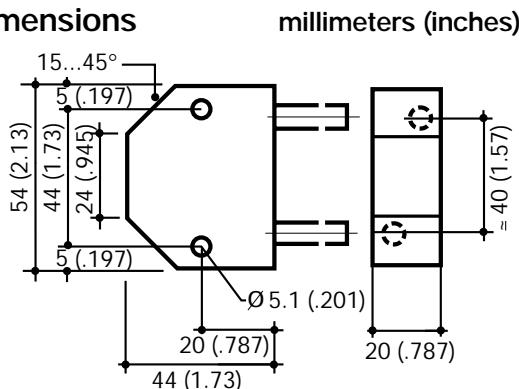
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #110. Visit our website <http://www.avxcorp.com>

Zinc Oxide Varistors

VB 32 Blocks



Dimensions



HOW TO ORDER

VB32 M 0 0421 K --

- ① Type
- ② Material
- ③
- ④ RMS Operating Voltage
- ⑤ Tolerance
- ⑥ Suffix

Packaging

Bulk or three units per box (one for each phase)

Marking

Type

AC nominal voltage (EIA code)

Logo

Particular Characteristics

Type	Max. operating voltage		Nominal voltage at 1 mA DC V _R (V)	Clamping voltage at 2.5 kA V _p (V)	Energy 1 surge (10 x 1000 µs) W (J)	Max. peak current with insulating coating (8 x 20 µs)	
	V _{RMS} (V)	V _{DC} (V)				I _p (kA) 1 pulse 2 pulses	
VB32M00251K- -	250	330	390	970	200	25	15
VB32M02750K- -	275	369	430	1075	260	25	15
VB32M00321K- -	320	420	510	1200	300	25	15
VB32M00381K- -	380	500	610	1350	350	25	15
VB32M00421K- -	420	560	680	1500	400	25	15
VB32M00461K- -	460	615	750	1650	450	25	15
VB32M00511K- -	510	675	820	1800	500	25	15
VB32M00750K- -	575	730	910	2000	550	25	15

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #111. Visit our website <http://www.avxcorp.com>

NTC SMD Thermistors

NC 12 - NC 20



NC 12 IEC SIZE : 08-05		NC 20 IEC SIZE : 12-06	
Silver - palladium - platinum metallization			
0.12 W max. at 25°C		0.24 W max. at 25°C	
2 mW/°C		4 mW/°C	
5 s		7 s	

Table of Values

NC 12 IEC SIZE : 08-05				NC 20 IEC SIZE : 12-06			
Rn at 25°C (Ω)	Material Code(1)	B (K) (ΔB/B)	α at 25°C (%/°C)	Rn at 25°C (Ω)	Material Code (1)	B (K) (ΔB/B)	α at 25°C (%/°C)
18				10			
22				12			
27				15			
33				18			
39	KC	3470 (±5%)	- 3.9	22			
47				27	KC	3470 (±5%)	- 3.9
56				33			
68				39			
82				47			
100				56			
120				68			
150				82			
180				100			
220							
270							
330							
390							
470							
560	MC	3910 (±5%)	- 4.4				
680							
820							
1,000							
1,200							
1,500							
1,800							
2,200							
2,700							
3,300							
3,900	J5	3480 (±5%)	- 3.9				
4,700							
5,600							
6,800							
8,200	K	3630 (±5%)	- 4.0				
10,000							
12,000							
15,000	L	3790 (±3%)	- 4.2				
18,000							
22,000							
27,000	M	3950 (±3%)	- 4.4				
33,000							
39,000							
47,000							
56,000	N	4080 (±3%)	- 4.6				
68,000							
82,000							
100,000							
120,000	P	4220 (±3%)	- 4.7				
150,000							
180,000							
220,000	Q	4300 (±3%)	- 4.7				

*See catalog for material resistance temperature characteristics.

HOW TO ORDER

NC 20 K0 0103 M BA

① Type

② Material Code*

③ Resistance

10,000 Ω

④ Tolerance

M = (±20%)

K = (±10%)

J = (±5%)

⑤ Suffix: Packaging

--: Bulk

BA: Super 8 plastic tape

BE: Super 8 plastic tape (1/2 reel)

Marking:

On package only

NTC SMD Thermistors



With Nickel Barrier Termination NB 12 - NB 20 - NB 21

NB 21 IEC SIZE : 06-03	NB 12 IEC SIZE : 08-05	NB 20 IEC SIZE : 12-06
Nickel Barrier		
0.07 W max. at 25°C	0.12 W max. at 25°C	0.24 W max. at 25°C
1 mW/°C 4 s	2 mW/°C 5 s	4 mW/°C 7 s

HOW TO ORDER

NB 20 K0 0103 M BA

(1) (2) (3) (4) (5)

(1) Type

(2) Material Code*

(3) Resistance

10,000 Ω

(4) Tolerance

M = (±20%)

K = (±10%)

J = (±5%)

(5) Suffix: Packaging

--: Bulk

BA: Super 8 plastic tape

BE: Super 8 plastic tape (1/2 reel)

Table of Values

NB 21 IEC SIZE : 06-03			
Rn at 25°C (Ω)	Material Code (1)	B (K) (ΔB/B ⁽¹⁾ ± 5% (2) ± 3%)	α at 25°C (%/°C)
4,700	PC	4200 (1)	- 4.7
10,000	J5	3480 (1)	- 3.9
15,000	K	3630 (2)	- 4.0
22,000	L	3790 (2)	- 4.2
47,000	M	3950 (2)	- 4.4
100,000	N5	4160 (2)	- 4.7
150,000	P	4220 (2)	- 4.7

NB 12 IEC SIZE : 08-05			
Rn at 25°C (Ω)	Material Code (1)	B (K) (ΔB/B ⁽¹⁾ ± 5% (2) ± 3%)	α at 25°C (%/°C)
18	KC	3470 (1)	- 3.9
22			
27			
33			
39			
47			
56			
68			
82			
100			
120	MC	3910 (1)	- 4.4
150			
180			
220			
270			
330			
390			
470			
560			
680			
820	J	3480 (1)	- 3.9
1,000			
1,200			
1,500			
1,800			
2,200			
2,700			
3,300			
3,900			
4,700			
5,600	K	3630 (1)	- 4.0
6,800			
8,200			
10,000			
12,000			
15,000			
18,000			
22,000			
27,000			
33,000			
39,000	L	3790 (2)	- 4.2
47,000			
56,000			
68,000			
82,000			
100,000			
120,000			
150,000			
180,000			
220,000			
270,000	M	3950 (2)	- 4.4
330,000			
39,000			
47,000			
56,000			
68,000			
82,000			
100,000			
120,000			
150,000			
180,000	N	4080 (2)	- 4.6
220,000			
270,000			
330,000			
390,000			
470,000			
560,000			
680,000			
820,000			
1,000,000			
270,000	Q	4300 (2)	- 4.7
330,000			
390,000			
470,000			
560,000			
680,000			
820,000			
1,000,000			
270,000	R	4400 (2)	- 4.8
330,000			
390,000			
470,000			
560,000			
680,000			
820,000			
1,000,000			

NB 20 IEC SIZE : 12-06			
Rn at 25°C (Ω)	Material Code (1)	B (K) (ΔB/B ⁽¹⁾ ± 5% (2) ± 3%)	α at 25°C (%/°C)
4,700	J	3480 (1)	- 3.9
5,600		3480 (2)	- 3.9
6,800			
8,200			
10,000	K	3630 (1)	- 4.0
12,000			
15,000	L	3790 (2)	- 4.2
18,000			
22,000			
27,000			
33,000			
39,000			
47,000			
56,000			
68,000			
82,000			
100,000	N5	4160 (2)	- 4.7
120,000			
150,000	P	4220 (2)	- 4.7
180,000			
220,000			
270,000			
330,000			
390,000			
470,000			
560,000			
680,000			
820,000			
1,000,000	R	4400 (2)	- 4.8
270,000			
330,000			
390,000			
470,000			
560,000			
680,000			
820,000			
1,000,000			

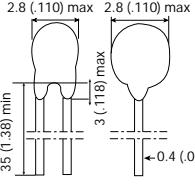
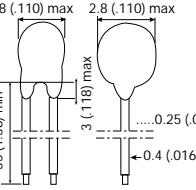
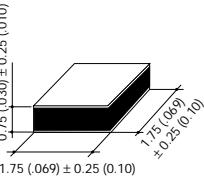
*See catalog for material resistance temperature characteristics.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #113. Visit our website <http://www.avxcorp.com>

NTC Disc Thermistors

Accurate: NJ 28 - NI 28 - NK 20



ACCURATE		
NJ 28	NI 28	NK 20
Coated chip with phenolic resin + varnish	Coated chip with epoxy insulated leads	Chip
		
$\pm 1\%, \pm 2\%, \pm 3\%$		
	0.16 W	
3 mW/°C	3 mW/°C	2 mW/°C
8 s	8 s	6 s
	< 2 s	

HOW TO ORDER

NJ28 NA 0103 F --
 ① ② ③ ④

① Type

NJ = Accurate non-insulated leads
 NI = Accurate insulated leads
 NK = Accurate Chip

② Material Code*

③ Resistance
 10 kΩ

④ Tolerance

K = 1%
 (See Table)

ACCURATE			
R _n at 25°C (Ω)	Material Code	B (K)	α at 25°C (%/°C)
2,000	KA	3625 ± 1%	- 4.1
3,000	MA	3960 ± 0.5%	- 4.5
5,000	MA	3960 ± 0.5%	- 4.5
10,000	NA	4100 ± 1%	- 4.6
20,000	PA	4235 ± 1%	- 4.8
50,000	QA	4250 ± 1%	- 4.8
100,000	RA	4380 ± 1%	- 4.9

Table of Values

GENERAL PURPOSE			
R _n at 25°C (Ω)	Material Code	B (K) ($\Delta B/B_{(2)}^{(1)} \pm 5\%$)	α at 25°C (%/°C)
47	F	2800 (1)	- 3.2
68			
100	G	3030 (1)	- 3.4
150			
220	H	3160 (1)	- 3.5
330	I	3250 (1)	- 3.7
470			
680	J	3480 (1)	- 3.9
1,000			
1,500	K	3630 (1)	- 4.0
2,200			
3,300	L	3790 (2)	- 4.2
4,700	M	3950 (2)	- 4.4
6,800			
10,000	N	4080 (2)	- 4.6
15,000			
22,000	P	4220 (2)	- 4.7
33,000			
47,000	Q	4300 (2)	- 4.7
68,000			
100,000	R	4400 (2)	- 4.8
150,000			
220,000	S	4520 (2)	- 5.0
330,000	T	4630 (2)	- 5.1
470,000			
1,000,000	U	4840 (2)	- 5.3

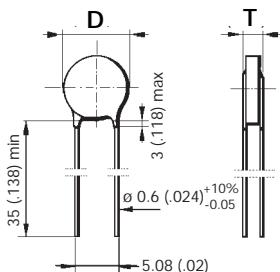
*See catalog for material resistance temperature characteristics.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #114. Visit our website <http://www.avxcorp.com>

NTC Disc Thermistors



General Purpose: ND 03 / ND 06 / ND 09



Dimensions: mm (inches)

	D Max	T Max
ND 03	3.5 (.138)	3.0 (.118)
ND 06	6.0 (.236)	4.0 (.157)
ND 09	9.5 (.375)	5.0 (.197)

HOW TO ORDER

ND 06 P0 0103 K --
 ① ② ③ ④

① Type

ND 03 = General Purpose
 ND 06 = General Purpose
 ND 09 = General Purpose

② Material Code*

③ Resistance

10 kΩ

④ Tolerance

K = ($\pm 10\%$)

Types	GENERAL PURPOSE		
	ND 03	ND 06	ND 09
Finish	Coated disc with phenolic resin	Coated disc with phenolic resin	Coated disc with phenolic resin
Standards			
Marking	On package only	Nominal resistance Tolerance for $\pm 5\%$, $\pm 10\%$	Nominal resistance Tolerance for $\pm 5\%$, $\pm 10\%$
Climatic category	-	-	-
Operating temperature	-55°C to +150°C	-55°C to +150°C-55°C to +150°C	-55°C to +150°C
Tolerance on Rn (25°C)	47Ω to 1MΩ: $\pm 5\%$, $\pm 10\%$, $\pm 20\%$ 1500Ω to 150 kΩ: $\pm 3\%$	$\pm 5\%$, $\pm 10\%$, $\pm 20\%$	$\pm 5\%$, $\pm 10\%$, $\pm 20\%$
Maximum dissipation at 25°C	0.25 W	0.71 W	0.9 W
Thermal dissipation factor	5 mW/°C	7.1 mW/°C	9 mW/°C
Thermal time constant	10 s	22 s	30 s

Table of Values

ND 03

Rn at 25°C (Ω)	Material Code	B (K) ($\Delta B/B$) ₍₁₎ ^{± 5%} ($\Delta B/B$) ₍₂₎ ^{± 3%}	α at 25°C (%/°C)
47	F	2800 (1)	- 3.2
68			
100	G	3030 (1)	- 3.4
150			
220	H	3160 (1)	- 3.5
330	I	3250 (1)	- 3.7
470			
680	J	3480 (1)	- 3.9
1,000			
1,500	K	3630 (1)	- 4.0
2,200			
3,300	L	3790 (2)	- 4.2
4,700	M	3950 (2)	- 4.4
6,800			
10,000	N	4080 (2)	- 4.6
15,000			
22,000	P	4220 (2)	- 4.7
33,000			
47,000	Q	4300 (2)	- 4.7
68,000			
100,000	R	4400 (2)	- 4.8
150,000			
220,000	S	4520 (2)	- 5.0
330,000			
470,000	T	4630 (2)	- 5.1
1,000,000	U	4840 (2)	- 5.3

ND 06

Rn at 25°C (Ω)	Material Code	B (K) ($\Delta B/B$) ₍₁₎ ^{± 5%} ($\Delta B/B$) ₍₂₎ ^{± 3%}	α at 25°C (%/°C)
10	F	2800 (1)	- 3.2
15			
22	G	3030 (1)	- 3.4
33			
47	H	3160 (1)	- 3.5
68			
100	I	3250 (1)	- 3.7
150	J	3480 (1)	- 3.9
220			
330	K	3630 (1)	- 4.0
470			
680	L	3790 (2)	- 4.2
1,000			
1,500	M	3950 (2)	- 4.4
2,200	N	4080 (2)	- 4.6
3,300			
4,700	P	4220 (2)	- 4.7
6,800			
10,000	Q	4300 (2)	- 4.7
15,000			
22,000	R	4400 (2)	- 4.8
33,000			
47,000	S	4520 (2)	- 5.0
68,000			
100,000	T	4630 (2)	- 5.1
150,000			

ND 09

Rn at 25°C (Ω)	Material Code	B (K) ($\Delta B/B$) ₍₁₎ ^{± 5%} ($\Delta B/B$) ₍₂₎ ^{± 3%}	α at 25°C (%/°C)
68	J	3480 (1)	- 3.9
100			
150	K	3630 (1)	- 4.0
220			
330	L	3790 (2)	- 4.2
470	M	3950 (2)	- 4.4
680	N	4080 (2)	- 4.6
1,000			
1,500	P	4220 (2)	- 4.7
2,200			
3,300	Q	4300 (2)	- 4.7
4,700			
6,800	R	4400 (2)	- 4.8
10,000			
15,000	S	4520 (2)	- 5.0
22,000			
33,000	T	4630 (2)	- 5.1
47,000			
68,000	U	4840 (2)	- 5.3
100,000			
150,000			

*See catalog for material resistance temperature characteristics.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #115. Visit our website <http://www.avxcorp.com>

NTC Thermistors

Insulated Metal Case NM 06



Type	NM 06
Finish	Disc thermistor, insulated metal case for chassis mounting
DIMENSIONS: millimeters (inches)	<p>This type can be delivered with fixing nut, add suffix WC to the reference.</p>
Marking	Nominal resistance Tolerance for $\pm 10\%$
Operating temperature	-55°C to +150°C
Tolerance on Rn (25°C)	$\pm 10\% \pm 20\%$
Maximum dissipation at 25°C	0.8 W - without heat sink 2 W - with heat sink Part mounted in the center of a brass plate (dim.: 100 x 100 x 1 mm)
Thermal dissipation factor*	8 mW/°C: without heat sink 20 mW/°C: with heat sink
Thermal time constant	Depending on cooling system
Test voltage to earth	380 Vrms (50 Hz)

*Typical value

NTC Leadless Disc Thermistors

Types	NR
Physical data (dim. in mm)	<p>Metallization</p>
Marking	On package only / On parts upon request
Operating temperature	-40°C to +200°C
Values and tolerances	Custom - designed products defined with: D $\pm \Delta D$ R ₁ $\pm \Delta R_1$ at T ₁ E $\pm \Delta E$ R ₂ $\pm \Delta R_2$ at T ₂ , ...

DIMENSIONS: millimeters (inches)

Types	D	E	Material Code	B (K)	R ₁ $\pm \Delta R_1$ at T ₁	T ₁ (°C)	R ₂ $\pm \Delta R_2$ at T ₂	T ₂ (°C)	R ₃ $\pm \Delta R_3$ at T ₃	T ₃ (°C)
NR 55 -- 3002 - 99	5.5 (.217) ± 0.5 (.020)	1.1 (.043) ± 0.4 (.016)	N5	4160	1230 Ω $\pm 7.5\%$	40	160 Ω $\pm 5\%$	96.5	-	-
NR 67 -- 3068 - 99	6.7 (.264) ± 0.5 (.020)	1.7 (.067) ± 0.3 (.012)	N	4080	150 Ω $\pm 3.3\%$	100	51 Ω $\pm 5.3\%$	140	-	-
NR 55 -- 3049 - 99	5.5 (.217) ± 0.5 (.020)	1.0 (.040) ± 0.2 (.008)	N5	4160	107 Ω $\pm 2.9\%$	110	80.6 Ω $\pm 2.8\%$	120	-	-
NR 55 -- 3046 - 99	5.5 (.217) ± 0.5 (.020)	1.3 (.051) ± 0.4 (.016)	S	4520	48600 Ω $\pm 7.5\%$	25	3210 Ω $\pm 5\%$	90	-	-
NR 49 -- 3119 - 99	4.9 (.193) ± 0.3 (.012)	1.5 (.060) ± 0.4 (.016)	M	3950	840 Ω $\pm 10\%$	37.8	84 Ω $\pm 5\%$	104.4	-	-
NR 55 -- 3114 - 99	5.5 (.217) ± 0.4 (.016)	1.0 (.040) ± 0.2 (.008)	P	4220	5000 Ω $\pm 10\%$	25	-	-	-	-
NR 70 -- 3121 - 99	7.0 (.275) ± 0.3 (.012)	1.2 (.047) ± 0.2 (.008)	L	3790	210 Ω $\pm 10\%$	40	40 Ω $\pm 7.5\%$	90	30 Ω $\pm 6.7\%$	100
NR 29 -- 3107 - 99	2.9 (.014) ± 0.3 (.012)	1.5 (.060) ± 0.3 (.012)	K	3630	2050 Ω $\pm 6\%$	25	193 Ω $\pm 5.4\%$	96.5	-	-
NR 55 -- 3122 - 99	5.5 (.217) ± 0.5 (.020)	1.5 (.060) ± 0.4 (.016)	J	3480	210 Ω $\pm 5\%$	25	-	-	-	-
NR 55 -- 3126 - 99	5.5 (.217) ± 0.5 (.020)	1.0 (.040) ± 0.2 (.008)	P	4220	3340 Ω $\pm 10\%$	25	264 Ω $\pm 7\%$	90	107 Ω $\pm 7\%$	120
NR 47 -- 3116 - 99	4.7 (.185) ± 0.4 (.016)	1.2 (.047) ± 0.2 (.008)	R	4400	33000 Ω $\pm 2\%$	25	-	-	-	-
NR 49 -- 3113 - 99	4.9 (.193) ± 0.3 (.012)	1.2 (.047) ± 0.2 (.008)	N	4080	1680 Ω $\pm 10\%$	40	382 Ω $\pm 6.7\%$	80	176 Ω $\pm 5\%$	105
NR 47 -- 3101 - 99	4.6 (.181) ± 0.3 (.012)	1.4 (.055) ± 0.3 (.012)	J	3480	146 Ω $\pm 13\%$	40	22 Ω $\pm 10\%$	100	-	-
NR 55 -- 3071 - 99	5.8 (.228) ± 0.3 (.012)	1.0 (.040) ± 0.2 (.008)	L	3790	262 Ω $\pm 8.7\%$	40	120 Ω $\pm 10\%$	60	35.5 Ω $\pm 7.8\%$	100
NR 61 -- 3063 - 99	6.1 (.240) ± 0.3 (.012)	1.5 (.060) ± 0.3 (.012)	N	4080	760 Ω $\pm 9.2\%$	50	130 Ω $\pm 8.5\%$	100	56.6 Ω $\pm 8.5\%$	130
NR 67 -- 3053 - 99	6.7 (.264) ± 0.4 (.016)	1.7 (.067) ± 0.3 (.012)	N	4080	540 Ω $\pm 11\%$	60	144 Ω $\pm 7\%$	100	-	-
NR 50 -- 3048 - 99	5.0 (.197) ± 0.5 (.020)	1.5 (.060) ± 0.5 (.020)	J	3480	233 Ω $\pm 10\%$	25	13.3 Ω $\pm 7\%$	121	-	-
NR 60 -- 3021 - 99	6.0 (.236) ± 0.5 (.020)	3.2 (.125) ± 0.3 (.012)	P	4220	3640 Ω $\pm 3\%$	40	457 Ω $\pm 3\%$	96.5	-	-
NR 55 -- 3016 - 99	5.5 (.217) ± 0.5 (.020)	1.1 (.043) ± 0.4 (.016)	Q	4300	5500 Ω $\pm 9\%$	40	650 Ω $\pm 7.7\%$	96.5	-	-

HOW TO ORDER

NM 06 P0 0103 M --

(1) (2) (3) (4)

(1) Type

(2) Material Code

P
(See table below)

(3) Resistance

10 kΩ

(4) Tolerance

M = ($\pm 20\%$)

K = ($\pm 10\%$)

R _n at 25°C (Ω)	Material Code	B (K) (ΔB/B ₍₁₎ ₍₂₎ ^{(1) ± 5% (2) ± 3%})	α at 25°C (%/°C)
10	F	2800 (1)	- 3.2
15			
22	G	3030 (1)	- 3.4
33			
47	H	3160 (1)	- 3.5
68			
100	I	3250 (1)	- 3.7
150	J	3480 (1)	- 3.9
220			
330	K	3630 (1)	- 4.0
470			
680	L	3790 (2)	- 4.2
1,000			
1,500	M	3950 (2)	- 4.4
2,200	N	4080 (2)	- 4.6
3,300			
4,700	P	4220 (2)	- 4.7
6,800			
10,000			
15,000	Q	4300 (2)	- 4.7
22,000			
33,000	R	4400 (2)	- 4.8
47,000			
68,000	S	4520 (2)	- 5.0
100,000	T	4630 (2)	- 5.1
150,000			
220,000			
330,000	U	4840 (2)	- 5.3

HOW TO ORDER

NR55 - - 3002 - 99

(1) (2)

(1) Type

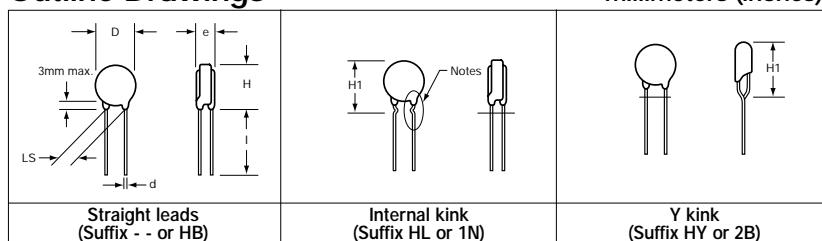
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #116. Visit our website <http://www.avxcorp.com>

NTC Inrush Current Limiters Thermistors



NF 08 - 10 - 13 - 15 - 20

Outline Drawings



Notes: In case of adding strength to the lead wire from the side, it may occur crack and fragment at a part of pant leg.

* 0.6 mm copper wire and 5.08 mm leads spacing for those two types.

Dimensions

Type	D max mm	e max mm	H max mm	H1 max mm	I min mm	d ±0.02 mm	LS ±0.8 mm	millimeters (inches)
NF08*	9.5 (0.374)	5.0 (0.197)	13.0 (0.512)	16.0 (0.630)	30 (1.181)	0.6 (0.024)	5.08 (0.200)	
NF08	9.5 (0.374)	5.0 (0.197)	13.0 (0.512)	16.0 (0.630)	30 (1.181)	0.8 (0.031)	7.62 (0.300)	
NF10*	11.5 (0.453)	5.0 (0.197)	15.0 (0.591)	18.0 (0.709)	30 (1.181)	0.6 (0.024)	5.08 (0.200)	
NF10	11.5 (0.453)	5.0 (0.197)	15.0 (0.591)	18.0 (0.709)	30 (1.181)	0.8 (0.031)	7.62 (0.300)	
NF13	15.0 (0.591)	6.0 (0.236)	18.0 (0.709)	22.0 (0.866)	30 (1.181)	0.8 (0.031)	7.62 (0.300)	
NF15	17.0 (0.669)	6.0 (0.236)	20.0 (0.787)	24.0 (0.945)	30 (1.181)	1.0 (0.039)	7.62 (0.300)	
NF20	22.0 (0.866)	6.0 (0.236)	25.0 (0.984)	29.0 (1.142)	30 (1.181)	1.0 (0.039)	7.62 (0.300)	

General Characteristics

Type	Standard tolerance** %	Maximum operating T°C	Max power 25°C Watts	Thermal dissipation δ_{th} (mW/K)	Thermal time constant τ_C (s)	Heat capacity H (mJ/K)	Packing bulk tape ✓ ✓
NF08*	20	-40 / +200	1.6	8	60	480	✓ ✓
NF08	20	-40 / +200	2.2	11	60	660	✓ ✓
NF10*	20	-40 / +200	2.0	10	75	750	✓ -
NF10	20	-40 / +200	2.6	13	75	975	✓ ✓
NF13	20	-40 / +200	3.2	16	100	1600	✓ ✓
NF15	20	-40 / +200	4.1	20	115	2300	✓ -
NF20	20	-40 / +200	5.0	25	160	4000	✓ -

* 0.6 mm copper wire and 5.08 mm leads spacing for those two types.

** Other tolerances available: L: ±15, X: ±25%

HOW TO ORDER

NF 13 AA 0509 M --
 ① ② ③ ④ ⑤

① Type

② Inrush Current Limiters

③ Resistance

5 kΩ

④ Tolerance

M = (±20%)

⑤ Suffix

Bulk, Straight leads (see illustration)

Suffixes for Bulk Packing

-- Straight leads 0.8 or 1 mm wire diameter and 7.62 lead spacing

HB Straight leads 0.6 mm wire diameter and 5.08 lead spacing

HL Internal kink 0.8 mm or 1 mm wire diameter and 7.62 lead spacing

1N Internal kink 0.6 mm wire diameter and 5.08 lead spacing

HY Y kink 0.8 or 1 mm wire diameter and 7.62 lead spacing

2B Y kink 0.6 mm wire diameter and 5.08 lead spacing

Ceramic Disc ø (mm)	Zero power resistance $R_{25^\circ\text{C}}$ (Ω)	Max steady state current $I_{ss \max}$ 25°C (A)	Resistance at max current $R_{iss \max}$ (Ω)
08	5.0	2.9	0.20
	8.0	2.3	0.30
	10.0	2.1	0.37
	15.0	1.8	0.50
	33.0	1.3	0.97
08	5.0	3.4	0.20
	8.0	2.7	0.30
	10.0	2.5	0.37
	15.0	2.1	0.50
	33.0	1.5	0.97
10	2.5	4.5	0.10
	4.0	3.6	0.16
	5.0	3.3	0.19
	8.0	2.6	0.30
	10.0	2.5	0.34
	16.0	2.0	0.50
	20.0	1.9	0.59
	25.0	1.7	0.69
	50.0	1.4	1.07
	80.0	1.1	1.60
	120.0	1.0	1.90
	2.5	5.2	0.10
	4.0	4.1	0.16
13	5.0	3.8	0.19
	8.0	3.0	0.30
	10.0	2.8	0.34
	16.0	2.3	0.50
	20.0	2.1	0.59
	25.0	2.0	0.69
	50.0	1.6	1.07
	80.0	1.3	1.60
	120.0	1.2	1.90
	2.5	5.7	0.10
15	5.0	4.2	0.19
	7.0	3.7	0.24
	8.0	3.6	0.25
	10.0	3.3	0.30
	15.0	2.8	0.41
	22.0	2.3	0.61
	33.0	2.2	0.70
	40.0	2.0	0.80
	60.0	1.9	0.95
	1.3	8.9	0.05
	1.5	8.3	0.06
	2.5	6.6	0.09
	3.0	6.1	0.11
20	4.0	5.5	0.13
	5.0	4.9	0.17
	6.0	4.7	0.19
	7.0	4.3	0.22
	8.0	4.2	0.24
	10.0	3.7	0.30
	12.0	3.5	0.33
	20.0	3.0	0.44
	25.0	3.1	0.43
	33.0	2.8	0.53

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #117. Visit our website <http://www.avxcorp.com>

PTC Disc Thermistors



Overload Protection: PE - PG

Types		PE	PG
Finish		Coated disc	Leadless disc for soldering or clamping
DIMENSIONS: millimeters (inches)		<p>30 min</p>	<p>4.5 mm ± 1mm</p>
Marking		Logo / Rated resistance	On packaging only

Characteristics and Dimensions: millimeters (inches)

30V / Switching Temperature: 130°C

Reference	Rn ± 25% (Ω)	Int* at 25°C (mA)	It* at 25°C (mA)	Imo (A)	Ires at 25°C (mA)	PE		PG			
						Dmax	emax	d	LS	Dmax	emax
PB03 PB 0130 X --	13	100	200	0.7	40	4.2 (0.165)	3.5 (0.138)	0.5 (0.020)	5 (0.197)	4 (0.157)	1.5 (0.059)
PB04 PB 0130 X --	13	125	250	1.5	40	5.3 (0.209)	4.5 (0.177)	0.6 (0.024)	5 (0.197)	4.8 (0.189)	3 (0.118)
PB06 PB 0609 X --	6	220	440	2	50	7.2 (0.165)	4 (0.157)	0.6 (0.024)	5 (0.197)	6.5 (0.256)	2.5 (0.098)
PB08 PB 0409 X --	4	300	600	3	60	9 (0.283)	4 (0.157)	0.6 (0.024)	5 (0.197)	8.2 (0.323)	2.5 (0.098)
PB10 PB 0259 X --	2.5	400	800	4.3	70	11 (0.433)	4 (0.157)	0.6 (0.024)	5 (0.197)	10.2 (0.402)	2.5 (0.098)
PB12 PB 0189 X --	1.8	500	1000	5.5	80	13 (0.512)	4 (0.157)	0.8 (0.031)	7.6 (0.299)	12 (0.472)	2.5 (0.098)
PB16 PB 0119 X --	1.1	800	1600	8	100	17.5 (0.689)	4 (0.157)	0.8 (0.031)	7.6 (0.299)	16.5 (0.650)	2.5 (0.098)

130V / Switching Temperature: 110°C

Reference	Rn ± 25% (Ω)	Int* at 25°C (mA)	It* at 25°C (mA)	Imo (A)	Ires at 25°C (mA)	PE		PG			
						Dmax	emax	d	LS	Dmax	emax
PB04 MG 0101 X --	100	45	90	0.35	8	5.3 (0.209)	5 (0.197)	0.6 (0.024)	5 (0.197)	4.8 (0.189)	3.5 (0.059)
PB04 MG 0700 X --	70	50	100	0.4	8	5.3 (0.209)	4.5 (0.177)	0.6 (0.024)	5 (0.197)	4.8 (0.189)	3 (0.118)
PB04 MG 0550 X --	55	60	120	0.45	8	5.3 (0.209)	4.5 (0.177)	0.6 (0.024)	5 (0.197)	4.8 (0.189)	3 (0.118)
PB04 MG 0350 X --	35	75	150	0.5	8.5	5.3 (0.209)	4.5 (0.177)	0.6 (0.024)	5 (0.197)	4.8 (0.189)	3 (0.118)
PB06 MG 0250 X --	25	95	190	1	10	7.2 (0.283)	4.5 (0.177)	0.6 (0.024)	5 (0.197)	6.5 (0.256)	3 (0.118)
PB06 MG 0150 X --	15	125	250	1.3	10.5	7.2 (0.283)	4.5 (0.177)	0.6 (0.024)	5 (0.197)	6.5 (0.256)	3 (0.118)
PB08 MG 0100 X --	10	170	340	2	11.5	9 (0.354)	4.5 (0.177)	0.6 (0.024)	5 (0.197)	8.2 (0.323)	3 (0.118)
PB10 MG 0709 X --	7	210	420	2.8	14	11 (0.433)	4.5 (0.177)	0.6 (0.024)	5 (0.197)	10.2 (0.472)	3 (0.118)
PB12 MG 0459 X --	4.5	280	560	4.5	18	13 (0.512)	5 (0.197)	0.8 (0.031)	7.6 (0.299)	12 (0.472)	3 (0.118)
PB16 MG 0309 X --	3	400	800	7	25	17.5 (0.689)	5 (0.197)	0.8 (0.031)	7.6 (0.299)	16.5 (0.650)	3 (0.118)
PB20 MG 0189 X --	1.8	650	1300	11	30	22 (0.866)	5 (0.197)	0.8 (0.031)	7.6 (0.299)	21 (0.827)	3 (0.118)

265V / Switching Temperature: 80°C

Reference	Rn ± 25% (Ω)	Int* at 25°C (mA)	It* at 25°C (mA)	Imo (A)	Ires at 25°C (mA)	PE		PG			
						Dmax	emax	d	LS	Dmax	emax
PB04 JN 0151 X --	150	28	56	0.25	5	5.3 (0.209)	5 (0.197)	0.6 (0.024)	5 (0.197)	4.8 (0.189)	3.5 (0.138)
PB04 JN 0101 X --	100	35	70	0.25	5	5.3 (0.209)	5 (0.197)	0.6 (0.024)	5 (0.197)	4.8 (0.189)	3.5 (0.138)
PB06 JN 0700 X --	70	40	80	0.5	5	7.2 (0.283)	5 (0.197)	0.6 (0.024)	5 (0.197)	6.5 (0.256)	3.5 (0.138)
PB08 JN 0250 X --	25	75	150	0.9	6	9 (0.354)	5 (0.197)	0.6 (0.024)	5 (0.197)	8.2 (0.257)	3.5 (0.138)
PB10 JN 0150 X --	15	110	220	1.5	7	11 (0.433)	5 (0.197)	0.6 (0.024)	5 (0.197)	10.2 (0.402)	3.5 (0.138)
PB12 JN 0100 X HB	10	135	270	2.2	8	13 (0.512)	5 (0.197)	0.6 (0.024)	5 (0.197)	12 (0.472)	3.5 (0.138)
PB12 JN 0100 X --	10	150	300	2.2	8	13 (0.512)	5 (0.197)	0.8 (0.031)	7.6 (0.299)	12 (0.472)	3.5 (0.138)
PB16 JN 0609 X --	6	200	400	3.5	12	17.5 (0.689)	6 (0.236)	0.8 (0.031)	7.6 (0.299)	16.5 (0.650)	4 (0.157)
PB20 JN 0379 X --	3.7	300	600	5	16	22 (0.866)	6 (0.236)	0.8 (0.031)	7.6 (0.299)	21 (0.827)	4 (0.157)

265V / Switching Temperature: 120°C

UL	Reference	Rn ± 25% (Ω)	Int* at 25°C (mA)	It* at 25°C (mA)	Imo (A)	Ires at 25°C (mA)	PE		PG			
							Dmax	emax	d	LS	Dmax	emax
*	PB04 NN 0221 X --	220	35	70	0.25	5	5.6 (0.220)	5 (0.197)	0.6 (0.024)	5 (0.197)	4.8 (0.189)	3.5 (0.059)
*	PB04 NN 0151 X --	150	45	90	0.25	5	5.6 (0.220)	5 (0.197)	0.6 (0.024)	5 (0.197)	4.8 (0.189)	3.5 (0.059)
*	PB06 NN 0121 X --	120	52	104	0.5	6	7.2 (0.283)	5 (0.197)	0.6 (0.024)	5 (0.197)	6.5 (0.256)	3.5 (0.059)
*	PB06 NN 0101 X --	100	58	116	0.5	6	7.2 (0.283)	5 (0.197)	0.6 (0.024)	5 (0.197)	6.5 (0.256)	3.5 (0.059)
*	PB06 NN 0700 X --	70	65	130	0.5	6	7.2 (0.283)	5 (0.197)	0.6 (0.024)	5 (0.197)	6.5 (0.256)	3.5 (0.059)
*	PB06 NN 0680 X --	68	65	130	0.5	6	7.2 (0.283)	5 (0.197)	0.6 (0.024)	5 (0.197)	6.5 (0.256)	3.5 (0.059)
*	PB08 NN 0550 X --	55	80	160	0.9	8	9.0 (0.354)	5 (0.197)	0.6 (0.024)	5 (0.197)	8.2 (0.323)	3.5 (0.059)
*	PB08 NN 0470 X --	47	85	170	0.9	8	9.0 (0.354)	5 (0.197)	0.6 (0.024)	5 (0.197)	8.2 (0.323)	3.5 (0.059)
*	PB08 NN 0450 X --	45	85	170	0.9	8	9.0 (0.354)	5 (0.197)	0.6 (0.024)	5 (0.197)	8.2 (0.323)	3.5 (0.059)
*	PB08 NN 0350 X --	35	90	180	0.9	8	9.0 (0.354)	5 (0.197)	0.6 (0.024)	5 (0.197)	8.2 (0.323)	3.5 (0.059)
*	PB08 NN 0330 X --	33	90	180	0.9	8	9.0 (0.354)	5 (0.197)	0.6 (0.024)	5 (0.197)	8.2 (0.323)	3.5 (0.059)
*	PB08 NN 0250 X --	25	100	200	0.9	8	9.0 (0.354)	5 (0.197)	0.6 (0.024)	5 (0.197)	8.2 (0.323)	3.5 (0.059)
*	PB08 NN 0220 X --	22	105	210	0.9	8	9.0 (0.354)	5 (0.197)	0.6 (0.024)	5 (0.197)	8.2 (0.323)	3.5 (0.059)
*	PB10 NN 0150 X --	15	135	270	1.5	9	11.5 (0.453)	5 (0.197)	0.6 (0.024)	5 (0.197)	10.2 (0.402)	3.5 (0.059)
*	PB12 NN 0100 X HB	10	180	360	2.2	10	13.5 (0.209)	5 (0.197)	0.6 (0.024)	5 (0.197)	12 (0.472)	3.5 (0.059)
*	PB12 NN 0100 X --	10	225	450	2.2	12	13.5 (0.209)	5 (0.197)	0.8 (0.031)	7.6 (0.299)	12 (0.472)	3.5 (0.059)
*	PB16 NN 0689 X --	6.8	300	600	3.5	16	17.5 (0.689)	6 (0.236)	0.8 (0.031)	7.6 (0.299)	16.5 (0.650)	4 (0.157)
*	PB16 NN 0609 X --	6	310	620	3.5	16	17.5 (0.689)	6 (0.236)	0.8 (0.031)	7.6 (0.299)	16.5 (0.650)	4 (0.157)
*	PB20 NN 0479 X --	4.7	400	800	5	20	22 (0.866)	6 (0.236)	0.8 (0.031)	7.6 (0.299)	21 (0.827)	4 (0.157)
*	PB20 NN 0379 X --	3.7	460	920	5	20	22 (0.866)	6 (0.236)	0.8 (0.031)	7.6 (0.299)	21 (0.827)	4 (0.157)

HOW TO ORDER

PE 12 J N 0100 X --

① ② ③ ④ ⑤

① Type

PE = Coated Disc

PG = Leadless Disc

② Size

③ Material

See Tables

④ Voltage

B = 30V

G = 130V

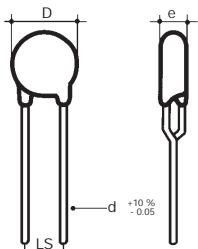
N = 265V

⑤ Rn

PTC Disc Thermistors



Telecommunications Series: PE - PS



HOW TO ORDER

PE 10 - - 0020 - - -

(1)

(2)

Packaging: on tape and reel.

Quantity: 1500 parts per reel.

(1) Type

(2) TPC P/N

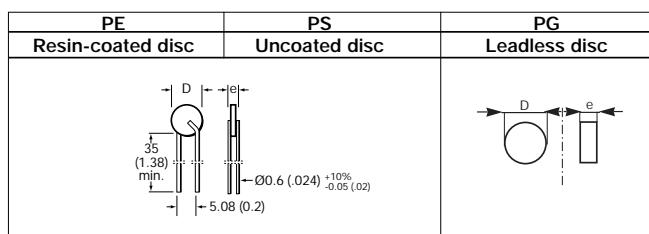
Characteristics and Dimensions: millimeters (inches)

Reference	Vmax Rms	Rn (Ω)	Tolerance on Rn	Dmax	emax	d	LS	Finish
PS 06 N - 0005 - - -	130	70	+10% -15%	6.4 (0.252)	4 (0.157)	0.6 (0.024)	5 (0.197)	Uncoated
PS 06 N - 0015 - - -	245	70	+10% -15%	6.4 (0.252)	4 (0.157)	0.6 (0.024)	5 (0.197)	Uncoated
PS 10 - - 0019 - - -	245	16	±25%	11 (0.433)	4.5 (0.177)	0.6 (0.024)	5 (0.197)	Coated
PS 10 - - 0020 - - -	245	10	±20%	11 (0.433)	4.5 (0.177)	0.6 (0.024)	5 (0.197)	Coated
PS 08 - - 0021 - - -*	245	25	±15%	8.3 (0.327)	4 (0.157)	0.6 (0.024)	5 (0.197)	Uncoated
PS 08 - - 0022 - - -	245	25	±25%	9 (0.354)	5 (0.197)	0.6 (0.024)	5 (0.197)	Coated

*per reel $\Delta R = 1 \Omega$ max

Individual data sheet: upon request

Industrial and Automotive



HOW TO ORDER

PE 06 - - 1020 - - -

(1)

(2)

(1) Type

(2) TPC P/N

Overload Protection – Delayed Switching

Type	Diam. (D) max. mm (inches)	Thick. (e) max. mm (inches)	Vmax (V)	R25°C (Ohms)	ΔR25°C (%)	Tb (°C)	Int (mA)	It (mA)	Imo (A)	Ires (mA)	tb (s)
PE 06 - - 1020 - - -	6.5 (0.256)	3 (0.118)	30	3.0	25	140	400	600	4.5	50	0.260
PE 04 - - 1019 - - -	5 (0.197)	3 (0.118)	30	6.0	25	140	270	400	2.5	45	0.230
PE 06 - - 1021 - - -	8 (0.315)	5 (0.197)	30	8.2	20	115	180				
PE 08 - - 1031 - - -	9 (0.354)	3.5 (0.138)	80	9.4	25	110	150	300	1.3	20	≤3
PE 04 - - 1032 - - -	6.5 (0.256)	3.5 (0.138)	40	125	25	110	40	80	0.35	8	

Time Delay For Lighting

Type	Diam. (D) max. mm (inches)	Thick. (e) max. mm (inches)	Vmax (V)	R25°C (Ohms)	ΔR25°C (%)	Tb (°C)	Int (mA)	It (mA)	Imo (A)	Ires (mA)	tb (s)
PE 04 JN 0151 X - -	5.3 (0.209)	5 (0.197)	265	150	25	80	28	56	0.25	5	
PE 04 JN 0101 X - -	5.3 (0.209)	5 (0.197)	265	100	25	80	35	70	0.25	5	
PE 04 - - 1041 - - -	6.5 (0.256)	5 (0.197)	420	600	25	120	20	40	0.2		

Heating Elements And Thermostats – Measurement And Control

Type	Diam. (D) max. mm (inches)	Thick. (e) max. mm (inches)	Vmax (V)	R25°C (Ohms)	ΔR25°C (%)	T1 (°C)	R1 (Ohms)	T2 (°C)	R2 (Ohms)	T3 (°C)	R3 (Ohms)
PG 08 - - 1008 - - -	8.0 + 0.5 (0.315 + 0.020)	1.0 ± 0.2 (0.009 0.04)	30	8.0	25	105	<2R25°C	115	>2R25°C		
PG 08 - - 1017 - - -	8.0 + 0.5 (0.315 + 0.020)	1.0 ± 0.1 (0.04 ± 0.004)	30	8.0	25	75	<2R25°C	85	>2R25°C		
PG 08 - - 1015 - - -	8.0 + 0.5 (0.315 + 0.020)	1.2 ± 0.2 (0.009 0.047)		12.5	16	90	<50	110	>1 k	125	>20 k
PS 06 - - 1005 - - -	7 (0.276)	2.5 (0.098)	30	12.5	20	50	<2R25°C	60	>2R25°C	100	>1 k
PS 04 - - 1009 - - -	4.7 ± 0.3 (0.185 ± 0.012)	1.05 ± 0.3 (0.041 ± 0.012)	80	25.0	25	95	<2R25°C	105	>2R25°C		

Individual data sheet, marking, lead configuration, packaging, ... upon request.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #119. Visit our website <http://www.avxcorp.com>

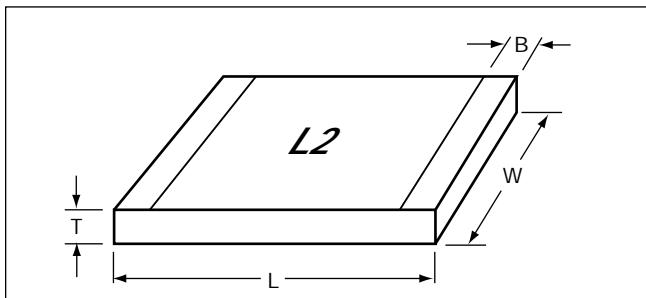


Thin-Film Fuse

Accu-Guard II® - Surface Mount



Dimensions: millimeters (inches)



HOW TO ORDER

F0805 B 1R00 F W TR

① ② ③ ④ ⑤

① **Style and Size:** (Standard EIA chip sizes)

② **Current Rating Code**

③ **F=Fast Fuse Speed**

④ **Termination:** Ni/Solder (Sn 63, Pb 37)

⑤ **Standard Packaging:** Tape and reel
(TR = 7"/3,000 pcs; TT = 13"/10,000 pcs)

	0603	0805	1206
L	1.65±0.15 (0.065±0.006)	2.1±0.2 (0.083±0.008)	3.1±0.2 (0.122±0.008)
W	0.80±0.15 (0.031±0.006)	1.27±0.1 (0.050±0.004)	1.6±0.1 (0.063±0.004)
T	0.70±0.15 (0.028±0.006)	0.9±0.2 (0.035±0.008)	1.2±0.2 (0.047±0.008)
B	0.35±0.15 (0.014±0.006)	0.3±0.15 (0.012±0.006)	0.43±0.25 (0.017±0.010)

Marking Code*	F2	H2	K2	12	P2	L2	22	V2	32
Rated Current (A)	0.25	0.50	0.75	1.00	1.25	1.50	2.00	2.50	3.00

*0805 only

0603 Size

Part Number	Current Rating A	Resistance @ 10% x I rated, 25°C Ω (Max.)	Voltage Drop @ 1 x I rated, 25°C mV (Max.)	Fusing Current (within 5 sec.) 25°C A	Pre-Arc 1t @ 50A A² - sec.	Rated Voltage V
F0603C0R15FWTR	0.15	1.75 (1.3 typ)	400	0.30	0.000004*	32
F0603C0R25FWTR	0.25	0.800	280	0.50	0.00003*	32
F0603C0R37FWTR	0.375	0.500	280	0.75	0.0001	32
F0603C0R50FWTR	0.50	0.320	280	1.00	0.0002	32
F0603C0R75FWTR	0.75	0.300	280	1.50	0.0015	32
F0603C1R00FWTR	1.00	0.200	240	2.00	0.004	32
F0603C1R25FWTR	1.25	0.170	240	2.50	0.007	32
F0603C1R50FWTR	1.50	0.110	240	3.00	0.012	32
F0603C1R75FWTR	1.75	0.090	240	3.50	0.02	24
F0603C2R00FWTR	2.00	0.075	240	4.00	0.03	24
F0603C2R50FWTR	2.50	0.055	200	5.00	0.05	16
F0603C3R00FWTR	3.00	0.045	200	6.00	0.1	16

*Current is limited to less than 50A at 32V due to internal fuse resistance.

0805 Size

Part Number	Current Rating A	Resistance @ 10% x I rated, 25°C Ω (Max.)	Voltage Drop @ 1 x I rated, 25°C mV (Max.)	Fusing Current (within 5 sec.) 25°C A	Pre-Arc 1t @ 50A A² - sec.	Rated Voltage V
F0805B0R15FWTR	0.15	1.75 (1.3 typ)	400	0.30	0.000004	63
F0805B0R25FWTR	0.25	0.750	280	0.50	0.00003	63
F0805B0R50FWTR	0.50	0.350	280	1.00	0.0002	63
F0805B0R75FWTR	0.75	0.270	280	1.50	0.001	63
F0805B1R00FWTR	1.00	0.220	280	2.00	0.003	63
F0805B1R25FWTR	1.25	0.170	280	2.50	0.007	63
F0805B1R50FWTR	1.50	0.120	240	3.00	0.010	63
F0805B2R00FWTR	2.00	0.080	220	4.00	0.030	63
F0805B2R50FWTR	2.50	0.060	220	5.00	0.050	63
F0805B3R00FWTR	3.00	0.050	220	6.00	0.10	63

1206 Size

Part Number	Current Rating A	Resistance @ 10% x I rated, 25°C Ω (Max.)	Voltage Drop @ 1 x I rated, 25°C mV (Max.)	Fusing Current (within 5 sec.) 25°C A	Pre-Arc 1t @ 50A A² - sec.	Rated Voltage V
F1206B0R25FWTR	0.25	0.750	280	0.50	0.00003	63
F1206B0R50FWTR	0.50	0.350	280	1.00	0.0002	63
F1206B1R00FWTR	1.00	0.180	240	2.00	0.003	63
F1206B1R50FWTR	1.50	0.120	240	3.00	0.010	63
F1206B2R00FWTR	2.00	0.080	220	4.00	0.030	63
F1206B3R00FWTR	3.00	0.050	220	6.00	0.10	63

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #120. Visit our website <http://www.avxcorp.com>

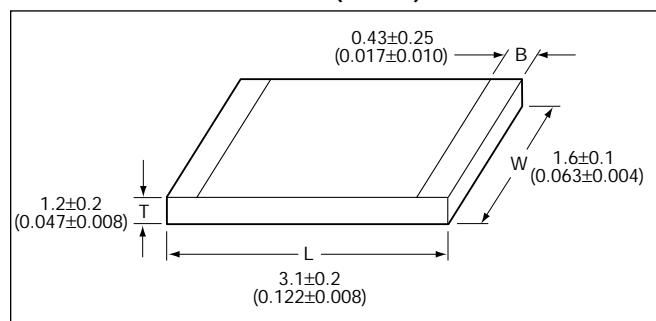


Thin-Film Fuse



Accu-Guard® - Surface Mount - Fast Speed

Dimensions: millimeters (inches)



HOW TO ORDER

F1206A 1R00 F W TR

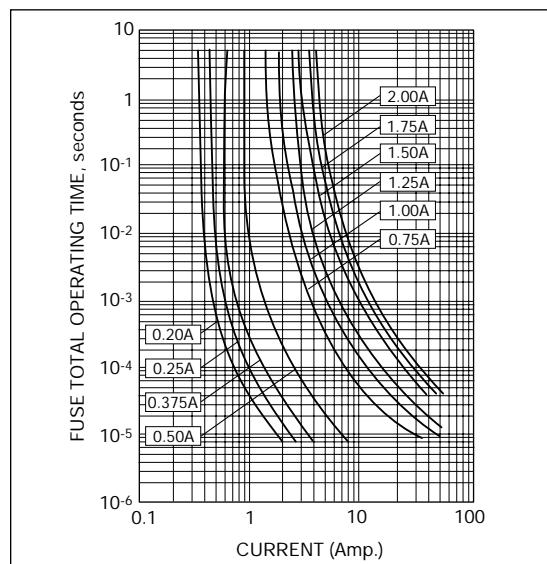
① ② ③ ④ ⑤

- ① Style and Size: (Standard EIA chip sizes)
- ② Current Rating Code
- ③ F=Fast Fuse Speed
- ④ Termination: Ni/Solder (Sn 63, Pb 37)
- ⑤ Standard Packaging: Tape and reel
(TR = 7"/3,000 pcs; TT = 13"/10,000 pcs.)

Part Number	Current Rating A	Resistance @ 10% x I rated, 25°C Ω (Max.)	Voltage Drop @ 1 x I rated, 25°C mV (Max.)	Fusing Current (within 5 sec.) 25°C A	Total Operating 1 ² t @ 50A A ² - sec.
F1206A0R20FWTR	0.200	0.95	350	0.40	0.00002*
F1206A0R25FWTR	0.250	0.75	280	0.50	0.00004*
F1206A0R37FWTR	0.375	0.40	220	0.75	0.00006
F1206A0R50FWTR	0.500	0.35	220	1.00	0.0002
F1206A0R75FWTR	0.750	0.25	220	1.50	0.003
F1206A1R00FWTR	1.000	0.18	220	2.00	0.005
F1206A1R25FWTR	1.250	0.15	220	2.50	0.009
F1206A1R50FWTR	1.500	0.11	220	3.00	0.02
F1206A1R75FWTR	1.750	0.10	210	3.50	0.035
F1206A2R00FWTR	2.000	0.065	160	4.00	0.04

*Current is limited to less than 50A at 32V due to internal fuse resistance.

Fuse Time – Current Characteristics



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #121. Visit our website <http://www.avxcorp.com>

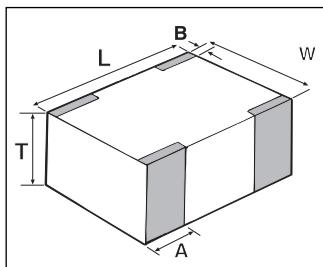


Thin-Film Directional Couplers

CP0805 Type



Dimensions: millimeters (inches)



	0805
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.98±0.1 (0.039±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

HOW TO ORDER

CP - 0805 A 0902 - A W

① ② ③ ④ ⑤ ⑥

① **Style:** Directional Couplers

② **Size:** 0805

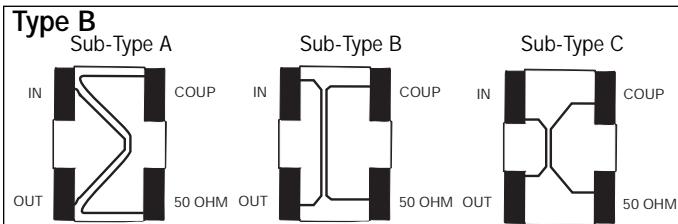
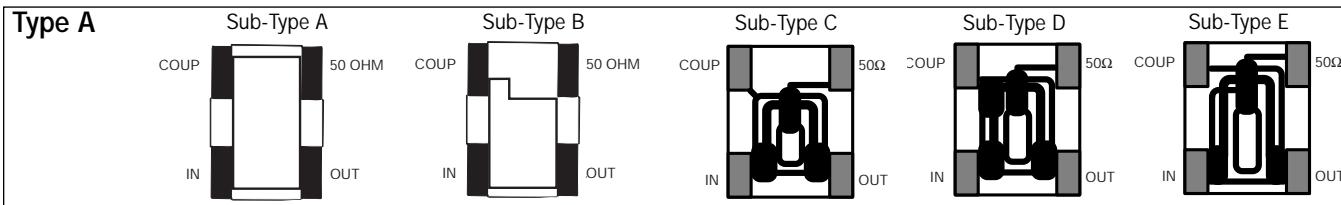
③ **Type:** (see below)

④ **Frequency:** MHz

⑤ **Sub Type:** (see below)

⑥ **Termination:** Nickel/Solder (Sn/Pb)

LAYOUT TYPE



Coupler Type : AA

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss max	VSWR max
GSM	CP0805A0902AW	890 ~ 915	16±1	0.25dB	1.2
	CP0805A0947AW	935 ~ 960	15.5±1		
AMPS	CP0805A0836AW	824 ~ 849	16.5±1		
	CP0805A0881AW	869 ~ 894	16±1		

Coupler Type : AB

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss max	VSWR max
GSM	CP0805A0902BW	890 ~ 915	18±1	0.25dB	1.2
	CP0805A0947BW	935 ~ 960	18±1		
AMPS	CP0805A0836BW	824 ~ 849	19±1		
	CP0805A0881BW	869 ~ 894	18.5±1		

Coupler Type : AC

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss [dB] max	VSWR max
AMPS	CP0805A0836CW	824 ~ 849	14±1	0.5	1.4
	CP0805A0881CW	869 ~ 894	13.5±1		
GSM	CP0805A0902CW	890 ~ 915	13.5±1		
	CP0805A0947CW	935 ~ 960	13±1		
E-GSM	CP0805A0897CW	880 ~ 915	13.5±1		
	CP0805A0942CW	925 ~ 960	13±1		

Coupler Type : AD

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss [dB] max	VSWR max
AMPS	CP0805A0836DW	824 ~ 849	13	0.5	1.4
	CP0805A0881DW	869 ~ 894	12.5		
GSM	CP0805A0902DW	890 ~ 915	12.5		
	CP0805A0947DW	935 ~ 960	12		
E-GSM	CP0805A0897DW	880 ~ 915	12.5		
	CP0805A0942DW	925 ~ 960	12		

Note: All coupler types are designed to be used at any frequency within the 800MHz to 2500MHz range. The part numbers listed are only examples for typical applications.

Coupler Type : AE

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss [dB] max	VSWR max
AMPS	CP0805A0836EW	824 ~ 849	11±1	0.85	1.4
	CP0805A0881EW	869 ~ 894	10.5±1		
	CP0805A0902EW	890 ~ 915	10.5±1		
GSM	CP0805A0947EW	935 ~ 960	10±1		
	CP0805A0897EW	880 ~ 915	10.5±1		
E-GSM	CP0805A0942EW	925 ~ 960	10±1		

Coupler Type : BA

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss max	VSWR max
PCN	CP0805B1747AW	1710 ~ 1785	15.5±1	0.25dB	1.2
	CP0805B1842AW	1805 ~ 1880	15±1		
PCS	CP0805B1890AW	1850 ~ 1910	15±1	0.4dB	
	CP0805B1950AW	1930 ~ 1990	14.5±1		
PHP	CP0805B1907AW	1895 ~ 1920	15±1	0.3dB	
	DECT	CP0805B1890AW	1880 ~ 1900		
Wireless LAN	CP0805B2442AW	2400 ~ 2484	13±1	0.4dB	

Coupler Type : BB

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss max	VSWR max
PCN	CP0805B1747BW	1710 ~ 1785	17±1	0.25dB	1.2
	CP0805B1842BW	1805 ~ 1880	16.5±1		
	CP0805B1890BW	1850 ~ 1910	16±1		
PCS	CP0805B1950BW	1930 ~ 1990	16±1		
	CP0805B1907BW	1895 ~ 1920	16±1		
PHP	CP0805B1890BW	1880 ~ 1900	16±1		
DECT	CP0805B2442BW	2400 ~ 2484	14±1		
Wireless LAN	CP0805B1907CW	1710 ~ 1785	18.5±1		

Coupler Type : BC

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss max	VSWR max
PCN	CP0805B1747CW	1710 ~ 1785	18.5±1	0.25dB	1.2
	CP0805B1842CW	1805 ~ 1880	18.5±1		
PCS	CP0805B1890CW	1850 ~ 1910	18±1		
	CP0805B1950CW	1930 ~ 1990	17.5±1		
PHP	CP0805B1907CW	1895 ~ 1920	18±1		
	DECT	CP0805B1890CW	1880 ~ 1900		
Wireless LAN	CP0805B2442CW	2400 ~ 2484	16±1	0.4dB	

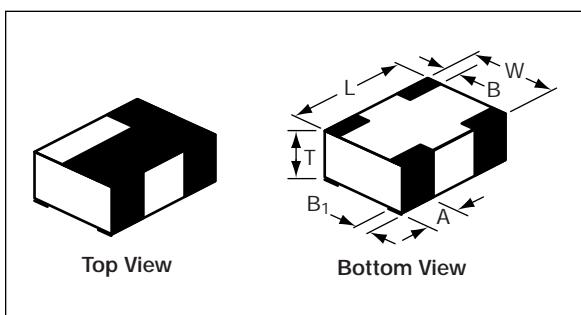
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #122. Visit our website <http://www.avxcorp.com>

Thin-Film Directional Couplers

CP0603 Type



Dimensions: millimeters (inches)



	0603
L	1.6±0.1 (0.063±0.004)
W	0.84±0.1 (0.033±0.004)
T	0.60±0.1 (0.028±0.004)
A	0.35±0.15 (0.014±0.006)
B	0.175±0.1 (0.007±0.004)
B1	0.00+0.1/-0.0 (0.000+0.004/-0.0)

HOW TO ORDER

CP 0603 A 0836 AW

① ② ③ ④ ⑤ ⑥

① Style: Directional Couplers

② Size: 0603

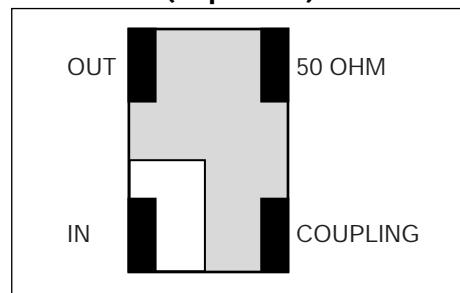
③ Type: (see below)

④ Frequency: MHz

⑤ Sub Type: (see below)

⑥ Termination: Nickel/Solder (Sn/Pb)

Terminals (Top View)



Note: All coupler types are designed to be used at any frequency within the 800MHz to 2500MHz range. The part numbers listed are only examples for typical applications.

Coupler Part Number CP0603AxxxxAW

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss [dB] max	VSWR max
AMPS	CP0603A0836AW	824 ~ 849	18.5±1	0.25	1.2
	CP0603A0881AW	869 ~ 894	18.5±1		
GSM	CP0603A0902AW	890 ~ 915	18±1	0.3	1.3
	CP0603A0947AW	935 ~ 960	17.5±1		
PDC	CP0603A1441AW	1429 ~ 1453	14±1	0.5	1.3
PCN	CP0603A1747AW	1710 ~ 1785	12.5±1		
	CP0603A1842AW	1805 ~ 1880	12±1	0.8	1.2
PCS	CP0603A1880AW	1850 ~ 1910	12±1		
	CP0603A1960AW	1930 ~ 1990	11.5±1	1.1	1.3
PHP	CP0603A1907AW	1895 ~ 1920	12±1		
DECT	CP0603A1890AW	1880 ~ 1900	12±1	1.2	1.3
Wireless LAN	CP0603A2442AW	2400 ~ 2484	10±1		

Coupler Part Number CP0603AxxxxBW

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss [dB] max	VSWR max
AMPS	CP0603A0836BW	824 ~ 849	16±1	0.25	1.2
	CP0603A0881BW	869 ~ 894	15.5±1		
GSM	CP0603A0902BW	890 ~ 915	15.5±1	0.45	1.3
	CP0603A0947BW	935 ~ 960	15±1		
PDC	CP0603A1441BW	1429 ~ 1453	11.5±1	0.8	1.2
PCN	CP0603A1747BW	1710 ~ 1785	10±1		
	CP0603A1842BW	1805 ~ 1880	9.5±1	1.1	1.3
PCS	CP0603A1880BW	1850 ~ 1910	9±1		
	CP0603A1960BW	1930 ~ 1990	9±1	1.2	1.3
PHP	CP0603A1907BW	1895 ~ 1920	9±1		
DECT	CP0603A1890BW	1880 ~ 1900	9±1	1.4	1.5
Wireless LAN	CP0603A2442BW	2400 ~ 2484	7.5±1		

Coupler Part Number CP0603AxxxxCW

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss [dB] max	VSWR max
AMPS	CP0603A0836CW	824 ~ 849	21±1	0.25	1.2
	CP0603A0881CW	869 ~ 894	20.5±1		
GSM	CP0603A0902CW	890 ~ 915	20.5±1	0.35	1.3
	CP0603A0947CW	935 ~ 960	20±1		
PDC	CP0603A1441CW	1429 ~ 1453	16.5±1	0.5	1.3
PCN	CP0603A1747CW	1710 ~ 1785	15±1		
	CP0603A1842CW	1805 ~ 1880	14.5±1	1.1	1.3
PCS	CP0603A1880CW	1850 ~ 1910	14.5±1		
	CP0603A1960CW	1930 ~ 1990	14±1	1.2	1.3
PHP	CP0603A1907CW	1895 ~ 1920	14.5±1		
DECT	CP0603A1890CW	1880 ~ 1900	14.5±1	1.4	1.5
Wireless LAN	CP0603A2442CW	2400 ~ 2484	12.5±1		

Coupler Part Number CP0603AxxxxDW

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss [dB] max	VSWR max
AMPS	CP0603A0836DW	824 ~ 849	15.5±1	0.35	1.2
	CP0603A0881DW	869 ~ 894	15±1		
GSM	CP0603A0902DW	890 ~ 915	14.5±1	0.9	1.5
	CP0603A0947DW	935 ~ 960	14±1		
PDC	CP0603A1441DW	1429 ~ 1453	10.5	1.1	1.3
PCN	CP0603A1747DW	1710 ~ 1785	9±1		
	CP0603A1842DW	1805 ~ 1880	8.5±1	1.2	1.3
PCS	CP0603A1880DW	1850 ~ 1910	8.5±1		
	CP0603A1960DW	1930 ~ 1990	8±1	1.4	1.5
PHP	CP0603A1907DW	1895 ~ 1920	8.5±1		
DECT	CP0603A1890DW	1880 ~ 1900	8.5±1	1.5	1.6
Wireless LAN	CP0603A2442DW	2400 ~ 2484	6.5±1		

Coupler Part Number CP0603BxxxxAW

Application	Part Number	Frequency Band (MHz)	Coupling (dB)	L Loss [dB] max	VSWR max
AMPS	CP0603B0836AW	824 ~ 849	24±1	0.2	1.2
	CP0603B0881AW	869 ~ 894	24±1		
GSM	CP0603B0902AW	890 ~ 915	23.5±1	0.25	1.2
	CP0603B0947AW	935 ~ 960	23.5±1		
PDC	CP0603B1441AW	1429 ~ 1453	20±1	0.5	1.3
PCN	CP0603B1747AW	1710 ~ 1785	18±1		
	CP0603B1842AW	1805 ~ 1880	18±1	1.1	1.3
PCS	CP0603B1880AW	1850 ~ 1910	17.5±1		
	CP0603B1960AW	1930 ~ 1990	17.5±1	1.2	1.4
PHP	CP0603B1907AW	1895 ~ 1920	17.5±1		
DECT	CP0603B1890AW	1880 ~ 1900	17.5±1	1.3	1.5
Wireless LAN	CP0603B2442AW	2400 ~ 2484	15±1		

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #123. Visit our website <http://www.avxcorp.com>

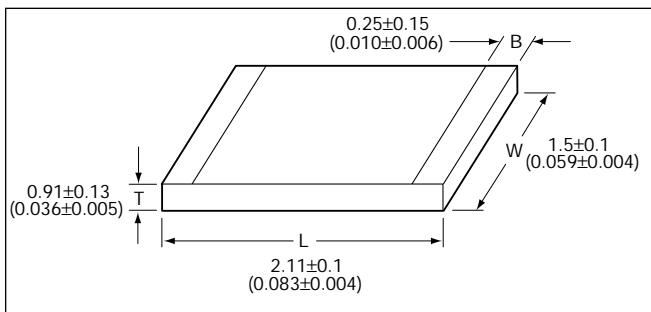


High Frequency Inductor

Accu-L® – Size 0805 – Surface Mount



Dimensions:



HOW TO ORDER

L 0805 1R8 D EW TR
 ① ② ③ ④ ⑤ ⑥

- ① Type
- ② EIA Chip Size
- ③ Inductance Code: (nH)

④ Tolerance:
 $C = \pm 0.2\text{nH}$ $D = \pm 0.5\text{nH}$
 $G = \pm 2\%$ $J = \pm 5\%$

⑤ Termination: Ni/Solder (Sn 63, Pb 37)

⑥ Standard Packaging: Tape and reel
 $(7'' = 3,000 \text{ pcs}; 13'' = 10,000 \text{ pcs.})$

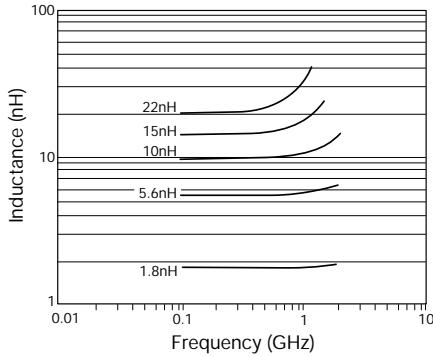
Part Number	450 MHz Test Freq.			900 MHz Test Freq.			1700 MHz Test Freq.			2400 MHz Test Freq.			SRF min (MHz)	R_{dc} max (Ω)	I_{dc} max		
	Inductance Tol.	L (nH)	Q Typical	L (nH)	Q Typical	L (nH)	Q Typical	L (nH)	Q Typical	L (nH)	Q Typical	L (nH)	Q Typical		$\Delta 15^\circ\text{C}$ (1)	$\Delta 70^\circ\text{C}$ (2)	
L08051R2□EW	$\pm 0.2 \pm 0.5 \text{nH}$	1.2	60	1.2	92	1.2	122	1.2	92	10000	0.05	1000	2000				
L08051R5□EW	$\pm 0.2 \pm 0.5 \text{nH}$	1.5	50	1.5	74	1.5	102	1.5	84	10000	0.05	1000	2000				
L08051R8□EW	$\pm 0.2 \pm 0.5 \text{nH}$	1.8	50	1.8	72	1.8	88	1.9	73	10000	0.06	1000	2000				
L08052R2□EW	$\pm 0.2 \pm 0.5 \text{nH}$	2.2	42	2.2	62	2.2	82	2.3	72	10000	0.07	1000	2000				
L08052R7□EW	$\pm 0.2 \pm 0.5 \text{nH}$	2.7	42	2.7	62	2.8	80	2.9	70	10000	0.08	1000	2000				
L08053R3□EW	$\pm 0.2 \pm 0.5 \text{nH}$	3.3	38	3.3	46	3.4	48	3.5	57	10000	0.11	750	1500				
L08053R9□EW	$\pm 0.2 \pm 0.5 \text{nH}$	3.9	27	3.9	36	4.0	38	4.1	42	10000	0.20	750	1500				
L08054R7□EW	$\pm 0.2 \pm 0.5 \text{nH}$	4.7	43	4.8	62	5.3	76	5.8	60	5500	0.10	750	1500				
L08055R6□EW	$\pm 0.2 \pm 0.5 \text{nH}$	5.6	50	5.7	68	6.3	73	7.6	62	4600	0.10	750	1500				
L08056R8□EW	$\pm 0.2 \pm 0.5 \text{nH}$	6.8	43	7.0	62	7.7	71	9.4	50	4500	0.11	750	1500				
L08058R2□EW	$\pm 0.2 \pm 0.5 \text{nH}$	8.2	43	8.5	56	10.0	55	15.2	32	3500	0.12	750	1500				
L0805100□EW	$\pm 2\%, \pm 5\%$	10	46	10.6	60	13.4	52	—	—	2500	0.13	750	1500				
L0805120□EW	$\pm 2\%, \pm 5\%$	12	40	12.9	50	17.3	40	—	—	2400	0.20	750	1500				
L0805150□EW	$\pm 2\%, \pm 5\%$	15	36	16.7	46	27.0	23	—	—	2200	0.20	750	1000				
L0805180□EW	$\pm 2\%, \pm 5\%$	18	36	18.8	37	—	—	—	—	1700	0.35	500	1000				
L0805220□EW	$\pm 2\%, \pm 5\%$	22	36	23.5	33	—	—	—	—	1400	0.40	500	1000				

□ : C = $\pm 0.2\text{nH}$, D = $\pm 0.5\text{nH}$, G = $\pm 2\%$, J = $\pm 5\%$.

(1) I_{dc} measured for 15°C rise at 25°C ambient temperature

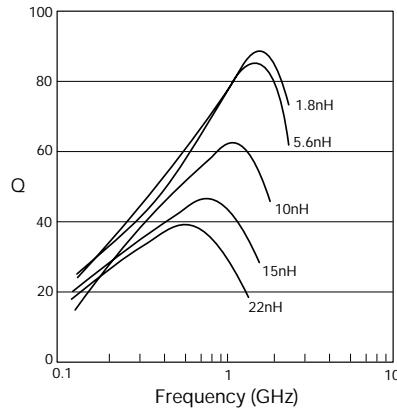
(2) I_{dc} measured for 70°C rise at 25°C ambient temperature

Inductance vs. Frequency (Typical)



Measured on Wiltron 360 Vector Analyzer

Q vs. Frequency (Typical)



Measured on Wiltron 360 Vector Analyzer

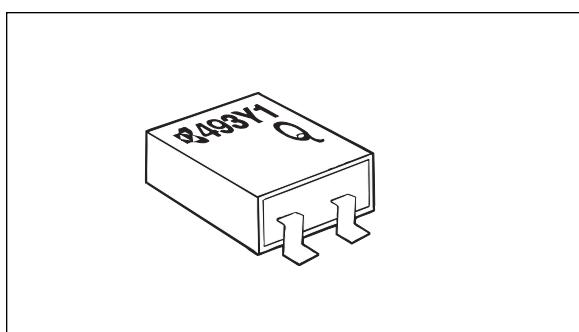
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #124. Visit our website <http://www.avxcorp.com>

KBR-Y kHz Band SMT Ceramic Resonators

KBR-Y Series

AVX

f_0 : 380 to 1050kHz



HOW TO ORDER

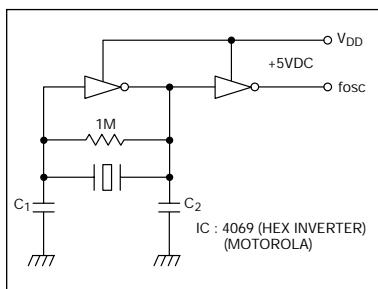
KBR - 455 Y TR
 ① ② ③ ④

- ① **Type:** (Kyocera Bulk Resonator)
- ② **Oscillation Frequency:** 380 to 1050 kHz
- ③ **Resonator Type:** Y = surface mountable
- ④ **Standard Packaging:** TR = tape and reel
(13" = 1000 pcs)

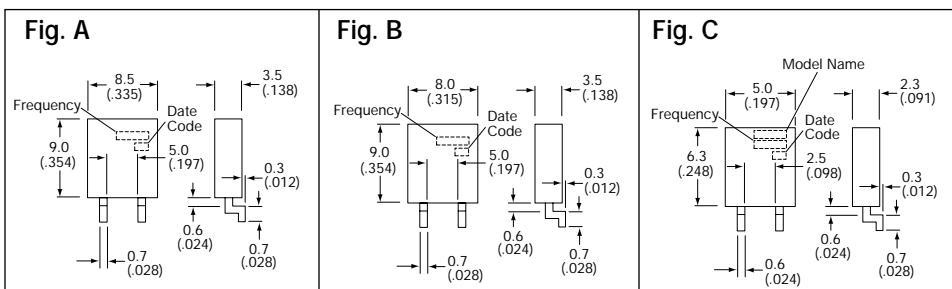
Specifications

	Fig. A	Fig. B		Fig. C	
Frequency Range	380 to 430kHz	440 to 525kHz	600 to 655kHz	795 to 815kHz	960 to 1050kHz
Frequency Tolerance	$\pm 0.5\%$				
Resonant Impedance	20Ω Max.	20Ω Max.	50Ω Max.	70Ω Max.	100Ω Max.
Anti-resonant Impedance	30kΩ Min.	35kΩ Min.	50kΩ Min.	70kΩ Min.	70kΩ Min.
Temperature Characteristics (-20 to +80°C)	$\pm 0.3\%$				
C ₁	100pF	100pF	100pF	100pF	100pF
C ₂	470pF	100pF	100pF	100pF	100pF

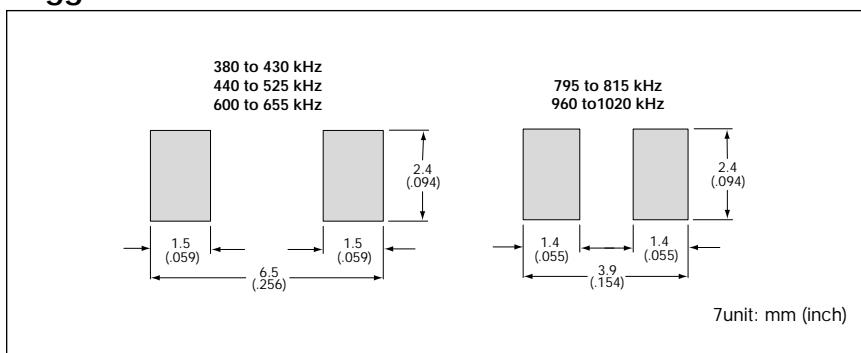
Test Circuit



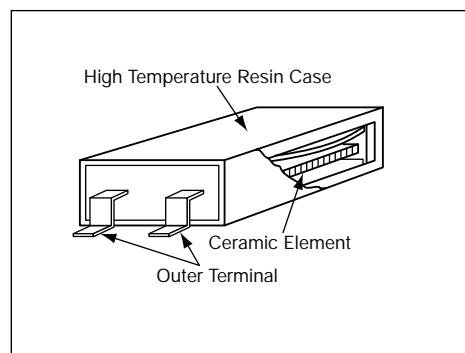
Dimensions: millimeters (inches)



Suggested Land Patterns



Structure



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #125. Visit our website <http://www.avxcorp.com>

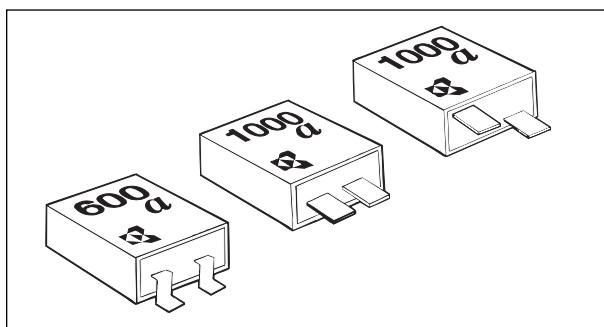
AVX

kHz Band Leaded Ceramic Resonators



KBR -B, -BK, -F Series

f_0 : 190 to 1050kHz



HOW TO ORDER

KBR - 455 BK TS

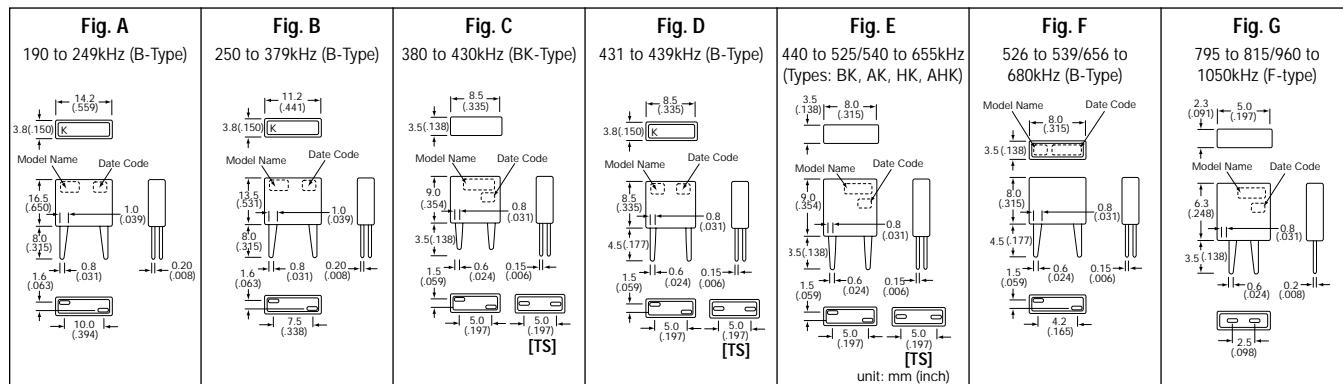
① ② ③ ④

- ① Type: (Kyocera Bulk Resonator)
- ② Oscillation Frequency: 190 to 1020kHz
- ③ Resonator Types: B/BK = 190 to 680kHz
F = 795 to 1050kHz
- ④ Lead Style: Blank = standard
TS = Single in-line
TL = formed lead

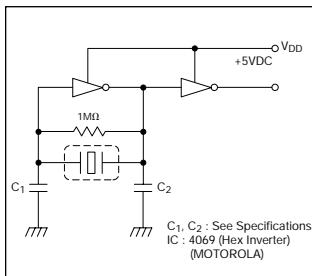
Specifications

Fig.	Frequency Range	Series	Frequency Tolerance	Resonant Impedance	Anti-Resonant Impedance	C ₁	C ₂	Temperature Stability (-20 ~ +80°C)	Standard Oscillating Frequency	Case Color		
Fig. A	190 ~ 249kHz	B	±0.5%	20Ω max	25kΩ min	330pF	470pF	±0.3%	200KHz	Blue		
Fig. B	250 ~ 379kHz				30kΩ min	220pF			300KHz			
Fig. C	380 ~ 430kHz				35kΩ min	100pF			400KHz			
Fig. D	431 ~ 439kHz			50Ω max	50kΩ min	100pF	100pF		-			
Fig. E	440 ~ 525kHz				70Ω max	70kΩ min			455,480,500KHz			
Fig. F	526 ~ 539kHz				100Ω max	100pF			540,560KHz			
Fig. E	540 ~ 599kHz	BK		50Ω max	50kΩ min	100pF			600,640KHz			
Fig. F	600 ~ 655kHz				680KHz	100pF			680KHz			
Fig. F	656 ~ 680kHz	B		70Ω max	70kΩ min	100pF			800KHz	Green		
Fig. G	795 ~ 815kHz	F			100Ω max	100pF			1000KHz			
	960 ~ 1050kHz											

Dimensions: millimeters (inches)



Test Circuit



Lead Type	Lead Shape	Frequency Range					
		B-Type		BK-Type		F-Type	
TS		380 to 430 kHz		440 to 525 kHz		795 to 815 kHz	
		440 to 525 kHz	540 to 655 kHz	440 to 525 kHz	540 to 655 kHz	960 to 1050 kHz	Single in-line is standard for F Series
TL		190 to 379 kHz	3.0	3.0	3.5	5.0	795 to 815 kHz
		431 to 439 kHz	4.5	6.0	3.5	5.0	960 to 1050 kHz
		526 to 539 kHz	4.5	6.0	3.5	5.0	
		656 to 680 kHz	4.5	6.0	3.5	5.0	

*Dimensions in mm.

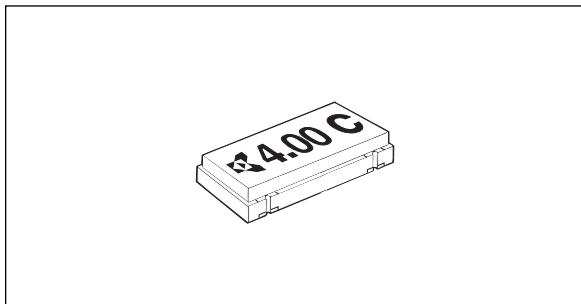
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #126. Visit our website <http://www.avxcorp.com>

MHz Band SMT Resonators

PBRC-A Series



f_0 : 2.00 to 8.00MHz



HOW TO ORDER

PBRC 4.00 A R

① ② ③ ④

① **Type:** (Piezo, Bulk Resonator, SMD)

② **Oscillation Frequency:** (MHz)

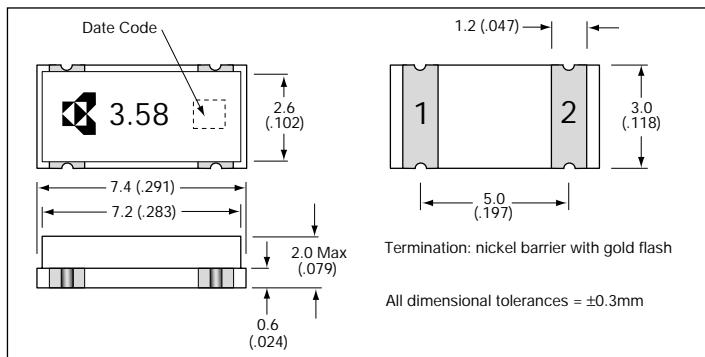
③ **Resonator Type:** A = without capacitor

④ **Packaging:** R = tape and reel (10" = 2000 pcs.)

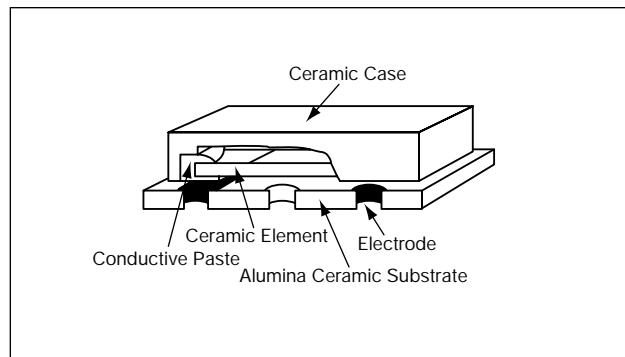
Specifications

Frequency Range	2.00 to 8.00MHz
Frequency Tolerance	$\pm 0.5\%$
Resonant Resistance	200Ω Max. at 2.00 ~ 2.90MHz 100Ω Max. at 3.00 ~ 3.57MHz 30Ω Max. at 3.58 ~ 8.00MHz
Temperature Characteristics (-20 to +80°C)	$\pm 0.3\%$

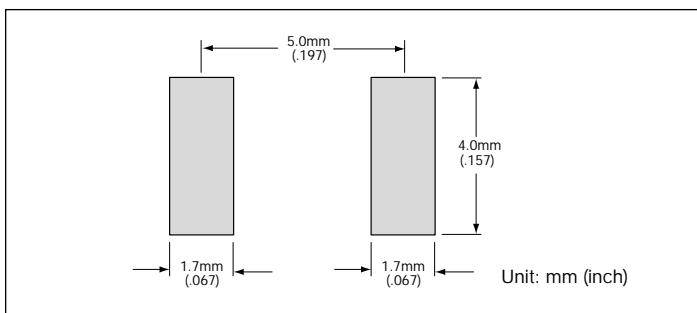
Dimensions: millimeters (inches)



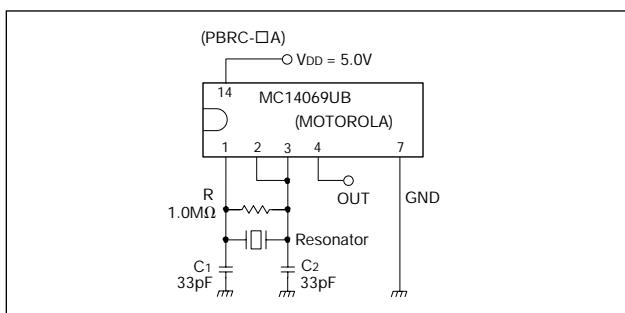
Structure



Recommended Land Pattern



Test Circuit



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #127. Visit our website <http://www.avxcorp.com>



MHz Band SMT Resonators with Built-in Capacitor

PBRC-B Series



f_0 : 2.00 to 36.00MHz



HOW TO ORDER

PBRC 3.58 B R

① ② ③ ④

① Type: (Piezo, Bulk Resonator, SMD)

② Oscillation Frequency: (MHz)

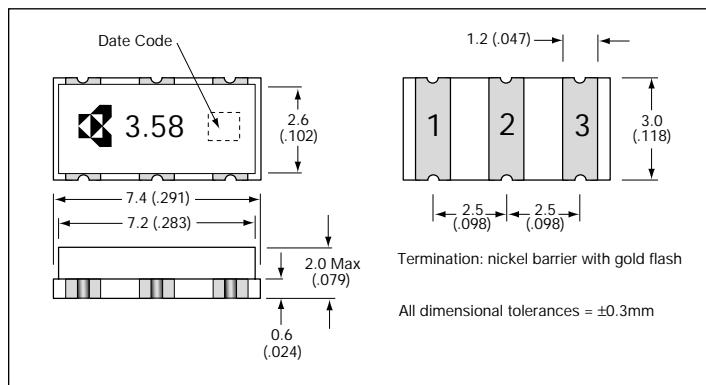
③ Resonator Type: B = with capacitor

④ Packaging: R = tape and reel (10" = 2000 pcs.)

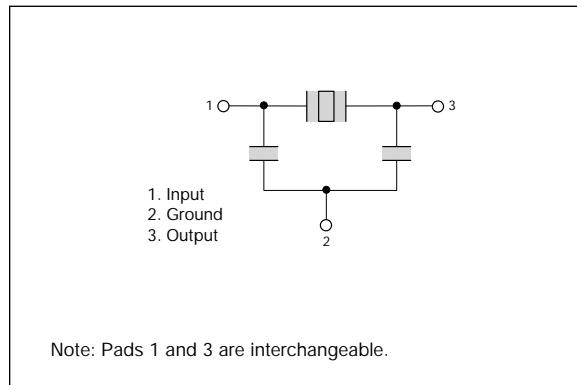
Specifications

Frequency Range	2.00 to 8.00MHz	8.01 to 36.00MHz
Load Capacitor	33pF (typ.)	10pF (typ)
Frequency Tolerance	$\pm 0.5\%$	$\pm 0.7\%$
Resonant Resistance	30Ω Max.	150Ω Max.
Temperature Characteristics (-20 to +80°C)	$\pm 0.3\%$	$\pm 0.1\%$

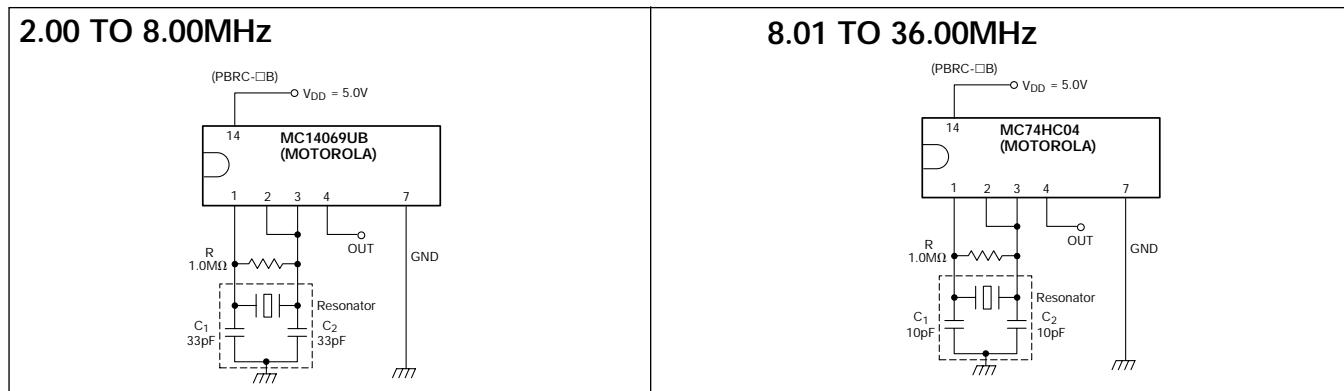
Dimensions: millimeters (inches)



Pad Connection



Test Circuit



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #128. Visit our website <http://www.avxcorp.com>

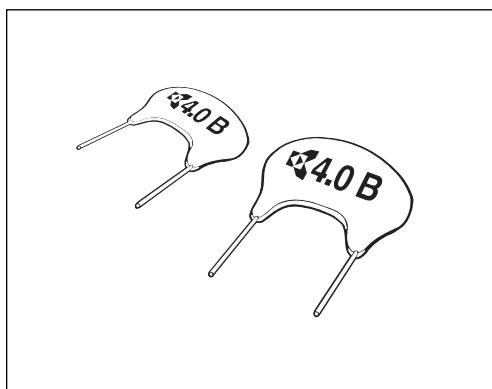


MHz Band Leaded Ceramic Resonators

KBR, -M, -MS, -MSA, -MSB Series

AVX

f_0 : 2.00 to 12.00MHz



HOW TO ORDER

KBR - 4.00 MSA TR

① ② ③ ④

① Type: (Kyocera Bulk Resonator)

② Oscillation Frequency: (MHz)

③ Resonator Type: M = 6.01 to 12.00MHz
MS = 2.00 to 3.57MHz
MSA = 3.58 to 8.00MHz (Water Resistance)

MSB = 3.58 to 6.00MHz (No Clean)

④ Packaging: TR= tape and reel (14" = 2000 pcs)
Blank = Bulk (2000 pcs)

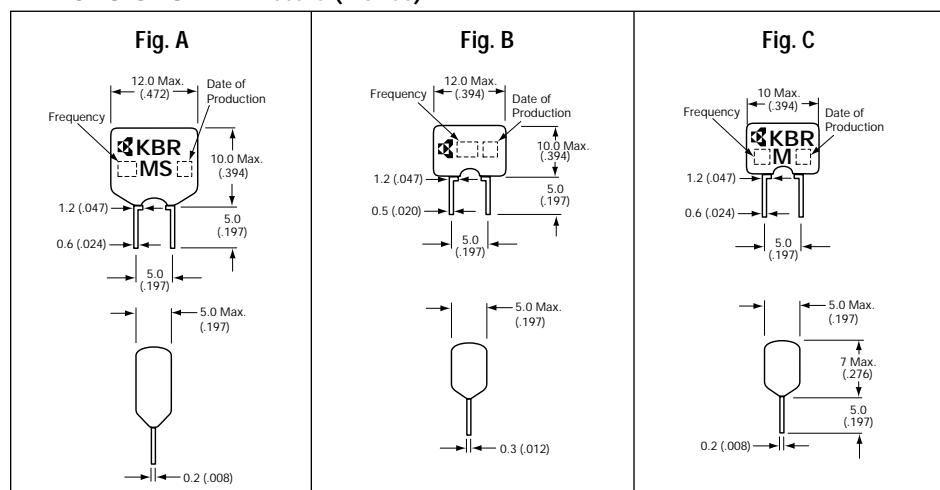
Specifications

Series	MS	MSA/MSB	M
Dimension	Fig. A	Fig. B	Fig. C
Frequency Range	2.00 to 3.50MHz	3.51 to 8.00MHz	8.01 to 12.00MHz
Frequency Tolerance	$\pm 0.5\%$	0.5%	$\pm 0.5\%$
Resonant Resistance	100 Ω Max.	30 Ω Max.	40 Ω Max.
Temperature Characteristics			

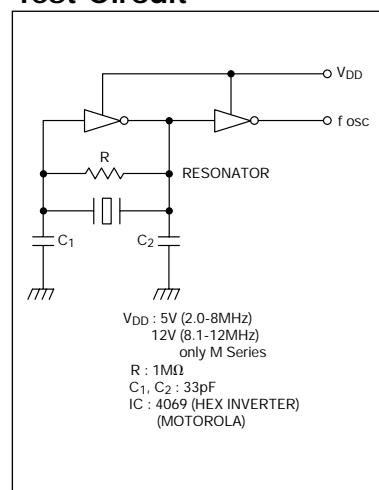
KBR-3.58MSA - 200 Series for Telephone D.T.M.F. Applications

P/N	Frequency	Frequency Tolerance	Resonant Resistance	Temperature Stability (-20 to +80°C)	Dimensions
KBR-3.58MSA-201	3.5795MHz	+0 -0.25%	30 Ω Max.	$\pm 0.3\%$	Fig. B
KBR-3.58MSA-202		+0.15 -0.10%			
KBR-3.58MSA-203		+0.30 -0.05%			
KBR-3.58MSA-204		+0.45 +0.20%			
KBR-3.58MSA-205		+0.60 +0.35%			
KBR-3.58MSA-206		-0.30 -0.55%			
KBR-3.58MSA-207		-0.15 -0.40%			

Dimensions: millimeters (inches)



Test Circuit



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #129. Visit our website <http://www.avxcorp.com>

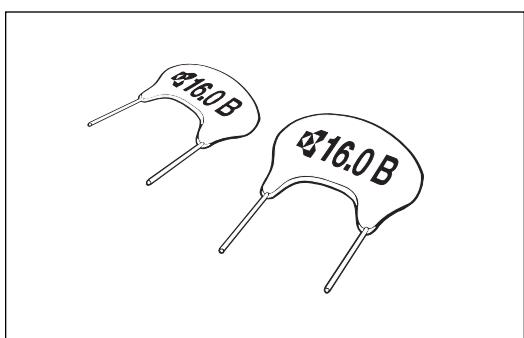
AVX

High Frequency MHz Band Ceramic Resonators

AVX

KBR-MY, -MSA Series

f_Q : 12.01 to 36.00MHz



HOW TO ORDER

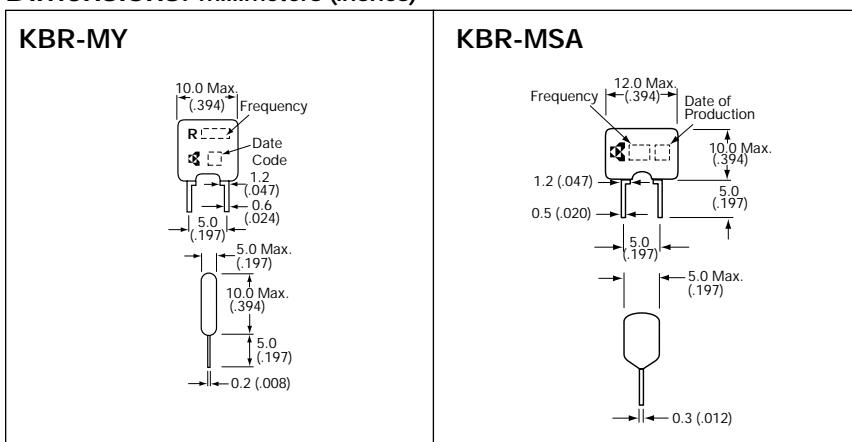
KBR - 16.00 MY TR

- ① Type: (Kyocera Bulk Resonator)
 - ② Oscillation Frequency: (MHz)
 - ③ Resonator Type: MY = 12.01 to 15.90MHz
 MSA = 16.00 to 36.00MHz
 - ④ Standard Packaging: Blank = Bulk (2000 pcs)
 TR = tape and reel (14" = 2000 pcs)

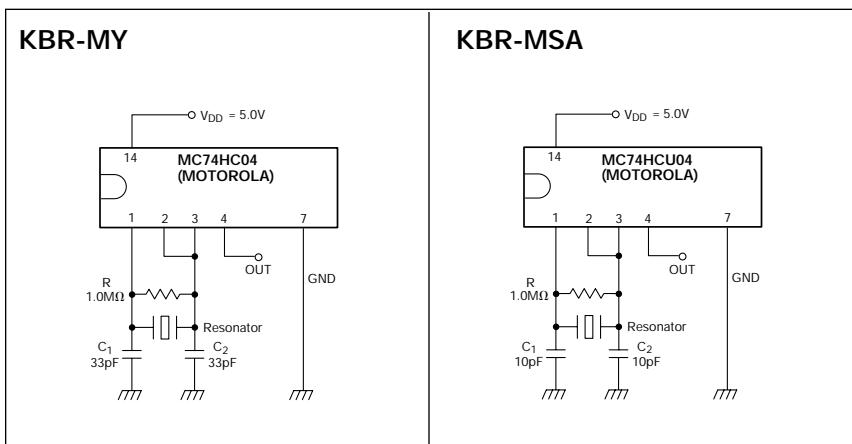
Specifications

	MY	MSA
Frequency Range	12.01 to 15.90MHz	16.00 to 36.00MHz
Frequency Tolerance	$\pm 0.5\%$	$\pm 0.5\%$
Resonant Resistance	30Ω Max.	30Ω Max.
Temperature Characteristics (-20 to +80°C)	$\pm 0.3\%$ Max.	$\pm 0.3\%$ Max.

Dimensions: millimeters (inches)



Test Circuit

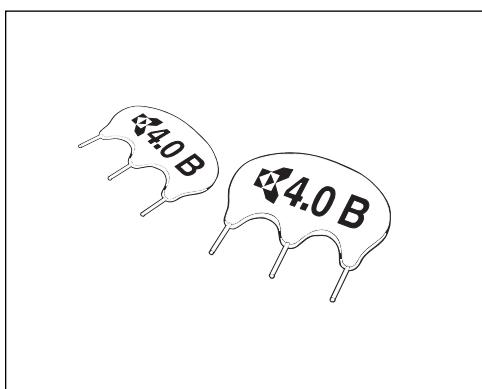


Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #130. Visit our website <http://www.avxcorp.com>

Built-in Capacitor MHz Band Ceramic Resonators **AVX**

KBR-MKC/MKD Series

f_0 : 3.58 to 36.00MHz



HOW TO ORDER

KBR - 4.00 MKC TR

① ② ③ ④

① Type: (Kyocera Bulk Resonator)

② Oscillation Frequency: (MHz)

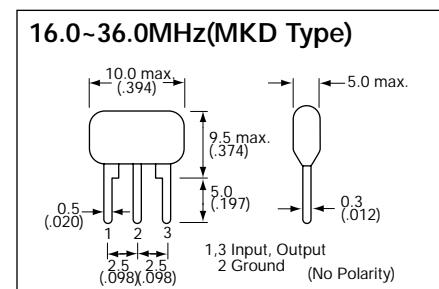
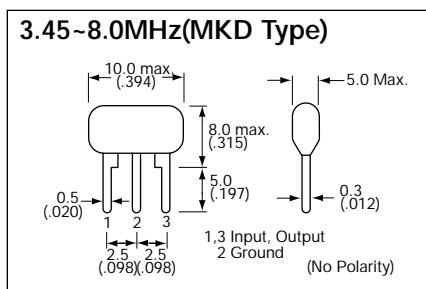
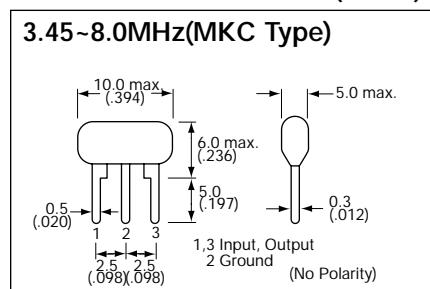
③ Resonator Type: MKC = built-in capacitor (No Clean)
MKD = built-in capacitor (Water Resistance)

④ Standard Packaging: Blank = Bulk (2000 pcs)
TR = tape and reel (14" = 2000 pcs)

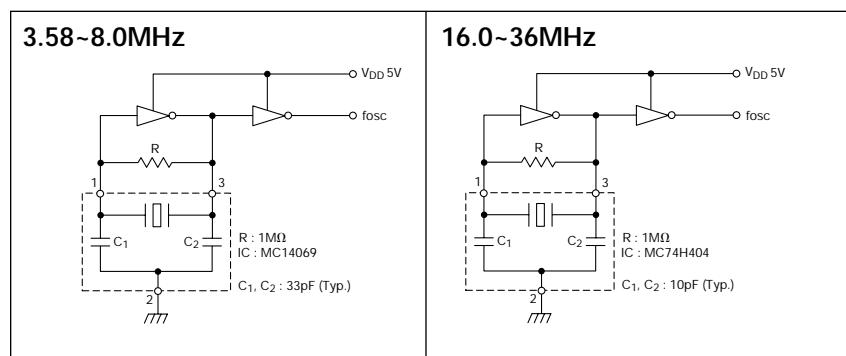
Specifications

	MKC/MKD	MKD
Frequency Range	3.58 to 8.00MHz	16.00 to 36.00MHz
Frequency Tolerance	$\pm 0.5\%$	$\pm 0.5\%$
Resonant Resistance	30Ω	30Ω
Temperature Characteristics (-20 to +80°C)	$\pm 0.5\%$	$\pm 0.3\%$

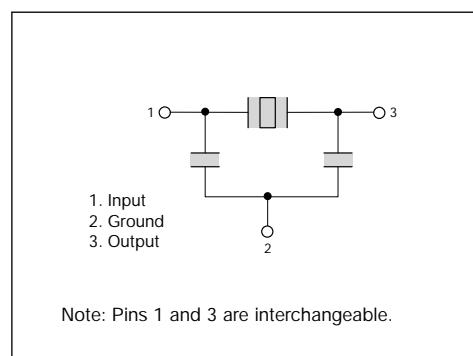
Dimensions: millimeters (inches)



Test Circuit



Pin Connection



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #131. Visit our website <http://www.avxcorp.com>

AVX

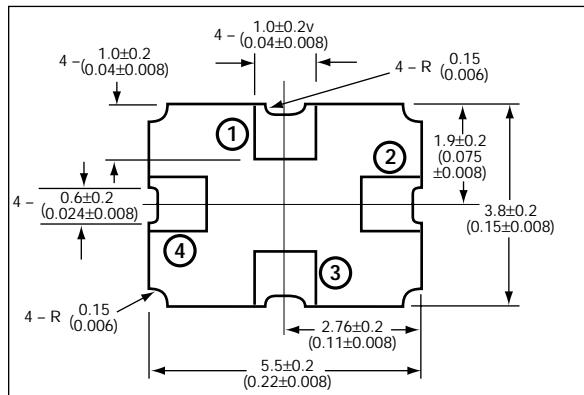
SAW Resonators

PAR Series SMT MHz Band



f_0 : 300 to 450MHz

Dimensions: millimeters (inches)



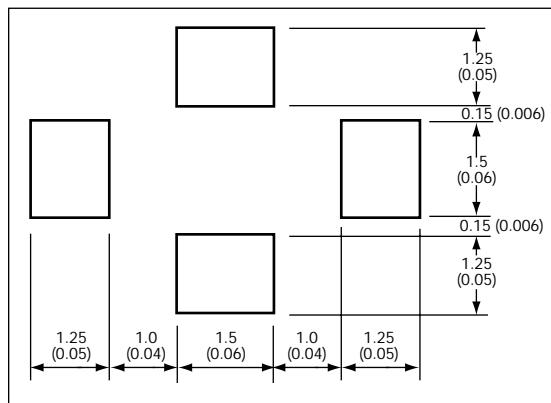
Pin	Function
①	Hot
②	NC
③	Hot
④	NC

Specifications (PARS)

Part Number	Resonant Frequency (MHz)	Resonant Loss (dB)	Parallel Capacitance (pF)
PARS 304,45LXXR	304,45	2.5 max.	4.0 max.
PARS 310,00KXXR	310,00	2.5 max.	4.0 max.
PARS 314,00KXXR	314,00	2.5 max.	3.2 max.
PARS 314,50LXXR	314,50	2.5 max.	3.2 max.
PARS 315,00KXXR	315,00	2.5 max.	3.2 max.
PARS 320,65KXXR	320,65	2.5 max.	3.2 max.
PARS 423,22KXXR	423,22	2.5 max.	3.2 max.
PARS 432,92KXXR	432,92	2.5 max.	3.2 max.
PARS 432,42LXXR	433,42	2.5 max.	3.2 max.
PARS 433,92KXXR	433,92	2.5 max.	3.2 max.

Recommended Land Pattern:

millimeters (inches)



Marking Code

Resonant Frequency MHz	Marking Code
304,45	304 L
310,00	310 K
314,00	314 K
314,50	314 L
315,00	315 K
320,65	320 K
423,22	423 K
432,92	432 K
433,42	433 L

Monthly Code



(4 digits
Frequency Marking)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #132. Visit our website <http://www.avxcorp.com>

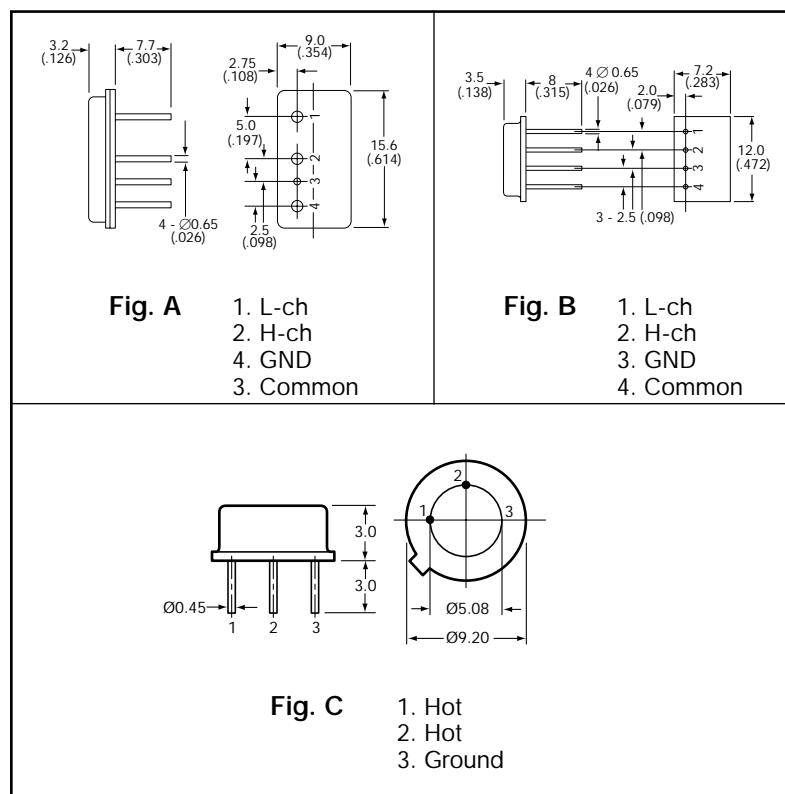
SAW Resonators

KAR Series MHz Band

AVX

f_0 : 46 to 315MHz

Dimensions: millimeters (inches)



HOW TO ORDER

KAR - 91 CS

① ② ③

① Type: (Kyocera Acoustic Resonator)

② Oscillation Frequency: (MHz)

③ Resonator Type:

CS, CT = small packaging
CB, CD = standard packaging
CK = round packaging

Specifications (KAR -□-□)

	Channel*	Resonant Frequency (MHz)**	Resonant Loss (dB)	Parallel Capacitance (pF)	Temperature Stability -10°C to +60°C (ppm/°C)	Dimension
KAR-55CD	U- <u>2</u> <u>3</u>	55.24±0.08 61.24±0.08	5.0 MAX	3.8±1 3.9±1	±8	Figure A
KAR-83CB	U- <u>5</u> <u>6</u>	77.24±0.08 83.24±0.08	4.0 MAX	4.5±1 4.2±1	±7	
KAR-55CB	W- <u>3</u> <u>4</u>	55.24±0.08 62.24±0.08	5.0 MAX	4.3±1 3.7±1	±8	
KAR-86CB	A- <u>3</u> <u>4</u>	86.24±0.08 95.24±0.08	3.0 MAX	4.2±1 4.0±1	±5	
KAR-85CB	O- <u>4</u> <u>5</u>	85.24±0.08 93.24±0.08	3.0 MAX	4.2±1 4.0±1	±5	
KAR-61CT	U- <u>3</u> <u>4</u>	61.24±0.08 67.24±0.08	5.0 MAX	4.4±1 4.2±1	±8	Figure B
KAR-77CS	O- <u>3</u> <u>4</u>	77.24±0.08 83.24±0.08	4.5 MAX	3.1±1 2.8±1	±8	
KAR-91CS	J- <u>1</u> <u>2</u>	91.24±0.08 97.24±0.08	3.0 MAX	4.0±1	±5	
KAR-211CS	U-13	211.24±0.15	2.7 MAX	3.0±1	±8	
KAR-315CS	US	315.24±0.25	2.5 MAX	3.2 MAX	±8	
KAR-315CK	US	315.24±0.25	2.5 MAX	3.2 MAX	±8	Figure C

*J: Japan, U: USA, W: Germany, A: Australia, O: East Europe

**Other frequencies available on request.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #133. Visit our website <http://www.avxcorp.com>

AVX

SAW Resonators

KAR Series MHz Band



f_0 : 46 to 315MHz

Specifications (KAR -□-□)

Part Number	Resonant Frequency (MHz)	Resonant Loss (dB)	Parallel Capacitance (pF)	Temperature Stability (ppm/°C)	Dimension
KAR-303CS	303.875±0.250	2.5 max.	4.0 max.	± 8 max.	Fig. B
KAR-304CS	304.300±0.250		3.2 max.		
KAR-310CS	310.000±0.250		2.3 max.		
KAR-314CS	314.000±0.250		2.3 max.		
KAR-314CT	314.500±0.250		2.3 max.		
KAR-315CS	315.000±0.250		2.3 max.		
KAR-320CS	320.650±0.250		2.3 max.		
KAR-345CS	345.000±0.250		2.3 max.		
KAR-359CS	359.900±0.250		2.3 max.		
KAR-417CS	417.500±0.250		2.3 max.		
KAR-418CS	418.000±0.250		2.3 max.		
KAR-423CS	423.220±0.250		2.3 max.		
KAR-432CS	432.920±0.250	2.5 max.	4.0 max.	± 8 max.	Fig. C
KAR-433CS	433.920±0.250		3.2 max.		
KAR-433CT	433.420±0.250		3.2 max.		
KAR-479CS	479.500±0.500		3.2 max.		
KAR-303CK	303.875±0.250		3.2 max.		
KAR-304CK	304.300±0.250		3.2 max.		
KAR-310CK	310.000±0.250		3.2 max.		
KAR-314CK	314.000±0.250		3.2 max.		
KAR-314CL	314.500±0.250		3.2 max.		
KAR-315CK	315.000±0.250		3.2 max.		
KAR-320CK	320.650±0.250		3.2 max.		
KAR-345CK	345.000±0.250		3.2 max.		
KAR-359CK	359.900±0.250		3.2 max.		
KAR-417CK	417.500±0.250		3.2 max.		
KAR-418CK	418.000±0.250		3.2 max.		
KAR-423CK	423.220±0.250		3.2 max.		
KAR-432CK	432.920±0.250		3.2 max.		
KAR-433CK	433.920±0.250		3.2 max.		
KAR-433CL	433.420±0.250		3.2 max.		
KAR-479CK	479.500±0.500		3.2 max.		
KAR-303CF	303.875±0.250	2.5 max.	4.0 max.	± 8 max.	Fig. D
KAR-304CF	304.300±0.250		3.2 max.		
KAR-310CF	310.000±0.250		3.2 max.		
KAR-314CF	314.000±0.250		3.2 max.		
KAR-314CG	314.500±0.250		3.2 max.		
KAR-315CF	315.000±0.250		3.2 max.		
KAR-320CF	320.650±0.250		3.2 max.		
KAR-345CF	345.000±0.250		3.2 max.		
KAR-359CF	359.900±0.250		3.2 max.		
KAR-417CF	417.500±0.250		3.2 max.		
KAR-418CF	418.000±0.250		3.2 max.		
KAR-423CF	423.220±0.250		3.2 max.		
KAR-432CF	432.920±0.250		3.2 max.		
KAR-433CF	433.920±0.250		3.2 max.		
KAR-433CG	433.420±0.250		3.2 max.		
KAR-479CF	479.500±0.500		3.2 max.		

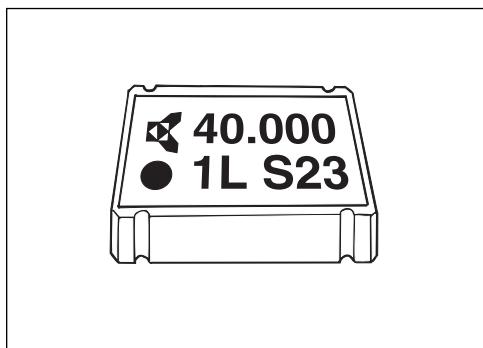
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #134. Visit our website <http://www.avxcorp.com>

Crystal Clock Oscillators - Miniature SMT

K50-HC-CS Series: HCMOS Drive - TTL/CMOS Compatible



f_0 : 8 to 68MHz



HOW TO ORDER

K50-HC 1 - CS E 40.0000M R

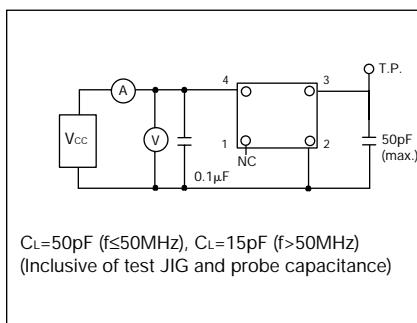
① ② ③ ④ ⑤ ⑥

- ① Type: (K50-HC series)
- ② Stability: 1-100ppm, 0-50ppm
- ③ Output Compatibility: CS = CMOS 45/55 duty cycle @ 50% V_{DD}
- ④ Tristate Output: E with function
- ⑤ Frequency: (MHz)
- ⑥ Standard Packaging: R = tape and reel (1k per reel)

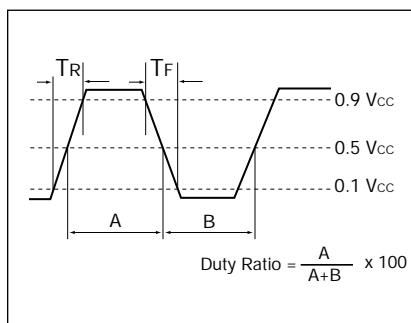
Specifications

CLASSIFICATION	CODE	RATING	UNIT	REMARKS
Output Frequency	f_{OUT}	8~68	MHz	—
Frequency Precision	$\Delta f/f$	$\pm 100, \pm 50$	ppm	Inclusive of Temp, Load, Voltage variation
Aging Rate	$\Delta f/f$	± 5	ppm/y	—
Operating Temp.	T_{OPR}	-10~70	°C	—
Storage Temp.	T_{STR}	-55~125	°C	—
Supply Voltage	V_{CC}	5 ± 0.5	V	—
Supply Current	I_{CC}	50 max.	mA	$C_L=50\text{pF}$, $\text{Temp.}=25^\circ\text{C}$, $f=50\text{MHz}$
Duty Ratio	S_y	45~55	%	0.5 V_{CC} DC Level
Output 0 Level	V_{OL}	0.1 V_{CC} max.	V	$I_{OL}=16\text{mA}$
Output 1 Level	V_{OH}	0.9 V_{CC} min.	V	$I_{OH}=-16\text{mA}$
Rise/Fall Time	T_R, T_F	10 max.	nsec	0.1 V_{CC} -0.9 V_{CC}
Load Capacitance	C_L	50 max. ($f \leq 50\text{MHz}$), 15 max. ($f > 50\text{MHz}$)	pF	—
Enable/Disable Time	—	100 max.	nsec	—
Input Voltage Low	V_{IL}	0.8 max.	V	—
Input Voltage High	V_{IH}	2.2 min.	V	—

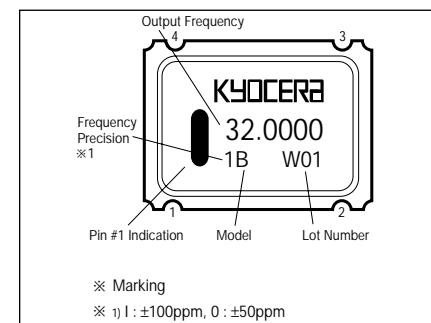
Test Circuit



Output Waveform



Marking Specifications



Pin Connection

Pad #	Function
1	CONTROL
2	CASE GND
3	OUTPUT
4	+V _{CC}

Enable / Disable

Pin #1	Pin #3
"H" or Open	Oscillation
"L"	High impedance

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #135. Visit our website <http://www.avxcorp.com>

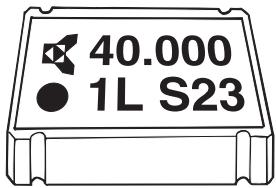


Crystal Clock Oscillators - Miniature SMT

K50-3C Series: 3.3Volt

AVX

f_O : 8 to 68MHz



HOW TO ORDER

K50-3C 1 - E 40.000M R

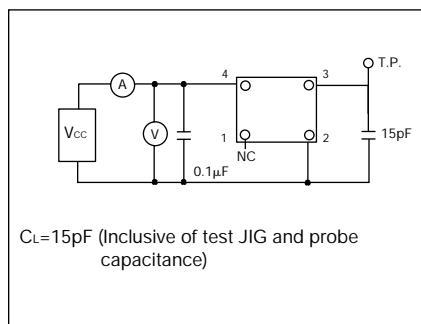
① ② ③ ④ ⑤

- ① Type: (K50-3C series)
- ② Stability: 1-100ppm, 0-50ppm
- ③ Tristate Output: E with function
- ④ Frequency: (MHz)
- ⑤ Standard Packaging: R = tape and reel (1k per reel)

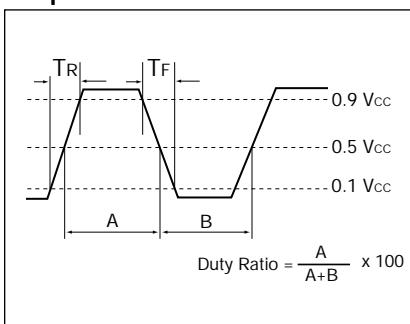
Specifications

CLASSIFICATION	CODE	RATING	UNIT	REMARKS
Output Frequency	f_{OUT}	8~68	MHz	-----
Frequency Precision	$\Delta f/f$	$\pm 100, \pm 50$	ppm	Inclusive of Temp, Load, Voltage variation
Aging Rate	$\Delta f/f$	± 5	ppm/y	-----
Operating Temp.	T_{OPR}	-10~70	°C	-----
Storage Temp.	T_{STR}	-55~125	°C	-----
Supply Voltage	V_{cc}	3.3 ± 0.3	V	-----
Supply Current	I_{cc}	25 max.	mA	$C_L=15pF$, Temp.=25°C, $f=68MHz$
Duty Ratio	Sy	40~60	%	0.5V _{cc} DC Level
Output 0 Level	V_{OL}	0.1V _{cc} max.	V	$I_{OL}=8mA$
Output 1 Level	V_{OH}	0.9V _{cc} min.	V	$I_{OH}=8mA$
Rise/Fall Time	T_R, T_F	10 max.	nsec	$0.1V_{cc} \sim 0.9V_{cc}$
Load Capacitance	C_L	15 max.	pF	-----
Enable/Disable Time	—	5	msec	$8 < f \leq 32MHz$
		150	nsec	$32 < f \leq 50MHz$
		5	msec	$50 < f \leq 68MHz$
Input Voltage Low	V_{IL}	0.5 max.	V	-----
Input Voltage High	V_{IH}	2.0 min.	V	-----

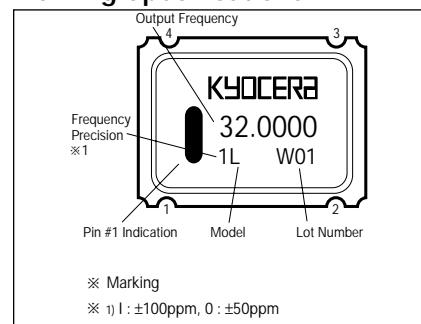
Test Circuit



Output Waveform



Marking Specifications



Pin Connection

Pad #	Function
1	CONTROL
2	CASE GND
3	OUTPUT
4	+Vcc

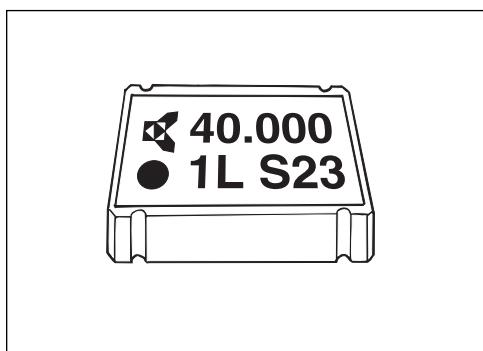
Enable / Disable

Pin #1	Pin #3
"H" or Open	Oscillation
"L"	High impedance or Oscillation Stop

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #136. Visit our website <http://www.avxcorp.com>

Crystal Clock Oscillators - Miniature SMT K50-CS Series: Low Power Consumption

AVX
 f_0 : 8 to 50MHz



HOW TO ORDER

K50-CS 1 - S E 40.0000M R

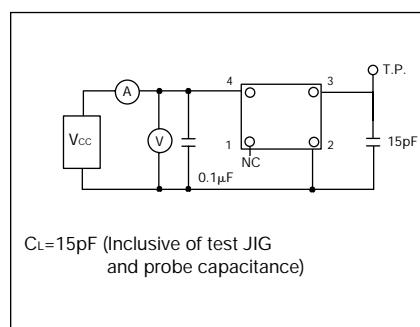
① ② ③ ④ ⑤ ⑥

- ① Type: (K50-CS series)
- ② Stability: 1-100ppm, 0-50ppm
- ③ Duty Cycle: 45 to 55%
- ④ Tristate Output: E with function
- ⑤ Frequency: (MHz)
- ⑥ Standard Packaging: R = tape and reel (1k per reel)

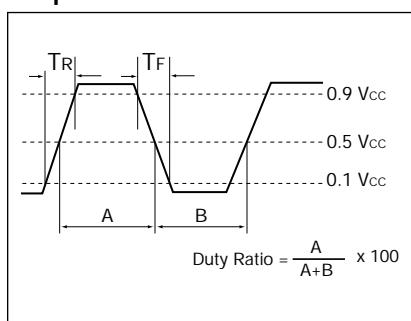
Specifications

CLASSIFICATION	CODE	RATING	UNIT	REMARKS
Output Frequency	f_{OUT}	8~50	MHz	—
Frequency Precision	$\Delta f/f$	$\pm 100, \pm 50$	ppm	Inclusive of Temp, Load, Voltage variation
Aging Rate	$\Delta f/f$	± 5	ppm/y	—
Operating Temp.	T_{OPR}	-10~70	°C	—
Storage Temp.	T_{STR}	-55~125	°C	—
Supply Voltage	V_{CC}	5±0.5	V	—
Supply Current	I_{CC}	30 max.	mA	$C_L=15pF, T_{op}=25^{\circ}C, f=50MHz$
Duty Ratio	S_y	45~55	%	0.5V _{CC} DC Level
Output 0 Level	V_{OL}	0.1V _{CC} max.	V	$I_{OL}=4mA$
Output 1 Level	V_{OH}	0.9V _{CC} min.	V	$I_{OH}=4mA$
Rise/Fall Time	T_R, T_F	10 max.	nsec	0.1V _{CC} ~0.9V _{CC}
Load Capacitance	C_L	15 max.	pF	—
Enable/Disable Time	—	100 max.	nsec	—
Input Voltage Low	V_{IL}	0.8 max.	V	—
Input Voltage High	V_{IH}	2.2 min.	V	—

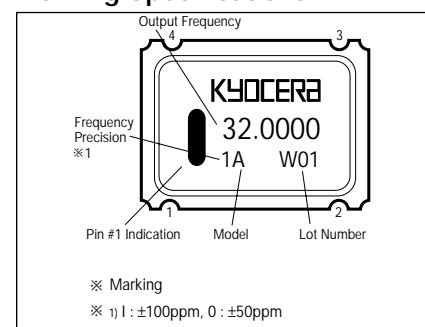
Test Circuit



Output Waveform



Marking Specifications



Pin Connection

Pad #	Function
1	CONTROL
2	CASE GND
3	OUTPUT
4	+V _{CC}

Enable / Disable

Pin #1	Pin #3
"H" or Open	Oscillation
"L"	High impedance

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #137. Visit our website <http://www.avxcorp.com>

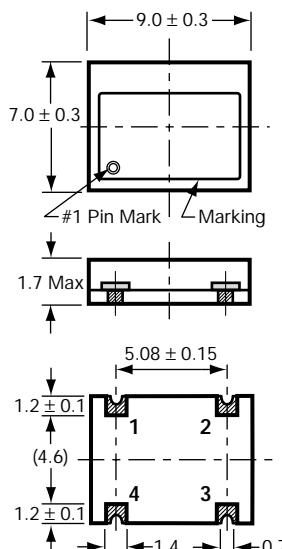
AVX

KT14 Series SMT Crystal Clock Oscillators

Temperature Compensated



KT14

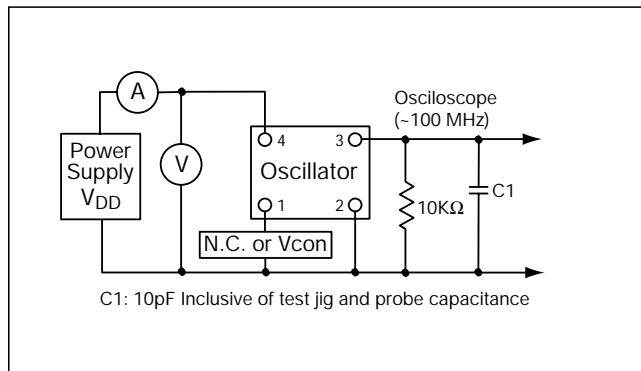


HOW TO ORDER

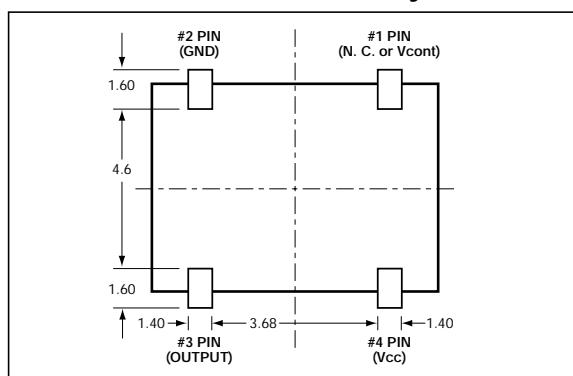
KT14 - E G R 28 N - 19.200M T
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① **Type**
- ② **Frequency Precision:**
D=±2ppm, E=±2.5ppm, K=±5ppm
- ③ **Lower Temperature Limit:**
C=-30°C; E=-20°C, G=-10°C
- ④ **Upper Temperature Limit:**
V=80°C; T=70°C; R=60°C
- ⑤ **Supply Voltage:** 28=2.8V, 30=3.0V;
- ⑥ **AFC Function:** V=with, N=without
- ⑦ **Output Frequency:** 12.8M, 13.0M, 14.4M, 14.85M, 16.8M, 19.2M, 19.44M, 19.68M
- ⑧ **Reel Packaging:** 2000 pcs per reel

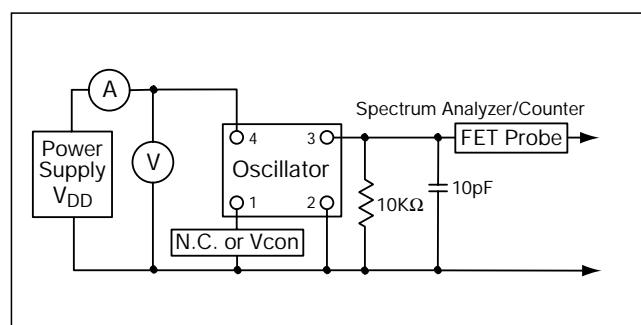
Test Circuit (Amplitude)



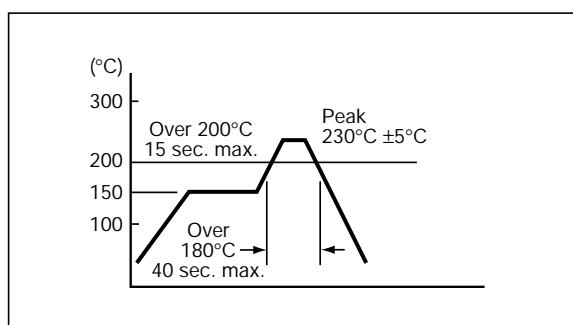
KT14 Recommended Pad Layout



Test Circuit (Harmonic Frequency)



Recommended Reflow Profile



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #138. Visit our website <http://www.avxcorp.com>

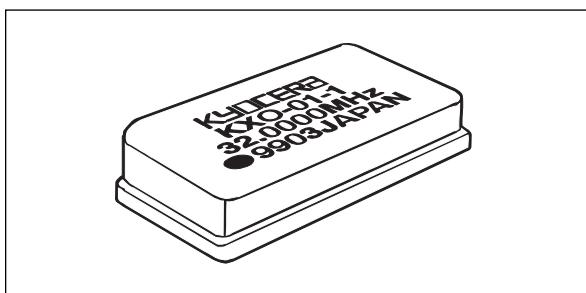
Crystal Clock Oscillators - Leaded



K XO-01 Series:

TTL DRIVE-TTL Compatible

f_0 : 8 to 50MHz



HOW TO ORDER

K XO-01 - 1 - 32.0000M T

① ② ③ ④

① Type: (Kyocera Crystal Oscillators)

② Frequency Precision: 0 = $\pm 50\text{ppm}$ (special)
1 = $\pm 100\text{ppm}$

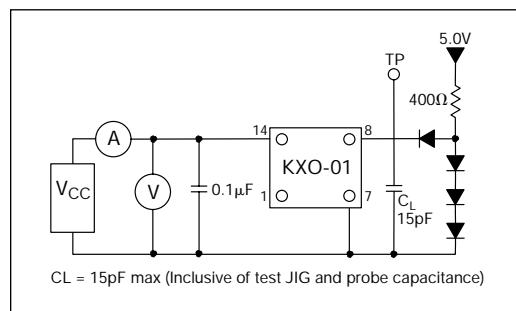
③ Frequency

④ Standard Packaging: T = tube (25 pcs.)

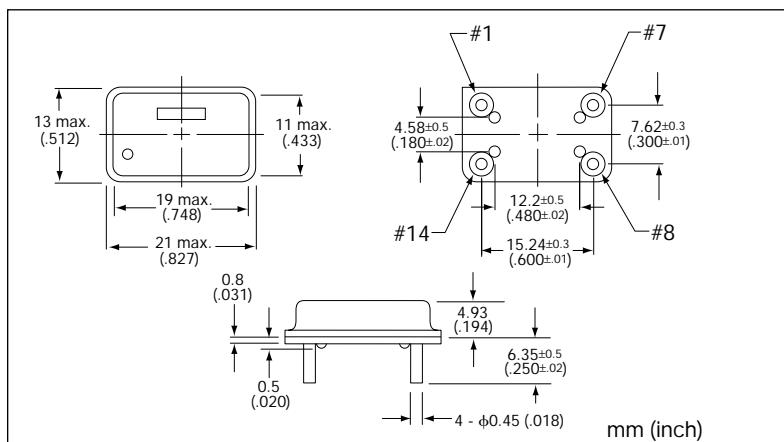
Specifications

CLASSIFICATION	CODE	RATING	UNIT	REMARKS
Output Frequency	f_{OUT}	8~50	MHz	—
Frequency Precision	$\Delta f/f$	0 : ± 50 1 : ± 100	ppm ppm	$T_a=0\text{--}+70^\circ\text{C}$
Aging Rate	$\Delta f/f$	± 5	ppm/y	—
Operating Temp.	T_{OPR}	0~+70	$^\circ\text{C}$	—
Storage Temp.	T_{STR}	-55~+125	$^\circ\text{C}$	—
Supply Voltage	V_{CC}	5 ± 0.5	V	—
Supply Current	I_{CC}	35 max.	mA	$C_L=15\text{pF}$, • 10TTL Load, Temp.=25°C
Output	Duty Ratio	Sy	%	1.4V DC Level
	Output 0 Level	V_{OL}	V	$I_{\text{OL}}=16\text{mA}$
	Output 1 Level	V_{OH}	V	$I_{\text{OH}}=400\mu\text{A}$
	Rise/Fall Time	$T_{\text{R}}, T_{\text{F}}$	nsec	8~32MHz 32.1~50MHz
Fan Out	—	1~10	TTL	—

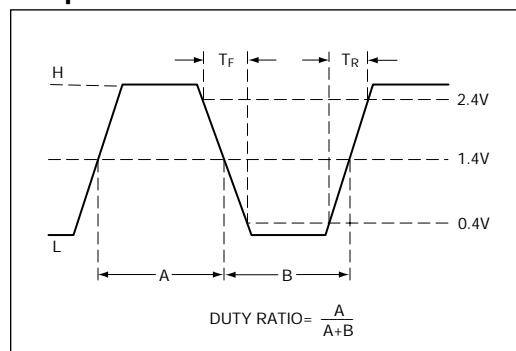
Test Circuit



Dimensions and PIN Identification



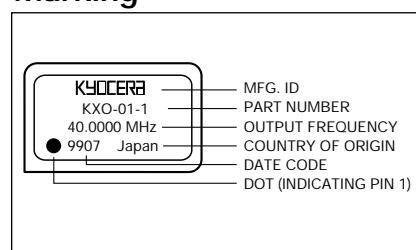
Output Wave



Pin Connection

Pad #	Function
1	N.C.
7	CASE GND
8	OUTPUT
14	V_{CC}

Marking



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #139. Visit our website <http://www.avxcorp.com>

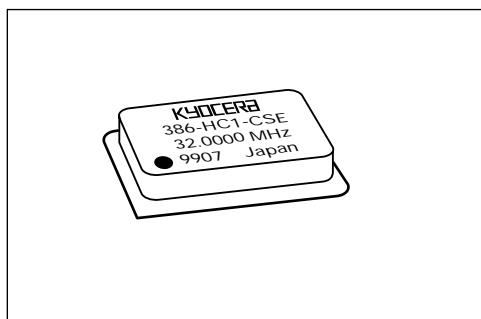


Crystal Clock Oscillators

AVX

386 Series: HCMOS Drive - CMOS Compatible

f_o : 24, 32, 40, 50MHz



HOW TO ORDER

386-HC 1 - C S E - 40.0000M T

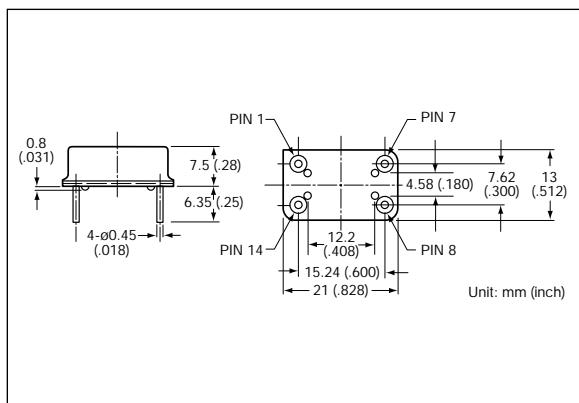
① ② ③ ④ ⑤ ⑥

- ① Type: 386 = 14 pin DIP
- ② Frequency Precision: 1 = ± 100 ppm
- ③ Output Level/Duty Cycle: CS = CMOS compatible/45 to 55%
- ④ Enable/Disable Function: = without function, E = with function
- ⑤ Frequency
- ⑥ Packaging: T = tube (25 pcs.)

Specifications

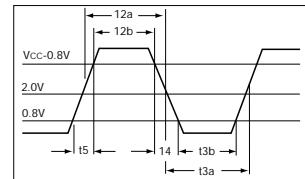
CLASSIFICATION	CODE	RATING	UNIT	REMARKS
Output Frequency	f_{out}	25, 32, 40, 50	MHz	$C_L=150\text{pF}$ max. (25, 32, 40MHz) $C_L=80\text{pF}$ max. (50MHz)
Frequency Precision (Inclusive of Temp. Voltage variation)	$\Delta f/f$	$1: \pm 100$	ppm	$T_a=0\text{~}+70^\circ\text{C}$
Aging Rate	$\Delta f/f$	± 5	ppm/year	—
Operating Temp.	T_{OPR}	$0\text{~}+70$	$^\circ\text{C}$	—
Storage Temp.	T_{STR}	$-55\text{~}+125$	$^\circ\text{C}$	—
Supply Voltage	V_{cc}	5 ± 0.25	V	—
Supply Current	I_{cc}	65 max.	mA	$CL=150\text{pF}$, $T_a=25^\circ\text{C}$
Output	Duty Ratio	Sy	%	0.5 V_{cc} DC Level
	Output 0 Level	V_{OL}	V	$ I_{OL} = 12\text{mA}$
	Output 1 Level	V_{OH}	V	$ I_{OH} = -1\text{mA}$
	Rise/Fall Time	T_R, T_F	See Clock Time Table	nsec
Time to Enable/Disable	—	100 max.	nsec	—
Input Current	$ I_{IH}$	10 max.	μA	$V_{CC}=5.25\text{V}$
	$ I_{IL}$	-150 max.	μA	$V_{CC}=5.25\text{V}$
Input Voltage	V_{IH}	2.2 min.	V	—
	V_{IL}	0.8 max.	V	—
Fan Out	—	7	TTL	—
Load Capacitance	C_L	150 80	pF pF	$f=25, 32, 40\text{MHz}$ $f=50\text{MHz}$

Dimensions



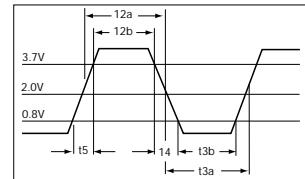
Clock Time Table (32MHz, 40MHz)

Frequency	32MHz		40MHz	
Clock time (ns)	Min	Max	Min	Max
Clock high time t2a	9	—	8	—
Clock high time t2b	5	—	5	—
Clock low time t3a	9	—	8	—
Clock low time t3b	7	—	6	—
Clock tall time t4	—	7.5	—	8
Clock rise time t5	—	7.5	—	8

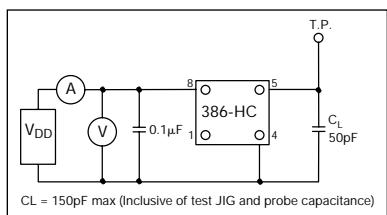


Clock Time Table (50MHz)

Frequency	50MHz	
Clock time (ns)	Min	Max
Clock high time t2a	7	—
Clock high time t2b	4	—
Clock low time t3a	7	—
Clock low time t3b	5	—
Clock tall time t4	—	7
Clock rise time t5	—	7



Test Circuit



Pin Connection

386	Function
1	N.C. or Control
7	Case GND
8	Output
14	V_{DD}

Markings

KYOCERA	MFG. ID
386-HC1-CSE	PART NUMBER
32.0000 MHz	OUTPUT FREQUENCY
9907	COUNTRY OF ORIGIN
Japan	DATE CODE
	DOT (INDICATING PIN 1)

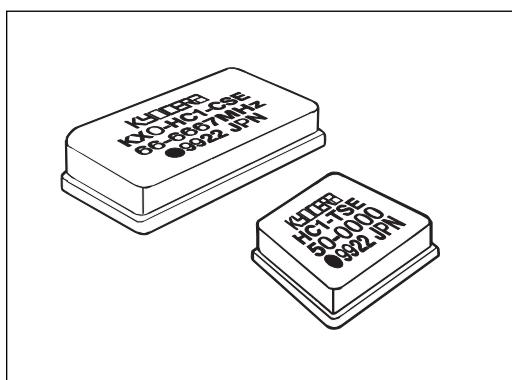
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #140. Visit our website <http://www.avxcorp.com>

AVX

Crystal Clock Oscillators - Leaded

KXO-HC/KHO-HC Series: HCMOS Drive -
TTL or CMOS Compatible

f_0 : 1 to 72MHz



HOW TO ORDER

KXO-HC 1-TS E - 32.0000M T

① ②③ ④ ⑤ ⑥

① **Type:** KXO = 14 pin DIP; KHO = 8 pin DIP

② **Frequency Precision:** S = $\pm 25\text{ppm}$ (special)
0 = $\pm 50\text{ppm}$
1 = $\pm 100\text{ppm}$

③ **Output Level/Duty Cycle:** TS = TTL compatible/45 to 55%
CS = CMOS compatible/45 to 55%

④ **Enable/Disable Function:** Blank = without function
E = with function

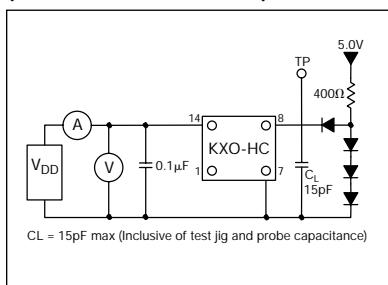
⑤ **Frequency**

⑥ **Standard Packaging:** T = tube (KXO-HC = 25 pcs.)
(KHO-HC = 40 pcs.)

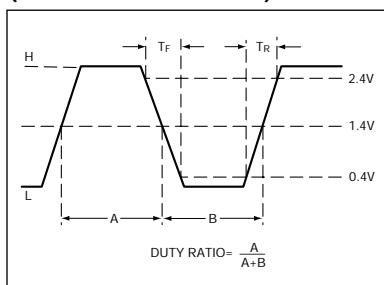
Specifications: TTL Compatible

CLASSIFICATION	CODE	RATING		UNIT	REMARKS
Output Frequency	f_{OUT}	1~50	50.1~72	MHz	—
Frequency Precision (Inclusive of Temp. Voltage variation)	$\Delta f/f$	0 : ± 50		ppm	$T_a=0\text{~}+70^\circ\text{C}$
Aging Rate	$\Delta f/f$	± 5		ppm/year	—
Operating Temp.	T_{OPR}	0~+70		$^\circ\text{C}$	—
Storage Temp.	T_{STR}	-55~+125		$^\circ\text{C}$	—
Supply Voltage	V_{CC}	5±0.5	5±0.25	V	—
Supply Current	I_{CC}	50 max.	70 max.	mA	$CL=15\text{pF} \bullet 10\text{TTL Load}, Ta=25^\circ\text{C}$
Output	Duty Ratio	Sy	45~55	%	1.4V DC Level
	Output 0 Level	V_{OL}	0.4 max.	V	$I_{\text{OL}}=16\text{mA}$
	Output 1 Level	V_{OH}	2.4 min.	V	$I_{\text{OH}}=-1\text{mA}$
	Rise/Fall Time	$T_{\text{R}}, T_{\text{F}}$	5.0 max.	3.5 max.	nsec $0.4\text{V}\text{--}2.4\text{V} CL=15\text{pF} \bullet 10\text{TTL Load}$
Time to Enable/Disable	—	100 max.		nsec	—
Input Current	I_{IH}	10 max.		μA	$V_{\text{CC}}=5.5\text{V}$
	I_{IL}	-150 max.		μA	$V_{\text{CC}}=5.5\text{V}$
Input Voltage	V_{IH}	2.2 max.		V	—
	V_{IL}	0.8 max.		V	—
Fan Out	—	10		TTL	—
Load Capacitance	CL	15 max.		pF	—

Test Circuit
(KXO-HC-T/KHO-HC-T)



Shape of Output Wave
(KXO-HC-T/KHO-HC-T)



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #141. Visit our website <http://www.avxcorp.com>

Crystal Clock Oscillators - Leaded

KXO-HC/KHO-HC Series HCMOS Drive - TTL or CMOS Compatible (*Continued*)

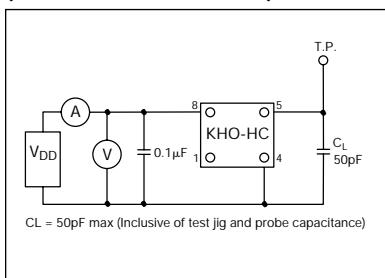
AVX

f_O : 1 to 72MHz

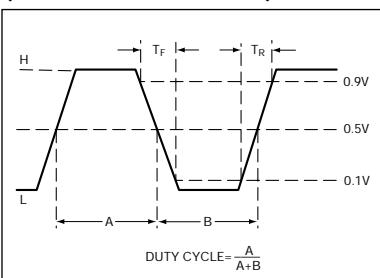
Specifications: CMOS Compatible

CLASSIFICATION	CODE	RATING		UNIT	REMARKS
Output Frequency	f_{OUT}	1~50	50.1~72	MHz	—
Frequency Precision (Inclusive of Temp. Voltage variation)	$\Delta f/f$	0 : ± 50		ppm	
		1 : ± 100		ppm	$T_a=0\text{--}+70^\circ\text{C}$
Aging Rate	$\Delta f/f$	± 5		ppm/year	—
Operating Temp.	T_{OPR}	$0\text{--}+70$		$^\circ\text{C}$	—
Storage Temp.	T_{STR}	$-55\text{--}+125$		$^\circ\text{C}$	—
Supply Voltage	V_{CC}	5 ± 0.5	5 ± 0.25	V	—
Supply Current	I_{CC}	50 max.	80 max.	mA	$CL=50\text{pF}, T_a=25^\circ\text{C}$
Output	Duty Ratio	S_y	45~55	%	0.5V $_{CC}$ DC Level
	Output 0 Level	V_{OL}	0.1V $_{CC}$ max.	V	$I_{OL} = 16\text{mA}$
	Output 1 Level	V_{OH}	0.9V $_{CC}$ min.	V	$I_{OH} = 1\text{mA}$
	Rise/Fall Time	T_R, T_F	10 max.	nsec	$0.1\text{cc}\text{--}0.9\text{cc} CL=50\text{pF}$
Time to Enable/Disable	—	100 max.		nsec	—
Input Current	I_{IH}	10 max.		μA	$V_{CC}=5.5\text{V}$
	I_{IL}	-150 max.		μA	$V_{CC}=5.5\text{V}$
Input Voltage	V_{IH}	2.2 max.		V	—
	V_{IL}	0.8 max.		V	—
Load Capacitance	C_L	50 max.		pF	—

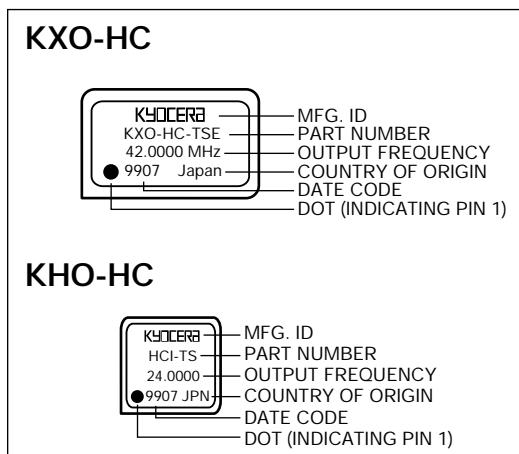
Test Circuit
(KXO-HC-C/KHO-HC-C)



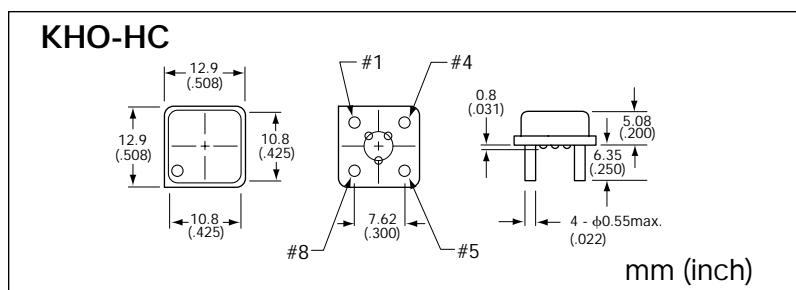
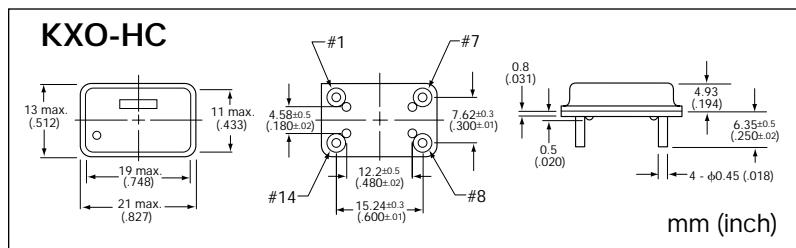
Shape of Output Wave
(KXO-HC-C/KHO-HC-C)



Markings



Dimensions and PIN Identification



Pin Connection

KXO	KHO	
1	1	N.C. or Control
7	4	Case/GND
8	5	Output
14	8	+5.0V D.C.

Enable / Disable Function Chart

Pin 1	Pin 8
High or Open	Oscillation
Low	High Impedance

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #142. Visit our website <http://www.avxcorp.com>

MIL-PRF-28861 /1, /4, /5, /12

Hermetically Sealed EMI Filters (B-level)



HOW TO ORDER

MIL-PRF-28861 /2 - 001

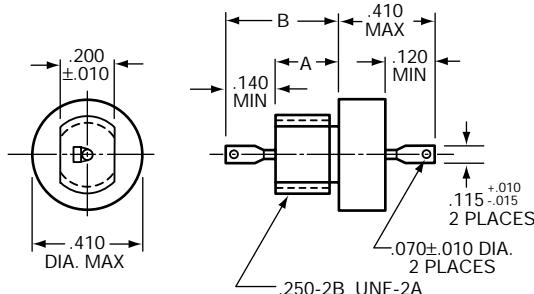
(1) (2) (3)

① Mil-Spec Number

② Slash Sheet

③ Dash Number

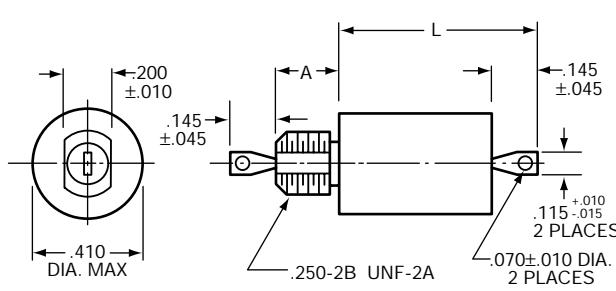
MIL-PRF-28861/1



Dash number	Circuit	Rated voltage		Min. capacitance (μF)
		DC volts	AC 1/ volts	
001, 011	L2	50	---	1.2
002, 012	C	50	---	1.2
003, 013	L2	70	---	0.7
004, 014	C	70	---	0.7
005, 015	L2	100	---	0.45
006, 016	C	100	---	0.45
009, 019	L2	200	125	0.15

Dash number	Circuit	Rated voltage		Min. capacitance (μF)
		DC volts	AC 1/ volts	
010, 020	C	200	125	0.15
021, 031	L2	200	125	0.01
022, 032	C	200	125	0.01
023, 033	L2	200	125	0.0027
024, 034	C	200	125	0.0027
025, 035	L2	200	125	0.001
026, 036	C	200	125	0.001

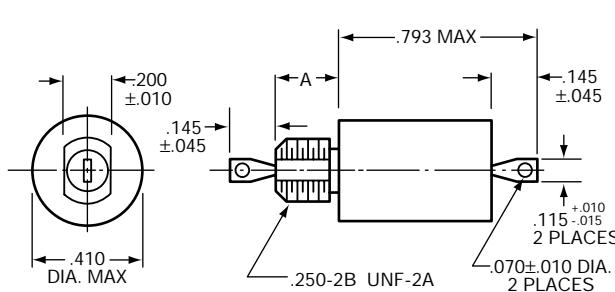
MIL-PRF-28861/4



Dash number	Circuit	Max. current (amps)	Min. capacitance (μF)	Max. voltage drop (volts)	Max. DC resistance (ohms)
				+	-
001, 019	L1	0.10	0.70	0.17	1.7
002, 020	L2	0.10	0.70	0.17	1.7
003, 021	π	0.10	1.4	0.17	1.7
004, 022	L1	0.30	0.70	0.23	0.77
005, 023	L2	0.30	0.70	0.23	0.77
006, 024	π	0.30	1.4	0.23	0.77
007, 025	L1	0.50	0.70	0.18	0.36
008, 026	L2	0.50	0.70	0.18	0.36
009, 027	π	0.50	1.4	0.18	0.36

Dash number	Circuit	Max. current (amps)	Min. capacitance (μF)	Max. voltage drop (volts)	Max. DC resistance (ohms)
				+	-
010, 028	L1	1.0	0.70	0.14	0.14
011, 029	L2	1.0	0.70	0.14	0.14
012, 030	π	1.0	1.4	0.14	0.14
013, 031	L1	3.0	0.70	0.15	0.05
014, 032	L2	3.0	0.70	0.15	0.05
015, 033	π	3.0	1.4	0.15	0.05
016, 034	L1	5.0	0.70	0.075	0.015
017, 035	L2	5.0	0.70	0.075	0.015
018, 036	π	5.0	1.4	0.075	0.015

MIL-PRF-28861/5

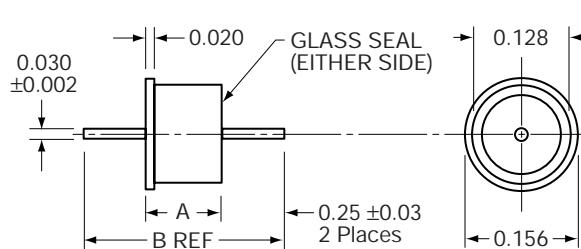


Dash number	Circuit	Max. current (amps)	Capacitance (μF) +100% -0%	Max. voltage drop (volts)	Max. DC resistance (ohms)
				+	-
001, 013	L1	0.25	0.15	0.375	1.5
002, 014	L2	0.25	0.15	0.375	1.5
003, 015	π	0.25	0.30	0.375	1.5
004, 016	L1	1.0	0.15	0.250	0.25
005, 017	L2	1.0	0.15	0.250	0.25
006, 018	π	1.0	0.30	0.250	0.25

Dash number	Circuit	Max. current (amps)	Capacitance (μF) +100% -0%	Max. voltage drop (volts)	Max. DC resistance (ohms)
				+	-
007, 019	L1	3.0	0.15	0.150	0.05
008, 020	L2	3.0	0.15	0.150	0.05
009, 021	π	3.0	0.30	0.150	0.05
010, 022	L1	5.0	0.15	0.075	0.015
011, 023	L2	5.0	0.15	0.075	0.015
012, 024	π	5.0	0.30	0.075	0.015

(See MIL-PRF-22861 for insertion loss and other specification details.)

MIL-PRF-28861/12



Dash number	Circuit	Max. current (amps)	Rated voltage volts dc	Capacitance (μF) -0,+100%
002, 018	C	5.0	50	15,000
003, 019	L	5.0	100	2,700
004, 020	C	5.0	100	2,700
005, 021	L	5.0	100	5,000
006, 022	C	5.0	100	5,000
008, 024	C	5.0	200	10
009, 025	L	5.0	200	25
010, 026	C	5.0	200	25
012, 028	C	5.0	200	100
013, 029	L	5.0	200	500
014, 030	C	5.0	200	500
034, 036	C	5.0	50	10,000

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #143. Visit our website <http://www.avxcorp.com>



EMI Filters



Miniature, Subminiature & Microminiature

Solder-In Style, C Type Specifications

	AVX Part Number	Voltage Vdc (V)	Min. Cap (pF)	Current Idc (A)	MINIMUM NO LOAD INSERTION LOSS (db) @ 25°C PER MIL-STD-220					
					10 MHZ	30 MHZ	100 MHZ	300 MHZ	1 GHZ	10 GHZ
ZXS	ZXS1C3-402	50	4000	1.5	15	20	30	35	45	60
	ZXS1C3-252	50	2500	1.5	10	15	25	30	40	60
	ZXS1A3-152	100	1500	1.5	5	12	22	27	35	55
	ZXS1A3-102	100	1000	1.5	4	10	20	25	31	55
	ZXS1A3-501	100	500	1.5	—	—	15	20	30	50
	ZXS1A3-251	100	250	1.5	—	—	9	15	25	40
	ZXS1A3-101	100	100	1.5	—	—	3	10	20	30
	ZXS1A3-500	100	50	1.5	—	—	1	6	15	25
ZYS	ZYS1C3-402	50	4000	2.5	15	20	30	35	45	60
	ZYS1C3-252	50	2500	2.5	10	15	25	30	40	60
	ZYS1A3-152	100	1500	2.5	5	12	22	27	35	55
	ZYS1A3-102	100	1000	2.5	4	10	20	25	31	55
	ZYS1A3-501	100	500	2.5	—	—	15	20	30	50
	ZYS1A3-251	100	250	2.5	—	—	9	15	25	40
	ZYS1A3-101	100	100	2.5	—	—	3	10	20	30
	ZYS1A3-500	100	50	2.5	—	—	1	6	15	25
ZZS	ZZS1C3-103	50	10,000	5	20	26	35	42	48	60
	ZZS1C3-502	50	5000	5	15	20	30	35	45	60
	ZZS1A3-252	100	2500	5	10	15	25	30	40	60
	ZZS1A3-152	100	1500	5	5	12	22	27	35	55
	ZZS1B3-102	200	1000	5	4	10	20	25	31	55
	ZZS1B3-501	200	500	5	—	—	15	20	30	50
	ZZS1B3-251	200	250	5	—	—	9	15	25	40
	ZZS1B3-101	200	100	5	—	—	3	10	20	30

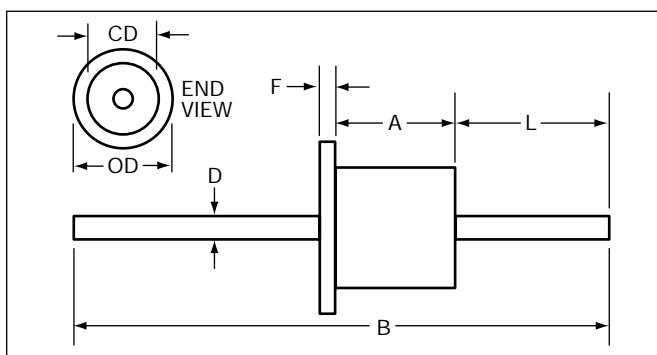
Screw-In Style, C Type 2-56 THD. Specifications

	AVX Part Number	Voltage Vdc (V)	Min. Cap (pF)	Current Idc (A)	MINIMUM NO LOAD INSERTION LOSS (db) @ 25°C PER MIL-STD-220					
					10 MHZ	30 MHZ	100 MHZ	300 MHZ	1 GHZ	10 GHZ
SX	SXD1C3-402	50	4000	3	15	20	30	35	45	60
	SXT1C3-252	50	2500	3	10	15	25	30	40	60
	SXT1A3-152	100	1500	3	5	12	22	27	35	55
	SXT1A3-102	100	1000	3	4	10	20	25	31	55
	SXT1A3-501	100	500	3	—	—	15	20	30	50
	SXT1A3-251	100	250	3	—	—	9	15	25	40
	SXT1A3-101	100	100	3	—	—	3	10	20	30
	SXT1A3-500	100	50	3	—	—	1	6	15	25
SY	SYD1C3-402	50	4000	3	15	20	30	35	45	60
	SYT1C3-252	50	2500	3	10	15	25	30	40	60
	SYT1A3-152	100	1500	3	5	12	22	27	35	55
	SYT1A3-102	100	1000	3	4	10	20	25	31	55
	SYT1A3-501	100	500	3	—	—	15	20	30	50
	SYT1A3-251	100	250	3	—	—	9	15	25	40
	SYT1A3-101	100	100	3	—	—	3	10	20	30
	SYT1A3-500	100	50	3	—	—	1	6	15	25
SZ	SZD1C3-502	50	5000	5	15	20	30	35	45	60
	SZT1A3-252	100	2500	5	10	15	25	30	40	60
	SZT1A3-152	100	1500	5	5	12	22	27	35	55
	SZT1A3-102	100	1000	5	4	10	20	25	31	55
	SZT1A3-501	100	500	5	—	—	15	20	30	50
	SZT1A3-251	100	250	5	—	—	9	15	25	40
	SZT1A3-101	100	100	5	—	—	3	10	20	30
	SZT1A3-500	100	50	5	—	—	1	6	15	25

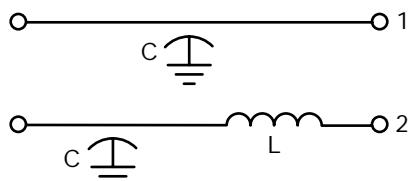
NOTE: Dimensions in inches (millimeters). Torque limiting tool with custom adapter required for proper installation (see front).

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #144. Visit our website <http://www.avxcorp.com>

EMI Filters – Solder-in Style ZZ, ZS, YS, XS, & WS Series



Circuit Diagrams



HOW TO ORDER

Z S 2 C 2 - 103 H
 ① ② ③ ④ ⑤ ⑥ ⑦

① AVX Style/Case Size

② Glass Seal Orientation:

S = non-flange end (standard)
 R = flange end (reverse)

③ Circuit (see diagrams to left):

1 = capacitor only ("C")
 2 = L – circuit ("C" and "L")

④ Voltage (VDC):

A = 100 B = 200 C = 50
 E = 400 L = 300

⑤ Lead Material:

2 = nickel iron (std)
 3 = special

⑥ 3 – Digit Capacitance Code (in pF):
 (e.g. "103" = 10,000 pF)

⑦ H = Standard High Temperature Design

Mechanical Dimensions: millimeters (inches)

Case Style	OD	CD	A1*	A2**	B1*	B2**	D	L	F
ZZ	3.56 (.140")	3.00 (.118")	2.80 (.110")	----	10.16 (.400")	----	0.76 (.030")	3.56 (.140")	0.51 (.020")
ZS / ZR	3.96 (.156")	3.25 (.128")	2.80 (.110")	5.08 (.200")	15.88 (.625")	18.16 (.715")	0.76 (.030")	6.35 (.250")	0.51 (.020")
YS / YR	5.08 (.200")	4.19 (.165")	3.81 (.150")	6.35 (.250")	16.51 (.650")	19.05 (.750")	0.81 (.032")	6.35 (.250")	0.64 (.025")
XS / XR	7.37 (.290")	6.35 (.250")	3.81 (.150")	6.35 (.250")	16.51 (.650")	19.05 (.750")	0.81 (.032")	6.35 (.250")	0.64 (.025")
WS / WR	11.43 (.450")	10.16 (.400")	5.08 (.200")	7.62 (.300")	17.78 (.700")	20.32 (.800")	1.27 (.050")	6.35 (.250")	0.64 (.025")

(*length for capacitor only; **length for "L-circuit")

Capacitance Range: picofarads (pF)

Case Style		50V	100V	200V	300V	400V
ZZ	min.	25	25	25	----	----
	max.	1500	1500	1000	----	----
ZS / ZR	min.	500	100	10	----	----
	max.	15,000	15,000	2700	----	----
YS / YR	min.	1500	1500	1500	----	----
	max.	100,000	75,000	27,000	----	----
XS / XR	min.	50,000	50,000	15,000	10,000	----
	max.	250,000	100,000	22,000	10,000	----
WS / WR	min.	150,000	150,000	50,000	----	10,000
	max.	1,200,000	1,000,000	150,000	----	50,000

Additional information on this and other styles of EMI filter products, including insertion loss curves, is available in AVX's catalog "AVX EMI Filters".

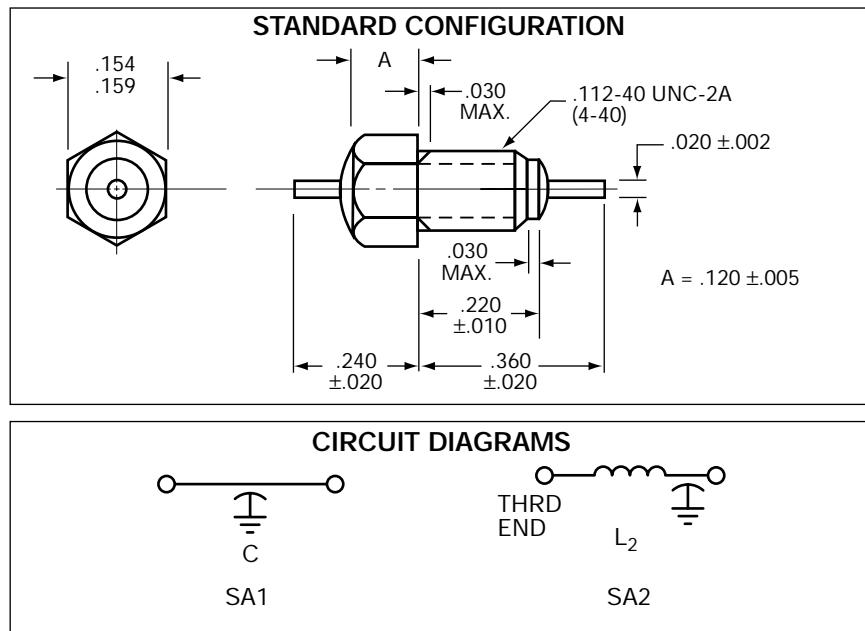
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #145. Visit our website <http://www.avxcorp.com>



Bolt Style EMI Filters



SA Series – 4-40 Thread - Epoxy Sealed – Circuits Available – C & L



Specifications

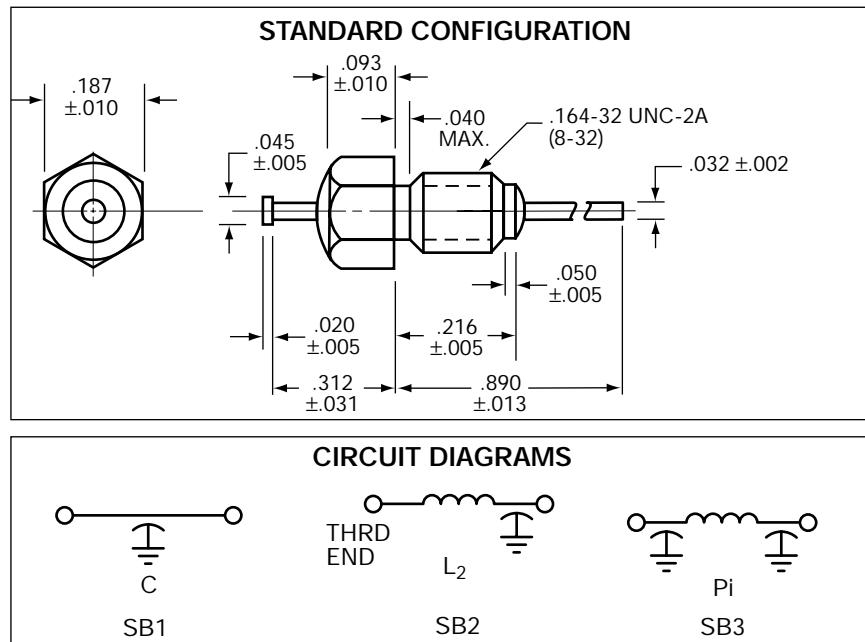
					Insertion Loss ² Per MIL-STD-220, +25°C					
AVX P/N	CKT	CAP ¹	DC Voltage	DCR	1 MHz	10 MHz	100 MHz	200 MHz	1 GHz	10 GHz
SA1C1-102	C	1000	50	.02	–	4	20	25	25	55
SA1C1-502	C	5000	50	.02	–	15	34	41	42	55
SA1C1-103	C	.01	50	.02	4	21	35	42	50	70
SA1C1-273	C	.027	50	.02	10	30	39	43	65	70
SA1C1-503	C	.05	50	.02	15	35	42	45	70	70
SA2C1-102	L2	1000	50	.02	–	4	20	27	30	60
SA2C1-502	L2	5000	50	.02	–	15	35	41	45	60
SA2C1-103	L2	.01	50	.02	4	21	35	44	50	70
SA2C1-273	L2	.027	50	.02	10	30	50	45	65	70
SA2C1-503	L2	.05	50	.02	15	37	45	45	70	70
SA1A1-102	C	1000	100	.02	–	4	20	25	25	55
SA1A1-502	C	5000	100	.02	–	15	35	41	42	55
SA1A1-103	C	.01	100	.02	4	21	35	42	50	70
SA1A1-273	C	.027	100	.02	10	30	39	43	65	70
SA1A1-453	C	.045	100	.02	14	35	42	45	70	70
SA2A1-102	L2	1000	100	.02	–	4	20	27	30	60
SA2A1-502	L2	5000	100	.02	–	15	35	41	45	60
SA2A1-103	L2	.01	100	.02	4	21	35	44	50	70
SA2A1-273	L2	.027	100	.02	10	30	50	45	70	70
SA2A1-453	L2	.045	100	.02	14	37	45	45	70	70
SA1B1-102	C	1000	200	.02	–	4	20	25	25	55
SA1B1-502	C	5000	200	.02	–	15	34	41	42	55
SA1B1-103	C	.01	200	.02	4	21	35	42	50	70
SA2B1-102	L2	1000	200	.02	–	4	20	27	30	60
SA2B1-502	L2	5000	200	.02	–	15	35	41	45	60
SA2B1-103	L2	.01	200	.02	4	21	35	44	50	70

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #146. Visit our website <http://www.avxcorp.com>

Bolt Style EMI Filters



SB Series - 8-32 Thread - Epoxy Sealed - Circuits Available - C, L, π



Specifications

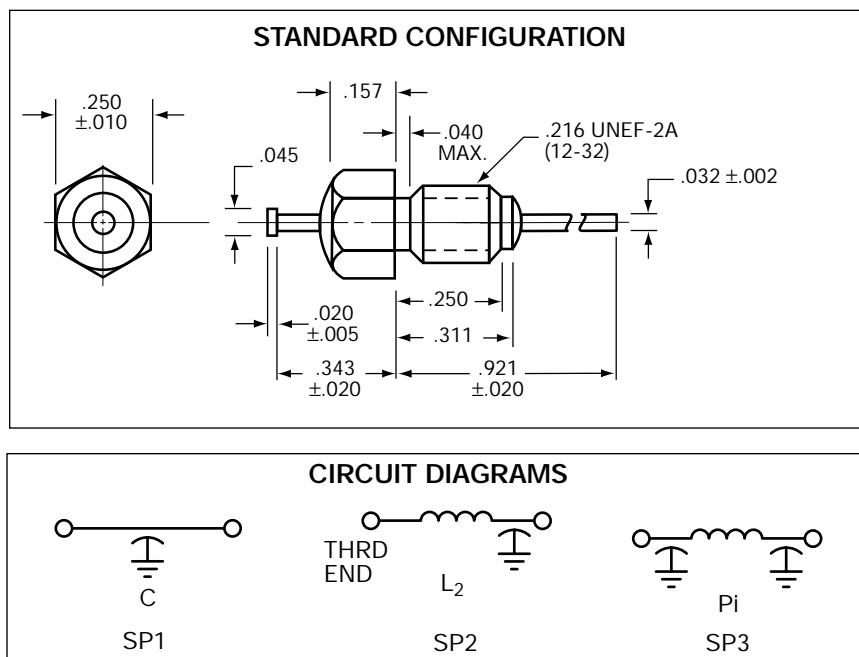
AVX P/N	CKT	CAP ¹	DC Voltage	DCR	Insertion Loss ² Per MIL-STD-220, +25°C					
					1 MHz	10 MHz	100 MHz	200 MHz	1 GHz	10 GHz
SB1C1-102	C	1000	50	.01	-	4	20	25	40	50
SB1C1-502	C	5000	50	.01	-	15	34	41	50	55
SB1C1-103	C	.01	50	.01	4	21	35	40	55	60
SB1C1-273	C	.027	50	.01	10	30	39	45	65	70
SB1C1-503	C	.05	50	.01	15	35	42	50	70	70
SB2C1-273	L2	.027	50	.01	10	30	50	54	65	70
SB2C1-503	L2	.05	50	.01	15	36	54	60	70	70
SB3C1-323	π	.032	50	.01	12	30	60	70	70	70
SB1A1-102	C	1000	100	.01	-	4	20	25	40	50
SB1A1-502	C	5000	100	.01	-	15	34	41	50	55
SB1A1-103	C	.01	100	.01	4	21	35	40	55	60
SB1A1-273	C	.027	100	.01	10	30	39	45	65	70
SB1A1-503	C	.05	100	.01	15	35	42	50	70	70
SB2A1-103	L2	.01	100	.01	4	21	35	38	65	70
SB2A1-273	L2	.027	100	.01	10	30	50	54	70	70
SB3A1-152	π	1500	100	.01	-	8	20	45	70	70
SB3A1-123	π	.012	100	.01	-	12	60	70	70	70
SB3A1-153	π	.015	100	.01	-	17	37	43	70	70
SB1B1-102	C	1000	200	.01	-	4	20	25	40	50
SB1B1-502	C	5000	200	.01	-	15	34	41	50	55
SB2B1-102	L2	1000	200	.01	-	4	20	27	45	70
SB2B1-502	L2	5000	200	.01	-	15	35	41	55	70
SB3B1-202	π	2000	200	.01	-	8	42	58	70	70

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #147. Visit our website <http://www.avxcorp.com>

Bolt Style EMI Filters



SP Series – 12-32 Thread - Epoxy Sealed – Circuits Available – C, L, π



Specifications

AVX P/N	CKT	CAP ¹	DC Voltage	DCR	Insertion Loss ² Per MIL-STD-220, +25°C					
					1 MHz	10 MHz	100 MHz	200 MHz	1 GHz	10 GHz
SP1C1-204	C	.20	50	.01	26	39	52	60	70	70
SP2C1-204	L2	.20	50	.01	26	38	65	70	70	70
SP3C1-124	π	.12	50	.01	20	38	70	70	70	70
SP1A1-503	C	.05	100	.01	15	35	38	50	70	70
SP1A1-104	C	.10	100	.01	20	38	48	53	70	70
SP2A1-503	L2	.05	100	.01	15	36	54	60	70	70
SP3A1-753	π	.075	100	.01	18	38	70	70	70	70
SP1L1-102	C	1000	200*	.01	–	4	20	25	40	50
SP1L1-502	C	5000	200*	.01	–	15	34	41	50	55
SP1L1-103	C	.01	200*	.01	4	21	35	40	55	60
SP1L1-253	C	.025	200*	.01	8	28	36	44	64	70
SP2L1-102	L2	1000	200*	.01	–	4	20	27	45	70
SP2L1-502	L2	5000	200*	.01	–	15	35	41	55	70
SP2L1-103	L2	.01	200*	.01	4	21	35	38	65	70
SP3B1-152	π	1500	200	.01	–	8	20	45	70	70
SP3B1-123	π	.012	200	.01	–	12	60	70	70	70

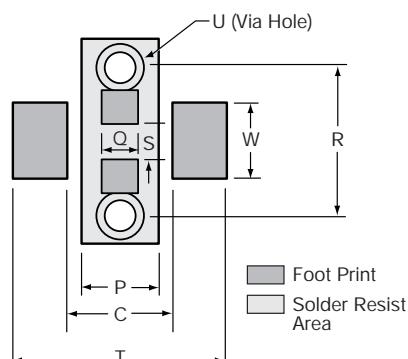
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #148. Visit our website <http://www.avxcorp.com>

Integrated Passive Components (IPC)



EMI Noise Filter - KNF

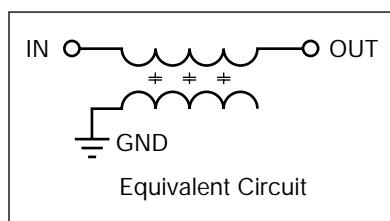
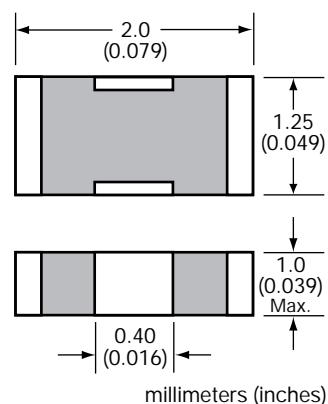
Recommended Foot Print



Dimensions: millimeters (inches)

	KNF 21	KNF 32
T	3.20 (0.126)	4.40 (0.173)
W	1.00 (0.039)	1.40 (0.055)
R	2.30 (0.091)	3.00 (0.118)
C	1.20 (0.047)	2.50 (0.098)
P	0.80 (0.031)	1.20 (0.047)
Q	0.40 (0.016)	0.60 (0.024)
S	0.60 (0.024)	0.60 (0.024)
U	0.30 (0.012) - 0.40 (0.016)	0.50 (0.020)

Dimensions



HOW TO ORDER

KNF 21 400 -W 3
 ① ② ③ ④ ⑤

① Series:

KNF

② Size:

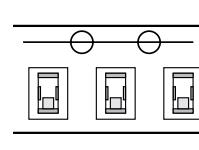
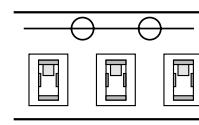
21 = 0805; 32 = 1206

③ Cut Off Frequency:
MHz

④ Taping Direction:
W (STD)

⑤ Quantity Per Reel:
2 = 2000; 3 = 3000

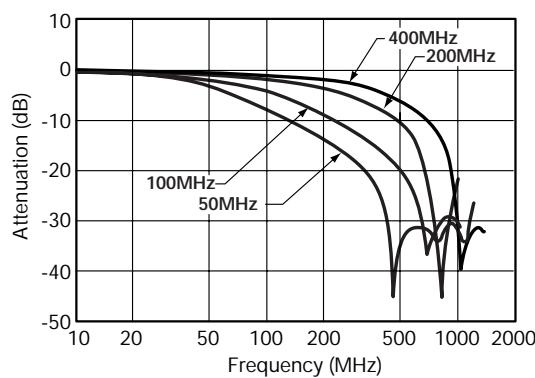
Taping Direction (W,X)



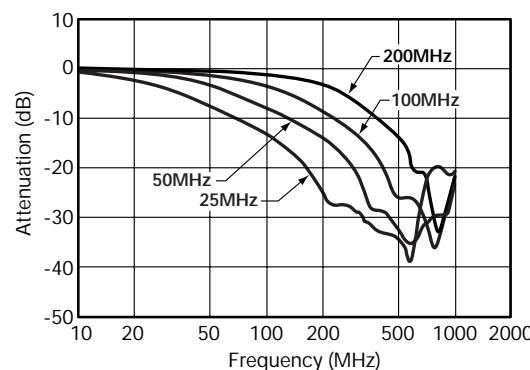
Specifications

Part Number	Cut off Frequency (MHz)	Capacitance (pF)	Attenuation (dB)	Rated Current (A)	Rated Voltage (V)
KNF21050	50	130	20 (350-850) MHz	0.15	25
KNF21100	100	65	20 (450-950) MHz	0.15	25
KNF21200	200	33	20 (700-1200) MHz	0.15	25
KNF21400	400	17	20 (900-1400) MHz	0.15	25
KNF32025	25	235	20 (200-600) MHz	0.20	25
KNF32050	50	130	20 (350-850) MHz	0.20	25
KNF32100	100	65	20 (450-950) MHz	0.20	25
KNF32200	200	33	20 (600-1100) MHz	0.20	25

KNF 21 SERIES



KNF 32 SERIES

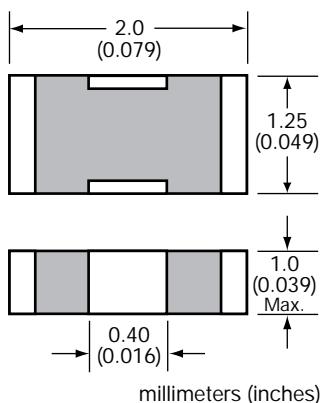


Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #149. Visit our website <http://www.avxcorp.com>



Integrated Passive Components (IPC)

High Current EMI Noise Filter - KNH



HOW TO ORDER

KNH 21 104 -3 AA

(1) (2) (3) (4) (5)

① Series:

KNH

② Size:

21 = 0805

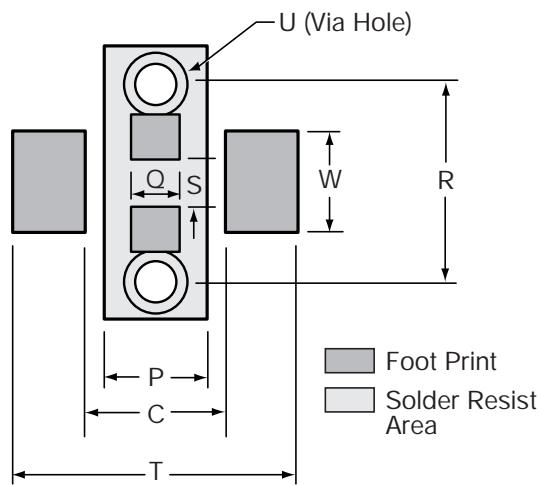
③ Capacitance Code

④ Taping Quantity:

3 = 3000

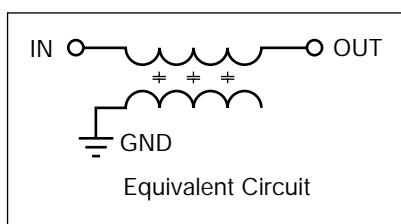
⑤ Standard

Recommended Foot Print



Dimensions: millimeters (inches)

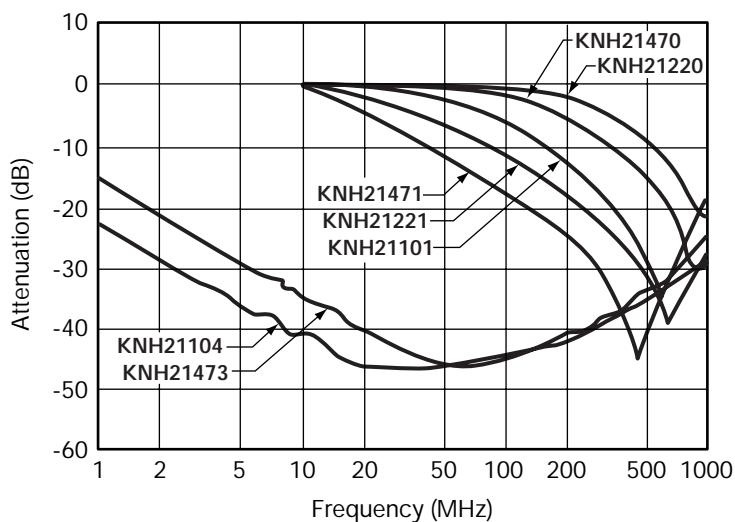
T	3.20 (0.126)
W	1.00 (0.039)
R	2.30 (0.091)
C	1.20 (0.047)
P	0.80 (0.031)
Q	0.40 (0.016)
S	0.60 (0.024)
U	0.30 (0.012) - 0.40 (0.016)



Specifications

Part Number	Capacitance Value	Rated Current (A)	Rated Voltage (VDC)
KNH21104	100nF	2.0	25
KNH21473	47nF	2.0	50
KNH21471	470pF	1.0	50
KNH21221	220pF	1.0	50
KNH21101	100pF	1.0	50
KNH21470	47pF	1.0	50
KNH21220	22pF	1.0	50

Electric Characteristics (50Ω System)



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #150. Visit our website <http://www.avxcorp.com>

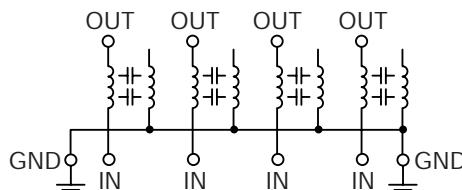


Integrated Passive Components (IPC)

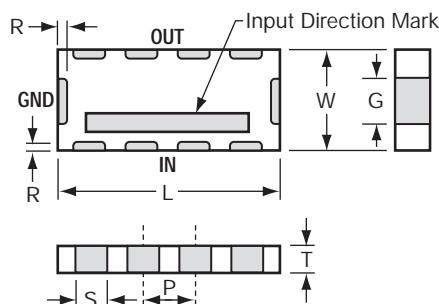
EMI Noise Filter Array - KNA



Equivalent Circuit

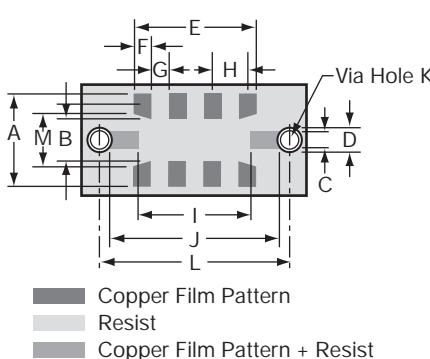


Dimensions



Dimensions: mm (inches)	
L	3.20 ± 0.20 (0.126 ± 0.008)
W	1.60 ± 0.20 (0.063 ± 0.008)
T	0.90 max. (0.035 max.)
P	0.80 (0.031)
S	0.35 ± 0.15 (0.014 ± 0.006)
G	0.60 (0.024)
R	0.01 ≤ (.0004)
P	0.80 (0.031)

Recommended Land Pattern



Dimensions: mm (inches)	
A	2.20 (0.087)
B	1.00 (0.039)
C	0.40 (0.016)
D	0.60 (0.024)
E	2.80 (0.110)
F	0.40 (0.016)
G	0.40 (0.016)
H	0.80 (0.031)
I	2.60 (0.102)
J	3.80 (0.150)
K	0.30 ~ 0.40 (0.012 ~ 0.016)
L	5.00 (0.197)
M	1.30 (0.051)

HOW TO ORDER

KNA 32 050 -W 3
 ① ② ③ ④ ⑤

① Series: KNA (Array Signal Line Type)

② Size: 32 = 1206

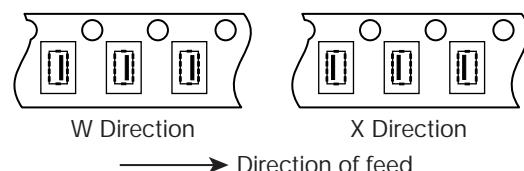
③ Cut Off Frequency:
MHz

④ Taping Direction:
(W = IN Left/X = IN Right) STD = W

⑤ Quantity (Per Reel = Kpcs):
STD = 3Kpcs

Taping Direction

W direction is standard specification. However, X direction is possible, if specified.



Performance/Requirement

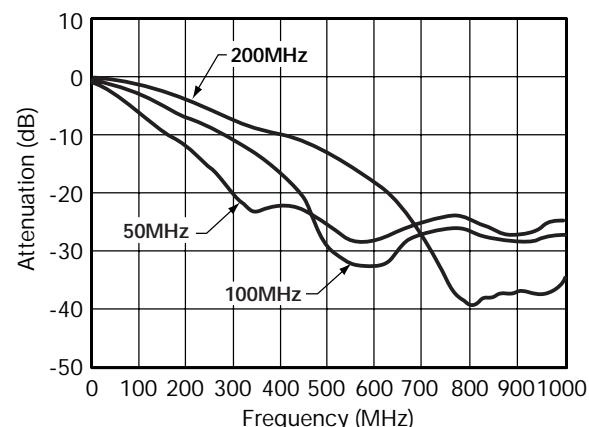
A = Insulation Resistance ----- 1000MΩ min.
B = Operating Temperature ----- -25 ~ 85°C

Electrical Characteristics

Part Number	Cut off ¹ Frequency (MHz)	Capaci- tance +25/-20% (pF)	ATT Characteristics ² (Typical 20dB) ATT Range = MHz	Rated Current (mA = DC)	Rated Voltage (V = DC)
KNA32050	50	115	350 ~ 850	100	25
KNA32100	100	65	450 ~ 950	100	25
KNA32200	200	33	700 ~ 1200	100	25

¹ Attenuation of Cut off Frequency 6dB max.

² Attenuation Characteristics should be standard characteristics of 50Ω.



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #151. Visit our website <http://www.avxcorp.com>

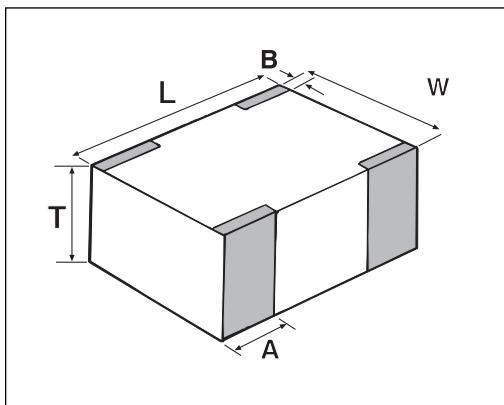


Thin-Film Low Pass Filter

LP0805 Type



Dimensions: millimeters (inches)



L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	1.02±0.1 (0.040±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

HOW TO ORDER

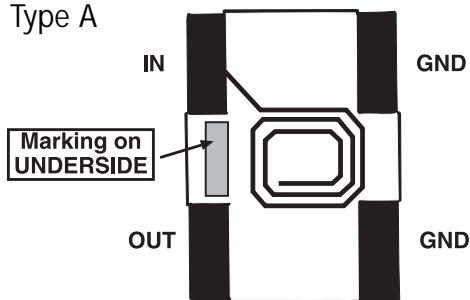
LP - 0805 A 0902 - AW

① ② ③ ④ ⑤

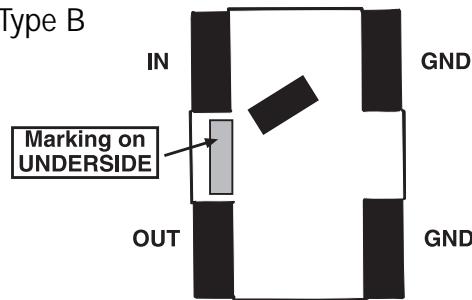
- ① Style: Low Pass
- ② Size: 0805
- ③ Layout Type: (see below)
- ④ Frequency: MHz
- ⑤ Termination: Nickel/Solder (Sn/Pb)

Terminals and Layout (top view)

Type A



Type B



Electrical Characteristics

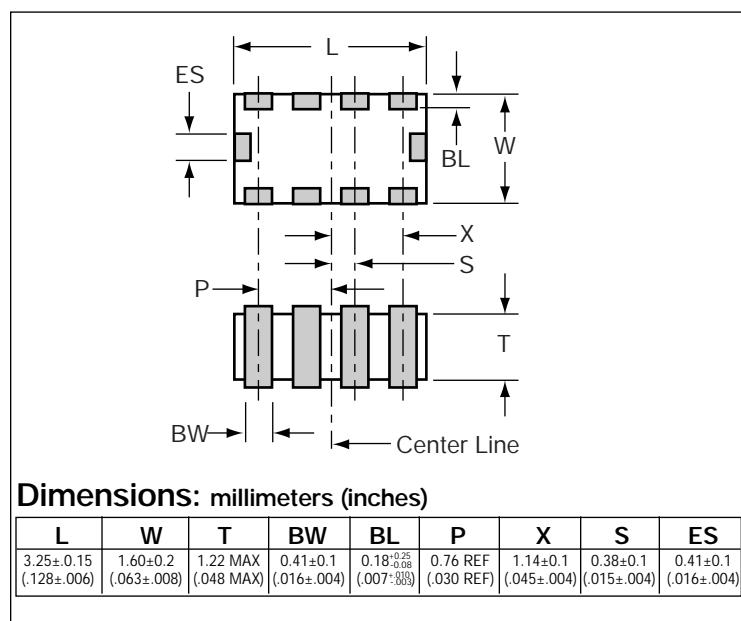
Application	Part Number	Frequency Band (MHz)	L Loss max	VSWR max	Attenuation (dB) Typical	Layout Type
E-GSM	LP0805A0897AW	880 ~ 915	0.4dB (0.3dB typ)	1.7	30@2xFo 20@3xFo	A
	LP0805A0942AW	925 ~ 960				A
GSM	LP0805A0902AW	890 ~ 915	0.4dB (0.3dB typ)	1.7	30@2xFo 20@3xFo	A
	LP0805A0947AW	935 ~ 960				A
AMPS	LP0805A0836AW	824 ~ 849	0.4dB (0.3dB typ)	1.7	30@2xFo 20@3xFo	A
	LP0805A0881AW	869 ~ 894				A
PCN	LP0805A1747AW	1710 ~ 1785	0.4dB (0.3dB typ)	1.7	30@2xFo 20@3xFo	B
	LP0805A1842AW	1805 ~ 1880				B
PCS	LP0805A1880AW	1850 ~ 1910	0.4dB (0.3dB typ)	1.7	30@2xFo 20@3xFo	B
	LP0805A1960AW	1930 ~ 1990				B
PHP	LP0805A1907AW	1895 ~ 1920	0.4dB (0.3dB typ)	1.7	30@2xFo 20@3xFo	B
DECT	LP0805A1890AW	1880 ~ 1900				B
Wireless LAN	LP0805A2442AW	2400 ~ 2484	0.4dB (0.3dB typ)	1.7	30@2xFo 20@3xFo	B

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #152. Visit our website <http://www.avxcorp.com>



Low Pass Filter Array

1206 Four Element Integrated Passive Component



HOW TO ORDER

Z 3 F 4 3 Y 330 M 301 K A T 2 A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

① Style

② Size: 3 = 1206

③ Filter Array

④ Number of Caps

⑤ Voltage: 3 = 25V

⑥ Dielectric: Y = ±500PPM

⑦ Capacitance Code)

⑧ Capacitance Tolerance: M = ±20%

⑨ Resistance Code

⑩ Resist Tolerance: M = ±10%

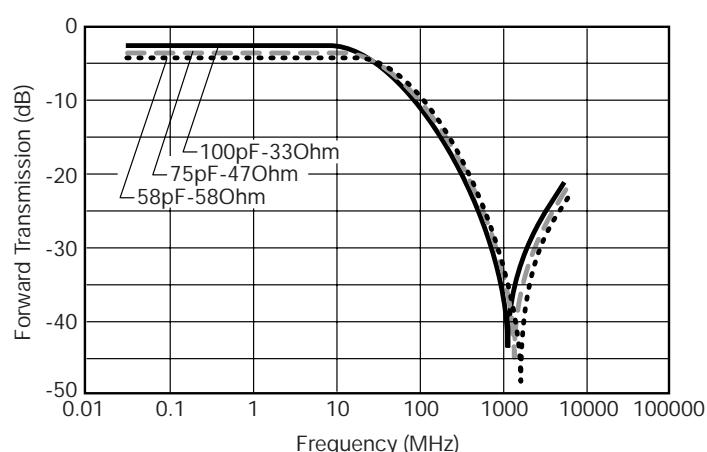
⑪ Failure Rate: A = Not Applicable

⑫ Terminations: T = Plated Ni and Solder

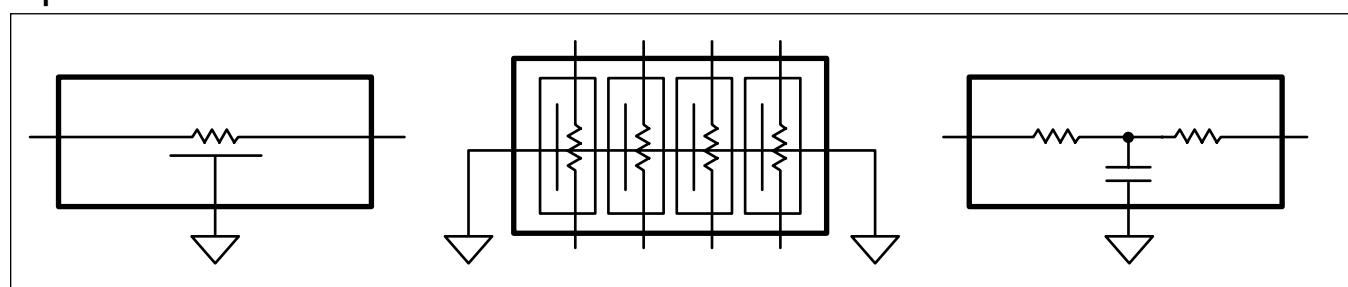
⑬ Packaging Code (Reel Size):

2 = 7" Reel Paper Tape

⑭



Equivalent Circuits



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #153. Visit our website <http://www.avxcorp.com>

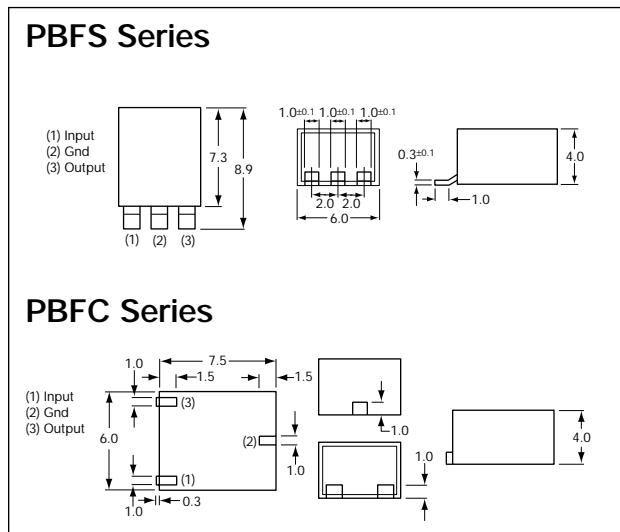


Ceramic Filters



PBFS and PBFC Series - Surface Mount

Dimensions:



Specification (PBF_455 Series)

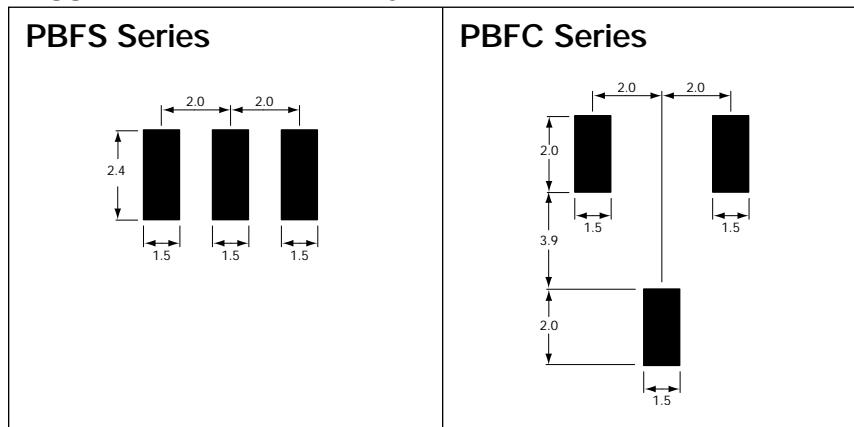
P (4-element) type - Standard Group Delay

Part No.	Center Frequency (f_0)	Ripple	Bandwidth		Stop Band Attenuation	Insertion Loss	Input/Output Impedance	Operating Temp. Range			
			6dB	40dB							
PBF_455P20D	455kHz±1.5kHz	2.0dB max.	±10kHz min.	±20kHz max.	25dB min.	6dB max.	1.5kΩ	-20°C to +80°C			
PBF_455P15D			±7.5kHz min.	±15kHz max.							
PBF_455P12D			±6.0kHz min.	±12.5kHz max.							
PBF_455P9D			±4.5kHz min.	±11.0kHz max.	35dB min.						
PBF_455P6D			±3.0kHz min.	±9.0kHz max.							
PBF_455P4D			±2.0kHz min.	±7.5kHz max.							

P (4-element) type - Controlled Group Delay

Part No.	Center Frequency (f_0)	Ripple	Bandwidth		Stop Band Attenuation	Insertion Loss	Group Delay Time	Input/Output Impedance	Operating Temp. Range
			6dB	40dB					
PBF_455P30K	455kHz	1.0dB max.	±15kHz min.	±35kHz max.	25dB min.	7dB max.	15.0μS max (±10.0kHz)	1.0kΩ±10%	-20°C to +80°C
PBF_455P25K			±12.5kHz min.	±30kHz max.		6dB max.	15.0μS max (±8.0kHz)		
PBF_455P20K			±10kHz min.	±25kHz max.		5dB max.	30.0μS max (±10.0kHz)		

Suggested Solder Pad Layout



HOW TO ORDER

PBF S 455 P 15 D R
 ① ② ③ ④ ⑤ ⑥ ⑦

① Model: PBFS or PBFC

② Type: S = Inline leads
C = Leadless

③ Center Frequency:

450 = 450 kHz

455 = 455 kHz

④ Number of Ceramic Elements:
P = 4-element

⑤ Passband Width (at 6dB):
4-element (30, 25, 20, 15, 12, 9, 6, 4)

⑥ Group Delay Time:
D = Standard Group Delay
K = Controlled Group Delay

⑦ Packaging:

R = tape and reel
(13" = 1000 pcs. per reel)

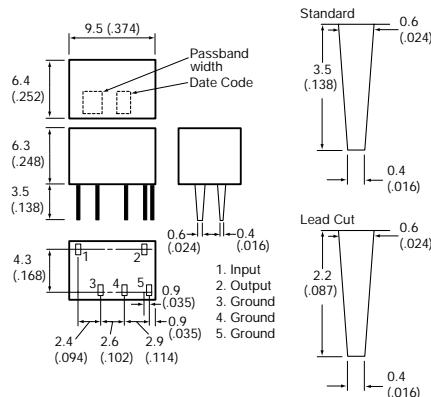
Ceramic Filter



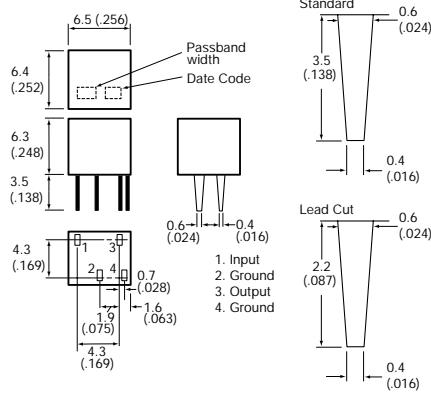
KBF-R/P, RS/PS Series - Leaded

Dimensions: millimeters (inches)

KBF-RS Series (6-Element)



KBF-PS Series (4-Element)



HOW TO ORDER

KBF - 455 R S - 20 A

① ② ③ ④ ⑤ ⑥

① Model:

② Center Frequency:

450	450KHz
455	455KHz

③ Number of Ceramic Elements:

R	6-elements
P	4-elements

④ Blank: Standard, S: Low profile

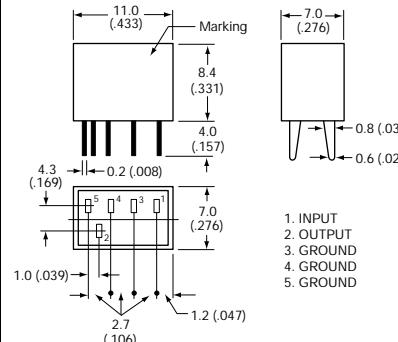
⑤ Passband Width (at 6dB)

# Elements	Total Band Width, kHz
6-Elements	25,20,15,12,10,9,7,6,4
4-Elements	25,20,15,12,10,9,7,6,4

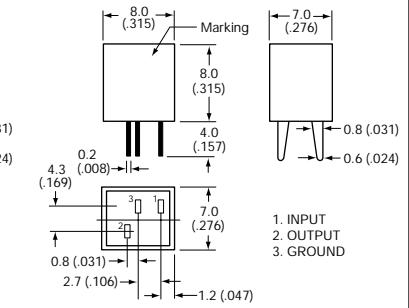
⑥ A High selectivity type

AS Ultra high selectivity type

KBF-R Series (6-Element type)



KBF-P Series (4-Element type)



Standard Packaging: Bulk=200 pcs

Electrical Characteristics

R/RS (6-Element type)

Model No.	Center Frequency (f_0)	Ripple	Bandwidth		Stop Band Attenuation	Insertion Loss	Input/Output Impedance	Operating Temp. Range
			6dB	50dB				
KBF-455RS-20A	455kHz±1.5kHz	2.0dB max.	±10.0kHz min.	±20.0kHz max.	37dB min.	4dB max.	1.5kΩ	-20°C to +80°C
KBF-455RS-15A			±7.5kHz min.	±15.0kHz max.		6dB max.		
KBF-455RS-10A			±5.0kHz min.	±12.0kHz max.		35dB min.		
KBF-455RS-9A			±4.5kHz min.	±10.0kHz max.				
KBF-455RS-7A			±3.5kHz min.	±9.0kHz max.				
KBF-455RS-6AS			±3.0kHz min.	±9.0kHz max.				
KBF-455RS-4AS			±2.0kHz min.	±7.5kHz max.				

P/PS (4-Element type)

Model No.	Center Frequency (f_0)	Ripple	Bandwidth		Stop Band Attenuation	Insertion Loss	Input/Output Impedance	Operating Temp. Range
			6dB	40dB				
KBF-455PS-25A	455kHz±2.0kHz	2.0dB max.	±12.5kHz min.	±24.0kHz max.	27dB min.	4dB max.	1.5kΩ	-20°C to +80°C
KBF-455PS-20A			±10.0kHz min.	±20.0kHz max.		6dB max.		
KBF-455PS-15A			±7.5kHz min.	±15.0kHz max.		35dB min.		
KBF-455PS-10A			±5.0kHz min.	±11.0kHz max.				
KBF-455PS-7A			±3.5kHz min.	±9.0kHz max.				
KBF-455PS-6AS			±3.0kHz min.	±9.0kHz max.				
KBF-455PS-4AS			±2.0kHz min.	±7.5kHz max.				

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #155. Visit our website <http://www.avxcorp.com>



KAF - Cordless Phones Series SAW Filters

46 and 49 MHz - Low Insertion Loss SAW Filters



HOW TO ORDER

KAF - 46 NR - ME

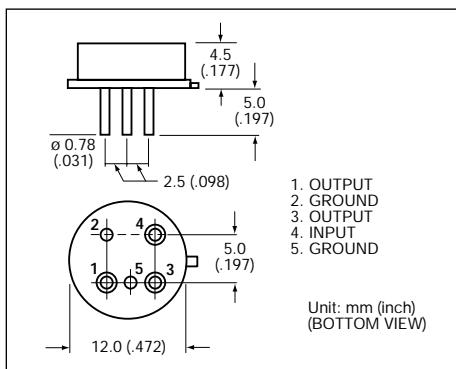
(1) (2) (3)

(1) Model (Kyocera Acoustic Filter)

(2) Frequency

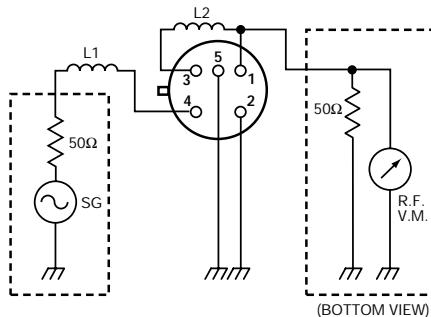
(3) Type Number

Dimensions:



Test Circuit KAF-46NR-ME/KAF-49NR-MA

	46	49
L1 (μ H)	0.47	0.39
L2 (μ H)	0	0.33

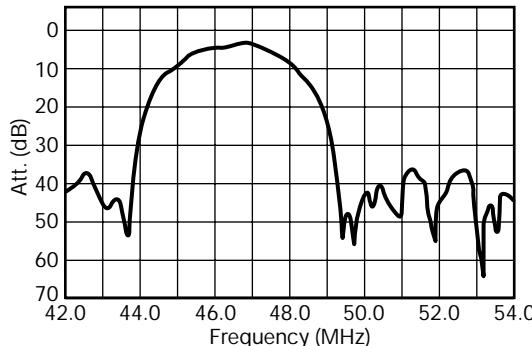
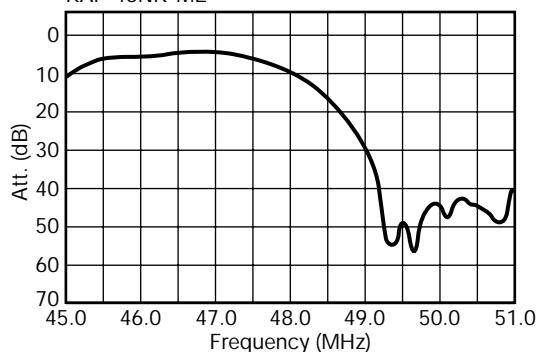


Specifications

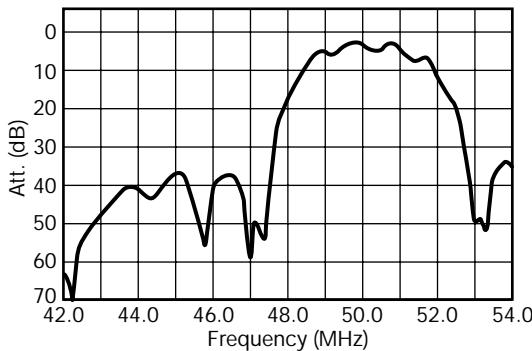
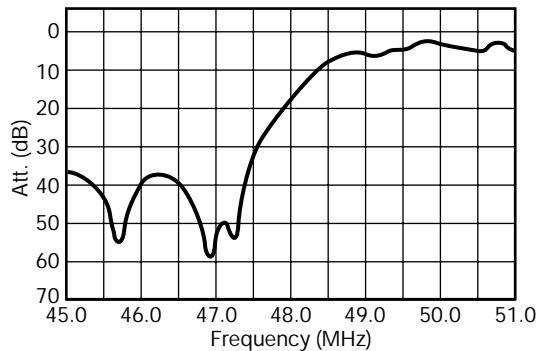
Part No.	Attenuation (46.61 ~ 46.97MHz)	Attenuation (49.67 ~ 49.99MHz)
KAF-46NR-ME	6.0 dB max.	30 dB min.
KAF-49NR-MA	30 dB min.	6.0 dB max.

Characteristics

KAF-46NR-ME



KAF-49NR-MA

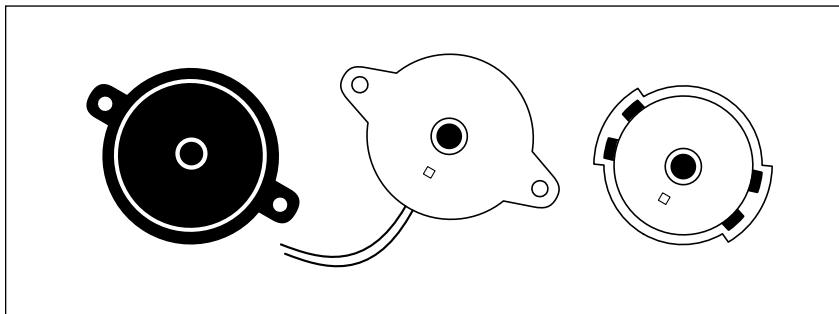


Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #156. Visit our website <http://www.avxcorp.com>

Piezoelectric Acoustic Generators



Telephone Ringers



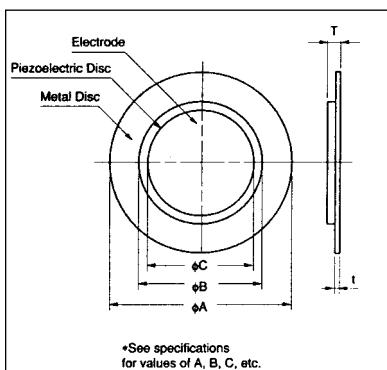
Specifications

Model Number	Sound Pressure Level	Static Capacitance
KBS-30DB-1A-20	70dB Min. 1.0~1.5KHz 20Vp-p SQ 30cm	★ 48nF ± 30%
KBT-33SB-2T-2	70dB Min. 1.0~1.5KHz 20Vp-p SQ 30cm	★ 48nF ± 30%
KBT-34SB-1T/1A-0	75dB Min. 1.0~1.5KHz 20Vp-p SQ 30cm	★ 68nF ± 30%
KBT-44SB-1A	75dB Min. 1.0KHz 10Vp-p SQ 30cm	★ 68nF ± 30%
KBS-50DL-05C	—————	★ 120nF Min.

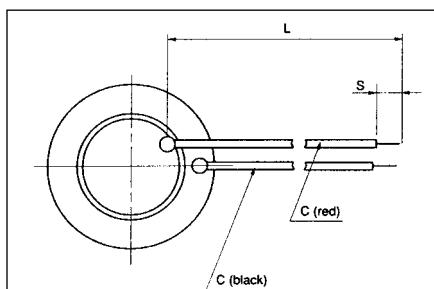
★ Measured at 120Hz

External Drive Type - KBS-XXDA

Dimensions



Standard Leads



W = Thickness	AWG-32 UL-1571
L = Length (mm)	50±5, 75±5, 100±10
S = Strip (mm)	3±1
C = Color	red, black

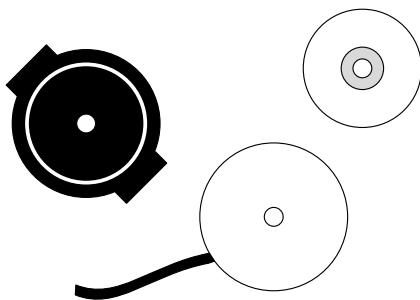
Part Number	Resonant Frequency (kHz)	Resonant Impedance (Ω)	Static Capacitance (pF)	Dimensions (mm)					Metal Disc Material
				Metal Disc (φA)	Ceramic Disc (φB)	Electrode (φC)	Total Thickness (T)	Metal Disc Thickness (t)	
KBS-13DA-12A	12.0±1.2	700	5,000±30%	13.4±0.1	10.0±0.3	(9.0)	0.36±0.1	0.15±0.03	Brass
KBS-15DA-9A-2	10.5±3.0	600	8,000±30%	15.0±0.1	12.0±0.3	(11.0)	0.42±0.1	0.20±0.03	Brass
KBS-20DA-7A	6.6±1.0	300	10,000±30%	20.0±0.1	14.2±0.3	(13.0)	0.45±0.1	0.20±0.03	Brass
KBS-23DA-4A	4.0±1.0	600	12,000±30%	22.8±0.1	15.0±0.3	(14.0)	0.41±0.1	0.15±0.03	Brass
KBS-27DA-5A	4.6±0.5	200	20,000±30%	27.0±0.1	20.2±0.3	(19.0)	0.53±0.1	0.25±0.03	Brass
KBS-30DA-1A	1.4±0.5	500	*48,000±30%	30.0±0.1	20.2±0.3	(19.0)	0.23±0.1	0.10±0.03	Brass
KBS-35DA-3A	2.9±0.5	200	30,000±30%	35.0±0.1	25.0±0.3	(23.5)	0.53±0.1	0.25±0.03	Brass

*Measured at 120Hz, all others at 1kHz

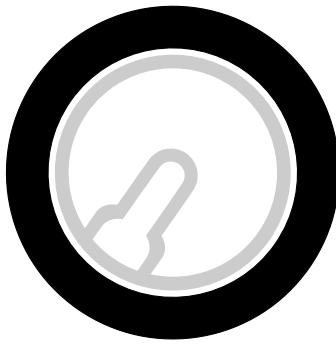
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #157. Visit our website <http://www.avxcorp.com>



External Drive -Housing Type - KBS-XXDB



Self-Oscillating Type -KBS-XXDA-XG/FC/GC



HOW TO ORDER

KBS - 27 DB - 4 Y □
 ① ② ③ ④ ⑤ ⑥

- ① Model
- ② Diameter: (mm) eg. 27
- ③ Buzzer With Case
- ④ Resonant Frequency: eg. 3kHz

⑤ Case Type:

A	Lead Type
P	Round Terminal Type

⑥ Disc Material

Blank	Brass
-------	-------

HOW TO ORDER

KBS - 35 DA - 3 G □ - 3
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Model
- ② Diameter: (mm) eg. 35
- ③ Element Shape: (Disc-Shaped Piezoelectric Buzzer)
- ④ Resonant Frequency: eg. 3kHz

⑤ 3-Terminal Electrode Type

FC	F-Shaped Pattern
G	G-Shaped Pattern
GC	G-Shaped Pattern With Lead

⑥ Metal Disc Material

S	Stainless Steel
Blank	Brass

- ⑦ Classification for elements of the same shape (in case of partial modification of standard specifications only)

Soft Ferrites

Materials



Power Applications

Symbols	Units	Test conditions	B1	B2	B3	B5	B7	F1	F2	*F4
			PW1a / PW1b	PW3b	PW1b	Standard PW2a / PW2b	IEC 1332 PW2b	PW3b	PW4b	PW5b
μ_i		25°C	2500 ± 25%	1900 ± 25%	1900 ± 25%	1800 ± 25%	2000 ± 25%	2300 ± 25%	1900 ± 25%	1100 ± 25%
B at H (nominal values)	mT	400 25°C	450	460	470	470	470	450	420	390
		A/m 100°C	340	360	380	380	380	340	320	310
		1600 25°C	480	490	500	500	500	480	450	420
		A/m 100°C	370	380	400	400	400	370	350	330
H_c	A/m	25°C	12	16	16	16	16	15	15	
		100°C	10	10	10	10	10	10	10	
T_c	°C		> 200	> 250	> 250	> 250	> 250	> 230	> 200	> 200
P_L typ	mW/cm³	16 kHz - 100°C 200 mT	< 100		< 80					
		25 kHz - 100°C 200 mT	< 180		< 150					
		32 kHz - 100°C 200 mT	< 250		< 200	< 140	< 120			
		60 kHz - 100°C 200 mT		< 340		< 350	< 330	< 280		
		100 kHz - 100°C 100 mT		< 150						
		100 kHz - 100°C 200 mT				< 700	< 680	< 580		
		300 kHz - 100°C 50 mT		< 120					< 100	
		500 kHz - 100°C 50 mT							< 230	< 180
		1 MHz - 100°C 50 mT								< 600
		1.5 MHz - 100°C 50 mT								< 1200
ρ	$\Omega \times m$		1	6	6	6	6	6	6	6
Density	g/cm³		4.8	4.8	4.8	4.8	4.8	4.8	4.6	4.6

Values measured on \emptyset 35 X \emptyset 12x18 reference toroid.

*Values measured on \emptyset 27.1 X \emptyset 13.8x11 reference toroid.

Filtering Applications

Symbols	Units	Test conditions	A2	A3	A4	A5	A6	A8	A9
			CL11	CL10	CL9	Class CL9	CL9	CL8	CL
μ_i		25°C	10000 ± 30%	7500 ± 25%	6000 ± 25%	5000 ± 25%	4000 ± 25%	3500 ± 25 %	2500 ± 25%
\hat{B} at \hat{H} (Typical values)	mT	25°C	330	330	350	350	410	480	480
		100°C	200	200	250	250	310	370	370
	A/m		800	800	800	800	800	1600	1600
H_c	A/m	25°C	6.2	6.2	6.4	6.4	12	12	12
		100°C	3.1	3.1	4.8	4.8	8	10	10
T_c	°C		> 120	> 120	> 140	> 140	> 160	> 200	> 200
f_c	MHz	25°C	0.3	0.3	0.3	0.5	0.6	1	1.5
$\text{tg}\delta / \mu$	x10 ⁻⁶	25°C	< 7	< 7	< 9	< 6	< 9		< 8
at f	kHz		10	10	10	10	10		100
ρ	$\Omega \times m$		0.3	0.3	0.5	0.5	0.5	2	1
Density	g/cm³		4.9	4.9	4.8	4.8	4.7	4.8	4.8

Values measured on \emptyset 21 X \emptyset 14x10 reference toroid.

*Specifications mentioned in this publication are subject to change without notice.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
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Soft Ferrites

Filtering Application



Fig. A

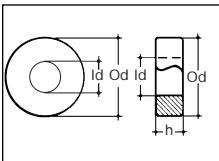


Fig. B

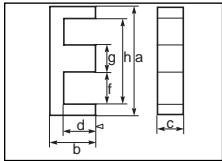


Fig. C

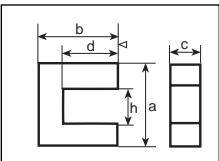


Fig. D

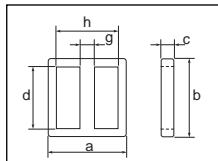
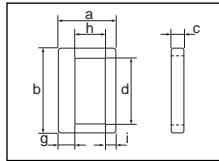


Fig. E



Toroids

See Fig.	P/N	Od mm	Id mm	h mm	Materials (A_L nH $\pm 25\%$)								
					A2* non-coated	A3		A4		A6		A9	
					non-coated	non-coated	coated	non-coated	coated	non-coated	coated	non-coated	coated
A	T-0400A	4 ± 0.15	2.4 ± 0.15	1.6 ± 0.15	1600	1200		960	840	640	570	400	360
A	T-0630A	6.3 ± 0.20	3.8 ± 0.15	2.5 ± 0.15	2500	1900		1500	1300	1000	880	560	520
A	T-1000A	10 ± 0.30	6 ± 0.20	4 ± 0.15	4000	3000	2650	2400	2100	1600	1400	900	840
A	T-1400A	14 ± 0.40	9 ± 0.40	5 ± 0.30		3300	2900	2400	2100	1770	1500	1250	1100
A	T-1600A	16 ± 0.50	9.6 ± 0.30	6.3 ± 0.20		4800	4200	3800	3300	2500	2200	1600	1400
A	T-2000B	20 ± 0.50	10 ± 0.35	7 ± 0.40		7300	6400	5400	5000	3900	3400	2450	2100
A	T-2500A	25 ± 0.75	15 ± 0.45	10 ± 0.35		7650	6750	6000	5200	4000	3500	2500	2200
A	T-2800A	27.6 ± 0.85	17.6 ± 0.55	19 ± 0.70				10500	8700	6800	6200	4300	3600
A	T-3150A	31.5 ± 0.95	19 ± 0.60	12.5 ± 0.45				7550	6600	5000	4400	3200	2650
A	T-3600A	36 ± 1.10	23 ± 0.70	15 ± 0.55				7700	7200	5350	4700	3350	2950
A	T-4000A	40 ± 1.20	24 ± 0.70	16 ± 0.50				9600	8400	6300	5500	4000	3850
A	T-5000A	50 ± 1.50	15 ± 0.45	10 ± 0.35				14500	12500	9650	8500	6000	5300
A	T-6300A	63 ± 2.00	38 ± 1.20	25 ± 0.80				12500	13500	10000	8800	6300	5600

US Size Toroids

See Fig.	P/N	Od mm (in)	Id mm (in)	h mm (in)	Materials (A_L nH $\pm 25\%$)								
					A2* non-coated	A3		A4		A5		A6	
					non-coated	non-coated	coated	non-coated	coated	non-coated	coated	non-coated	coated
A	T-0480A	4.84 ± 0.20 (.191 ± .008)	2.28 ± 0.10 (.09 ± .004)	1.28 ± 0.10 (.050 ± .004)	1900			1150	1000	950	850	760	680
A	T-0950A	9.52 ± 0.25 (.375 ± .010)	4.75 ± 0.13 (.19 ± .005)	3.17 ± 0.25 (.125 ± .010)	4400			2650	2300	2100	1800	1750	1550
A	T-1270A	12.7 ± 0.40 (.500 ± .016)	7.14 ± 0.25 (.28 ± .010)	4.7 ± 0.20 (.185 ± .008)	5400	4050	3550	3100	2800	2700	2400	2150	1900
A	T-1270B	12.7 ± 0.40 (.500 ± .016)	7.14 ± 0.25 (.28 ± .010)	6.35 ± 0.25 (.250 ± .010)	7300	5500	4800	4400	3850	3650	3200	2900	2600
A	T-1270C	12.7 ± 0.40 (.500 ± .016)	7.92 ± 0.25 (.31 ± .010)	6.35 ± 0.25 (.250 ± .010)	6000	3500	3950	3500	3100	3000	2650	2400	2100
A	T-2210A	22.1 ± 0.65 (.870 ± .026)	13.72 ± 0.40 (.54 ± .016)	12.7 ± 0.45 (.500 ± .018)		9100	8000	7200	6400	6050	5300	4800	4200
A	T-2210B	22.1 ± 0.65 (.870 ± .026)	13.72 ± 0.40 (.54 ± .016)	6.35 ± 0.20 (.250 ± .008)		4600	4050	3650	3100	3050	2700	2450	2150
A	T-2540A	25.4 ± 0.75 (1 ± .030)	15.50 ± 0.45 (.61 ± .018)	7.93 ± 0.30 (.312 ± .012)				4700	4100	3900	3450	3100	2750
A	T-3800A	38.1 ± 0.76 (1.5 ± .030)	19.05 ± 0.38 (.75 ± .015)	12.7 ± 0.25 (.500 ± .010)				10500	9300	8750	7700	7050	6200

* : A_L nH = $\pm 30\%$. All mechanical dimensions are given for non-coated toroids.

Coating : → Polyamide or epoxy

Thickness : < 0.4 mm (to be added on mechanical dimensions)

→ Breakdown voltage > 2000 V_{DC}

E and U Cores

See Fig.	P/N	a mm	b mm	c mm	d mm	f mm	g mm	h mm	Materials (A_L nH $\pm 25\%$)		
									A4	A6	A8
B	E-1605A	16 ± 0.50	7.15 ± 0.20	4.9 ± 0.20	5.1 ± 0.20	3.8 min	4 ± 0.15	12 ± 0.25	2560	2400	1400
B	E-1905A	19.15 ± 0.75	7.9 ± 0.25	4.8 ± 0.20	5.6 ± 0.15	4.82 min	4.65 ± 0.15	14.75 ± 0.30	2600	2100	1300
B	E-2006A	20 ± 0.40	9.95 ± 0.15	5.7 ± 0.20	7.15 ± 0.15	4.1 min	5.75 ± 0.15	14.4 ± 0.30	3000	2500	2000
B	E-2506A	25.3 ± 0.50	9.5 ± 0.25	6.35 ± 0.25	6.35 ± 0.25	6.1 min	6.32 ± 0.13	19.02 ± 0.38	4000	3500	2500
B	E-2506C	25.4 ± 0.50	16 ± 0.25	6.35 ± 0.25	12.8 ± 0.25	6.07 min	6.35 ± 0.15	19.04 ± 0.40	2750	2150	1750
B	E-3007B	30.1 ± 0.70	15 ± 0.20	7.05 ± 0.25	10 ± 0.30	6.15 min	6.95 ± 0.25	19.9 ± 0.40	4660	3800	3200
B	E-3509A	34.9 ± 0.70	14.4 ± 0.25	9.15 ± 0.25	9.9 ± 0.25	8 min	9.2 ± 0.25	26 ± 0.50	5300	4700	4000
C	U-1105A	10.5 ± 0.40	7.8 ± 0.20	5 ± 0.15	5.25 ± 0.25			5 min	1600	1300	1100
C	U-1204A	12 ± 0.55	9.2 ± 0.30	3.95 ± 0.15	5.05 ± 0.15			3.45 min	1850	1600	1250
C	U-1506A	15.2 ± 0.70	11.2 ± 0.50	6.45 ± 0.25	6.05 ± 0.35			5.2 ± 0.30	3000	2400	2150
C	U-1606A	15.7 ± 0.50	9.9 ± 0.20	6 ± 0.20	6.2 ± 0.25			6.5 min	2400	2000	1700
C	U-1706B	17 ± 0.70	16.6 ± 0.20	5.95 ± 0.20	12.2 ± 0.40			7 min	1920	1600	1300
C	U-2007A	21 ± 0.60	15.3 ± 0.50	7.5 ± 0.30	8.25 ± 0.25			6.3 ± 0.30	4220	3100	2800

ST and SQ Cores

See Fig.	P/N	a mm	b mm	c mm	d mm	g mm	h mm	i mm	(A _L nH $\pm 25\%$)	
									A3	A4
D	ST2805A	28.45 ± 0.55	28.45 ± 0.55	5 ± 0.30	22.65 ± 0.45	5 ± 0.20	22.65 ± 0.45		3600	2900
E	SQ2005A	14.10 ± 0.25	20.60 ± 0.30	4.6 ± 0.20	16 ± 0.30	4.20 ± 0.20	7.50 ± 0.15	2.40 ± 0.20	2200	1750

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
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Soft Ferrites

Power Applications

UPS / High Power



Fig. 1

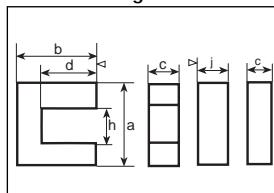


Fig. 2

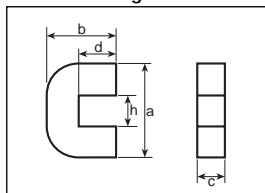


Fig. 3

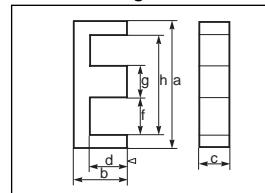
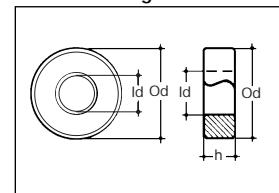


Fig. 4



U and I Cores

See Fig.	P/N	a mm	b mm	c mm	d mm	h mm	j mm	Materials (A_L nH \pm 25%)	
								B1	B2
1	U-9316A	93 \pm 1.80	76 \pm 0.50	16 \pm 0.50	48 \pm 0.90	34.6 min.		3200	2900
	IU9316A	93 \pm 1.80		16 \pm 0.50			27.5 \pm 0.50		
1	U-9320A	93 \pm 1.80	76 \pm 0.50	20 \pm 0.50	48 \pm 0.90	34.6 min.		4000	3600
	IU9320A	93 \pm 1.80		20 \pm 0.50			27.5 \pm 0.50		
1	U-9330A	93 \pm 1.80	76 \pm 0.50	30 \pm 0.60	48 \pm 0.90	34.6 min.		6000	5450
	IU9330A	93 \pm 1.80		30 \pm 0.60			27.5 \pm 0.60		
1	U--102A	101.6 \pm 2.00	57.1 \pm 0.40	25.4 \pm 0.80	31.7 \pm 0.75	50.8 \pm 3.60		5200	4700
	IU--102A	101.6 \pm 2.00		25.4 \pm 0.80			25.3 \pm 0.50		
1	U--126A	126 \pm 4.00	91 \pm 1.00	20 \pm 0.60	63 \pm 2.00	70 \pm 2.00		3000	2700
	IU--126A	126 \pm 4.00		20 \pm 0.60			28 \pm 1.00		
2	U--141A	141 \pm 5.00	78.5 \pm 1.00	15 \pm 1.00	33.5 \pm 1.00	50 min.		4500	
	U--141B	141 \pm 5.00	78.5 \pm 1.00	30 \pm 1.00	33.5 \pm 1.00	51 min.			9000

E Cores

See Fig.	P/N	a mm	b mm	c mm	d mm	f mm	g mm	h mm	Materials (A_L nH \pm 25%)	
									B1	B2
3	E-5521A	55.15 \pm 1.05	27.5 \pm 0.30	20.7 \pm 0.30	18.8 \pm 0.30	10.15 min.	16.95 \pm 0.25	38.1 \pm 0.60	7200	5400
3	E-5525A	55.15 \pm 1.05	27.5 \pm 0.30	24.7 \pm 0.30	18.8 \pm 0.30	10.15 min.	16.95 \pm 0.25	38.1 \pm 0.60	8600	6880
3	E-6527A	65.15 \pm 1.35	32.5 \pm 0.30	27.1 \pm 0.30	22.6 \pm 0.40	12.1 min.	19.65 \pm 0.35	44.95 \pm 0.75	10000	7700
3	E-7032A	70.5 \pm 1.00	32.95 \pm 0.25	31.6 \pm 0.40	22.25 \pm 0.35	13 min.	21.65 \pm 0.35	48.75 \pm 0.75	11500	9800
3	E-8020A	80 \pm 1.80	38.1 \pm 0.40	19.8 \pm 0.40	28.3 \pm 0.40	19.35 min.	19.8 \pm 0.40	60.2 \pm 1.30	5300	4600

Toroids

See Fig.	P/N	Od mm	Id mm	h mm	Materials (A_L nH \pm 25%)				
					B1	B2	A6		
4	T-5000A	50 \pm 1.50	15 \pm 0.45	10 \pm 0.35				6050	4600
4	T-5600A	55.4 \pm 1.95	32.35 \pm 1.15	18 \pm 0.75				4850	3700
4	T-6300A	63 \pm 2.00	38 \pm 1.20	25 \pm 0.80				6300	4750
4	T-6700A	67 \pm 2.00	15 \pm 0.50	20 \pm 0.60				12500	11500
4	T-7500A	75 \pm 2.00	23 \pm 0.50	20 \pm 0.70				11000	8950
4	T-8000A	80 \pm 2.80	40 \pm 1.40	15 \pm 0.60				5000	3950
4	T--100B	100 \pm 3.50	55 \pm 1.95	20 \pm 0.80				5000	4550
4	T--100C	100 \pm 3.50	67 \pm 2.00	20 \pm 0.80				3900	2950
4	T--124A	124.5 \pm 3.50	42 \pm 1.50	16 \pm 1.00				8600	6650
4	T--152A	152 \pm 5.00	68.5 \pm 2.00	19 \pm 0.50				6600	5750
4	T--152C	152 \pm 5.00	104 \pm 3.60	19 \pm 0.80				3600	2750

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #161. Visit our website <http://www.avxcorp.com>

Soft Ferrites

Power Applications

Switch Mode Power Supply



Fig. 5

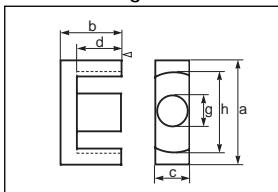


Fig. 6

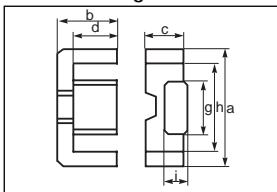


Fig. 7

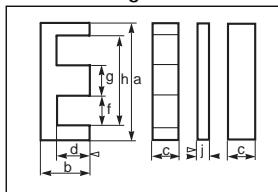
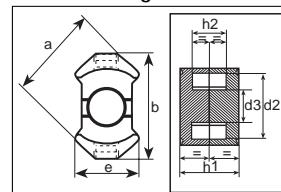


Fig. 8



E Cores

See Fig.	P/N	a mm	b mm	c mm	d mm	f mm	g mm	h mm	Materials (A_L nH $\pm 25\%$)				Bobbin available	
									B1	B2	F1	F2		
ETD cores														
5	ET2910A	29.8 \pm 0.80	15.8 \pm 0.20	9.5 \pm 0.30	11 \pm 0.30		9.5 \pm 0.30	22.7 \pm 0.70		2350	1950	2400	2100	•
5	ET3411A	34.2 \pm 0.80	17.3 \pm 0.20	10.8 \pm 0.30	12.1 \pm 0.30		10.8 \pm 0.30	26.3 \pm 0.70		2850	2250	2800	2400	•
5	ET3913A	39.1 \pm 0.90	19.8 \pm 0.20	12.5 \pm 0.30	14.6 \pm 0.40		12.5 \pm 0.30	30.1 \pm 0.80		3150	2470	3200	2700	•
5	ET4415A	44 \pm 1.00	22.3 \pm 0.20	14.8 \pm 0.40	16.5 \pm 0.40		14.8 \pm 0.40	33.3 \pm 0.80		3900	3100	—	3400	•
5	ET4916A	48.7 \pm 1.10	24.7 \pm 0.20	16.3 \pm 0.40	18.1 \pm 0.40		16.3 \pm 0.40	37 \pm 0.90		4500	3525	—	—	•
5	ET5419A	54.5 \pm 1.30	27.6 \pm 0.20	18.9 \pm 0.40	20.2 \pm 0.40		18.9 \pm 0.40	41.2 \pm 1.10		5900	4400	—	—	
See Fig.	P/N	a	b	c	d	f	g	h		B1	B2	F2	F4	
EFD cores														
6	EF1505A	15 \pm 0.40	7.5 \pm 0.15	4.65 \pm 0.15	5.5 \pm 0.25		5.3 \pm 0.15	11 \pm 0.35		—	700	695	435	•
6	EF2007A	20 \pm 0.55	10 \pm 0.15	6.65 \pm 0.15	7.7 \pm 0.25		8.9 \pm 0.20	15.4 \pm 0.50		—	1150	1100	670	•
6	EF2509A	25 \pm 0.65	12.5 \pm 0.15	9.1 \pm 0.20	9.3 \pm 0.25		11.4 \pm 0.20	18.7 \pm 0.60		—	1800	1850	1100	•
6	EF3009A	30 \pm 0.80	15 \pm 0.15	9.1 \pm 0.20	11.2 \pm 0.30		14.6 \pm 0.25	22.4 \pm 0.75		—	1900	1650	1150	•
See Fig.	P/N	a	b	c	d	f	g	h		B1	B2	F1		
E cores														
7	E-1905A	19.15 \pm 0.75	7.9 \pm 0.25	4.8 \pm 0.20	5.6 \pm 0.15	4.82 min.	4.65 \pm 0.15	14.75 \pm 0.30		1140	900	1050		•
7	E-2006A	20 \pm 0.40	9.95 \pm 0.15	5.7 \pm 0.20	7.15 \pm 0.15	4.1 min.	5.75 \pm 0.15	14.4 \pm 0.30		1450	1160	1250		•
7	E-2506A	25.3 \pm 0.50	9.5 \pm 0.25	6.35 \pm 0.25	6.35 \pm 0.25	6.1 min.	6.32 \pm 0.125	19.02 \pm 0.38		1950	1540	1650		•
7	E-2507A	25.4 \pm 0.40	12.6 \pm 0.20	7.28 \pm 0.22	8.9 \pm 0.20	4.87 min.	7.5 \pm 0.15	17.65 \pm 0.25		2200	1760	2050		•
7	E-3007B	30.1 \pm 0.70	15 \pm 0.20	7.05 \pm 0.25	10 \pm 0.30	6.15 min.	6.95 \pm 0.25	19.9 \pm 0.40		2000	1600	2000		
7	E-3109B	30.5 \pm 0.60	13.4 \pm 0.15	9.1 \pm 0.30	9.05 \pm 0.15	6.20 min.	9.1 \pm 0.30	22.2 \pm 0.40		2900	2600	2600		
7	E-3509A	34.9 \pm 0.70	14.4 \pm 0.25	9.15 \pm 0.25	9.9 \pm 0.25	8 min.	9.2 \pm 0.25	26 \pm 0.50		3000	2400	2600		•
7	E-4112A	40.7 \pm 0.80	16.4 \pm 0.25	12.45 \pm 0.25	10.5 \pm 0.25	7.95 min.	12.45 \pm 0.25	29.1 \pm 0.50		4700	4000	4400		
7	E-4215A	42.15 \pm 0.85	21 \pm 0.20	14.95 \pm 0.25	15.15 \pm 0.35	8.65 min.	11.95 \pm 0.25	30.1 \pm 0.60		5000	3750	—		•
7	E-4220A	42.15 \pm 0.85	21 \pm 0.20	19.5 \pm 0.50	15.15 \pm 0.35	8.65 min.	11.95 \pm 0.25	30.1 \pm 0.60		6500	4875	—		•
7	E-4916A	48.85 \pm 0.75	20.6 \pm 0.20	15.6 \pm 0.40	12.11 \pm 0.20	7.95 min.	15.6 \pm 0.25	32.4 \pm 0.65		7000	5600	—		•
See Fig.	P/N	a	b	c	d	f	g	h	j	B1	B2			
EI cores														
7	EI2206A	22 \pm 0.45	15 \pm 0.20	5.75 \pm 0.25	11 \pm 0.25	4.98 min.	5.75 \pm 0.25	16.3 \pm 0.35	4 \pm 0.20	1760	1400			
7	EI2506C	25.4 \pm 0.50	16 \pm 0.26	6.35 \pm 0.25	12.83 \pm 0.25	6.07 min.	6.35 \pm 0.15	19.04 \pm 0.40	3.18 \pm 0.20	1900	1450			
7	EI2811A	28 \pm 0.55	17 \pm 0.20	10.75 \pm 0.20	12.5 \pm 0.30	5.55 min.	7.25 \pm 0.25	18.85 \pm 0.25	3.5 \pm 0.20	3960	3200			
7	EI3011B	30.25 \pm 0.60	21.3 \pm 0.20	10.65 \pm 0.35	16.3 \pm 0.30	4.55 min.	10.65 \pm 0.25	20.35 \pm 0.35	5.5 \pm 0.20	4230	3600			
7	EI3313A	33 \pm 0.65	23.3 \pm 0.30	12.7 \pm 0.30	19.05 \pm 0.40	6.59 min.	9.55 \pm 0.20	23.5 \pm 0.58	5 \pm 0.20	4200	3190			
7	EI3510B	34.9 \pm 0.70	23.8 \pm 0.25	9.52 \pm 0.40	19.05 \pm 0.40	7.61 min.	9.52 \pm 0.20	25.43 \pm 0.50	4.75 \pm 0.20	3150	2500			
7	EI3512C	35.15 \pm 0.65	23.45 \pm 0.35	11.7 \pm 0.30	18.3 \pm 0.30	7.15 min.	10 \pm 0.30	24.6 min.	5.5 \pm 0.20	3400	3450			
7	EI4012D	40 \pm 0.50	27.25 \pm 0.25	11.65 \pm 0.35	20.25 \pm 0.25	8.25 min.	11.65 \pm 0.35	29 \pm 0.50	7.5 \pm 0.30	5000	4000			
7	EI4215B	42.8 \pm 0.85	21.1 \pm 0.20	15.47 \pm 0.25	15.11 \pm 0.35	9.11 min.	11.9 \pm 0.25	30.97 \pm 0.60	5.97 \pm 0.20	7100	5150			
See Fig.	P/N	a	b	c	d	f	g	h	f	B1	B2			
ER cores														
5	ER2811A	28.55 \pm 0.55	16.9 \pm 0.25	11.4 \pm 0.25	12.53 \pm 0.28		9.9 \pm 0.25	21.6 \pm 0.40		2700	2400			
5	ER3411A	34.2 \pm 0.80	13 \pm 0.20	10.8 \pm 0.30	7.8 \pm 0.30		10.8 \pm 0.30	26.3 \pm 0.70		3200	2900			
5	ER3511A	35 \pm 0.90	20.3 \pm 0.20	11.3 \pm 0.40	14.8 \pm 0.40		11.3 \pm 0.35	26.4 \pm 0.90		3200	2600			
5	ER3913D	39.1 \pm 0.90	22.2 \pm 0.20	12.5 \pm 0.30	17 \pm 0.35		12.5 \pm 0.30	30.1 \pm 0.80		3000	2500			
5	ER4013A	40 \pm 0.90	22.4 \pm 0.20	13.3 \pm 0.25	15.45 \pm 0.30		13.3 \pm 0.25	29.7 \pm 0.70		4200	3250			
5	ER4215A	42 \pm 0.60	21.6 \pm 0.20	14.7 \pm 0.30	15.9 \pm 0.30		14.7 \pm 0.30	31 \pm 0.50		4400	3500			

RM Cores

See Fig.	P/N	a mm	b mm	c mm	h1 mm	h2 mm	d2 mm	d3 mm	h2	Materials (A_L nH $\pm 25\%$)				Bobbin available
										B2	F2			
8	RM0500B	12.05 \pm 0.25	14.3 \pm 0.30	10 max.	10.4 \pm 0.10	6.5 \pm 0.20	10.4 \pm 0.20	4.8 \pm 0.10	6.5 \pm 0.20	1600	1450			•
8	RM0600B	14.4 \pm 0.30	17.3 \pm 0.30	10.75 max.	12.4 \pm 0.10	8.2 \pm 0.20	12.65 \pm 0.25	6.3 \pm 0.10	8.2 \pm 0.20	2000	2000			•
8	RM0800B	19.25 \pm 0.45	22.75 \pm 0.45	15.7 max.	16.3 \pm 0.20	11.2 \pm 0.40	17.3 \pm 0.30	8.4 \pm 0.15	11.2 \pm 0.40	3100	2800			
8	RM1000B	24.15 \pm 0.55	27.85 \pm 0.65		18.6 \pm 0.10	12.7 \pm 0.30	21.65 \pm 0.45	10.7 \pm 0.20	12.7 \pm 0.30	3800	3800			•
8	RM1400B	34.1 \pm 0.6	41.5 \pm 0.70		28.9 \pm 0.10	21.1 \pm 0.30	29.6 \pm 0.60	14.7 \pm 0.30	10.55 \pm 0.15	5200	5200			•

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
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Soft Ferrites

Power Applications

Consumer TV & Monitors



Fig. 9

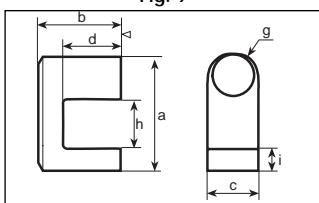


Fig. 10

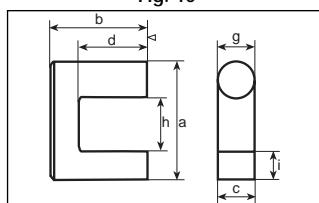
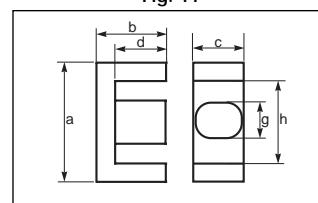


Fig. 11



UR Cores Are Available In Materials B3, B5, B7 and F1

See Fig.	P/N	a mm	b mm	c mm	d mm	g mm	h mm	i mm	Effective core parameters		
									I_e mm	A_e mm ²	C nH
10	UR2810A	28 ± 0.60	15.75 ± 0.25	10 ± 0.30	11 ± 0.30	10 ± 0.30	13 ± 0.30	5 ± 0.10	85	50	0.74
9	UR2814A	28.8 max.	20.25 ± 0.25	13.5 ± 0.30	13.25 ± 0.25	11.2 ± 0.30	9 ± 0.50	7.5 ± 0.30	97	98	1.27
9	UR2820A	28.45 ± 0.60	16.2 ± 0.20	19.6 ± 0.40	11 ± 0.40	12.5 ± 0.30	10.6 ± 0.40	5.35 ± 0.15	87	109	1.6
9	UR3012C	30 ± 0.80	21.7 ± 0.20	12 ± 0.40	15.6 min.	10 ± 0.30	15 ± 0.70	5 ± 0.20	113	68	0.75
9	UR3012D	30 ± 0.80	25.9 ± 0.20	12 ± 0.40	20.2 ± 0.45	10 ± 0.30	15 ± 0.70	5 ± 0.20	130	68	0.65
10	UR3110B	31.5 ± 0.80	22.5 ± 0.30	10 ± 0.30	14 ± 0.25	10 ± 0.30	13.5 ± 0.50	8 nomi	109	78	0.9
10	UR3110D	31.5 ± 0.80	20.2 ± 0.25	10 ± 0.30	11.7 ± 0.25	10 ± 0.30	13.5 ± 0.50	8 nomi	100	78	1
10	UR3513A	35.4 ± 1.00	27.5 ± 0.30	13.1 ± 0.40	17.5 ± 0.30	13 ± 0.30	12 min.	10 ± 0.30	127	129	1.30
10	UR3513B	35.15 ± 1.00	30.8 ± 0.30	12.8 ± 0.30	20.5 ± 0.50	12.7 ± 0.30	13.05 min.	9.3 ± 0.30	141	121	1.08
10	UR3513D	35.15 ± 1.00	34.3 ± 0.50	12.8 ± 0.30	24 ± 0.50	12.7 ± 0.30	13.05 min.	9.3 ± 0.30	156	124	1
10	UR3713A	37.2 ± 1.00	29.4 ± 0.30	13.1 ± 0.40	18.9 ± 0.30	13 ± 0.30	13.2 min.	10.5 ± 0.20	136	133	1.23
9	UR3718B	36.9 ± 0.80	25.5 ± 0.40	18 ± 0.40	16.8 min.	14.7 ± 0.30	14.9 ± 1.00	7.3 ± 0.20	127	149	1.47
9	UR3718C	36.9 ± 0.80	28.8 ± 0.20	18 ± 0.40	20.3 ± 0.40	14.7 ± 0.30	14.9 ± 1.00	7.3 ± 0.20	140	149	1.33
10	UR3814A	37.5 ± 0.80	31.8 ± 0.30	14.1 ± 0.30	21.3 ± 0.40	14 ± 0.30	13 ± 0.50	10.5 ± 0.30	145	145	1.26
10	UR3915A	38.7 ± 1.00	35.2 ± 0.50	15.1 ± 0.40	24.8 ± 0.50	15 ± 0.40	15 ± 1.00	9.1 ± 0.30	164	148	1.13
10	UR4014A	40 ± 0.80	30.2 ± 0.30	14.1 ± 0.30	18.4 ± 0.40	14 ± 0.30	14.5 ± 0.40	11.5 ± 0.30	140	156	1.4
9	UR4022A	40.1 max.	31.9 ± 0.20	22 ± 0.50	23.9 ± 0.40	15.05 ± 0.25	15.6 ± 1.00	8 ± 0.20	158	177	1.4
10	UR4115A	40.8 ± 0.80	33.7 ± 0.30	14.6 ± 0.40	21.8 ± 0.40	14.5 ± 0.30	13.8 min.	12 ± 0.25	154	165	1.35
10	UR4215A	42.2 ± 0.85	36.3 ± 0.30	15.1 ± 0.30	24 min.	15 ± 0.30	14.5 min.	12 ± 0.25	168	178	1.35
10	UR4216B	43.2 max.	34 ± 0.20	15.9 ± 0.40	24 ± 0.40	15.8 ± 0.25	16.35 ± 0.65	9.6 ± 0.30	163	166	1.3
10	UR4316A	43.2 ± 0.90	29.5 ± 0.30	16.1 ± 0.30	17.5 ± 0.40	16 ± 0.30	15.2 ± 0.80	12 ± 0.30	140	190.3	1.71
10	UR4618A	46 ± 1.00	38.8 ± 0.30	17.9 ± 0.40	25.8 ± 0.30	17.8 ± 0.30	14.65 min.	13 ± 0.30	142	238	2.1
10	UR4916A	48.5 ± 1.00	39 ± 0.30	16.1 ± 0.40	25.9 ± 0.50	16 ± 0.30	18.9 min.	13 ± 0.25	186	207	1.4
9	UR5536A	54.9 ± 1.10	37.5 ± 0.25	36 ± 0.70	25.5 ± 0.40	23.5 ± 0.45	20 ± 0.40	12 ± 0.25	188	418	2.8

UR cores with grooves are available, contact your local representative for detailed specifications.

E Cores

See Fig.	P/N	a mm	b mm	c mm	d mm	g mm	h mm	B1	B2	B3	F1	Bobbin available
ETD cores												
5	ET2910A	29.8 ± 0.80	15.8 ± 0.20	9.5 ± 0.30	11 ± 0.30	9.5 ± 0.30	22.7 ± 0.70	2350	1950	2100	2400	•
5	ET3411A	34.2 ± 0.80	17.3 ± 0.20	10.8 ± 0.30	12.1 ± 0.30	10.8 ± 0.30	26.3 ± 0.70	2850	2250	2400	2800	•
5	ET3913A	39.1 ± 0.90	19.8 ± 0.20	12.5 ± 0.30	14.6 ± 0.40	12.5 ± 0.30	30.1 ± 0.80	3150	2470	2700	3200	•
5	ET4415A	44 ± 1.00	22.3 ± 0.20	14.8 ± 0.40	16.5 ± 0.40	14.8 ± 0.40	33.3 ± 0.80	3900	3100	3400		•
5	ET4916A	48.7 ± 1.10	24.7 ± 0.20	16.3 ± 0.40	18.1 ± 0.40	16.3 ± 0.40	37 ± 0.90	4500	3525	3900		•
5	ET5419A	54.5 ± 1.30	27.6 ± 0.20	18.9 ± 0.40	20.2 ± 0.40	18.9 ± 0.40	41.2 ± 1.10	5900	4400	4700		
ER cores												
5	ER2811A	28.55 ± 0.55	16.9 ± 0.25	11.4 ± 0.25	12.53 ± 0.28	9.9 ± 0.25	21.6 ± 0.40	2700		1650	2650	
5	ER3411A	34.2 ± 0.80	13 ± 0.20	10.8 ± 0.30	7.8 ± 0.30	10.8 ± 0.30	26.3 ± 0.70	3200		2900	3400	
5	ER3511A	35 ± 0.90	20.3 ± 0.20	11.3 ± 0.40	14.8 ± 0.40	11.3 ± 0.35	26.4 ± 0.90	3200		2400	2800	
5	ER3913D	39.1 ± 0.90	22.2 ± 0.20	12.5 ± 0.30	17 ± 0.35	12.5 ± 0.30	30.1 ± 0.80	3000		2500	2950	
5	ER4013A	40 ± 0.90	22.4 ± 0.20	13.3 ± 0.25	15.45 ± 0.30	13.3 ± 0.25	29.7 ± 0.70	4200		2700	3800	
5	ER4215A	42 ± 0.60	21.6 ± 0.20	14.7 ± 0.30	15.9 ± 0.30	14.7 ± 0.30	31 ± 0.50	4400		3500	4200	
ED cores												
11	ED2912B	29.3 ± 0.80	14.6 ± 0.25	11.9 ± 0.25	11 ± 0.20	8.4 ± 0.20	22 ± 0.40		2200	2400	2750	
11	ED2912C	29.3 ± 0.80	10.2 ± 0.25	11.9 ± 0.25	6.6 ± 0.20	8.4 ± 0.20	22 ± 0.40		2950	2950	3400	
11	ED2912D	29.3 ± 0.80	12.2 ± 0.25	11.9 ± 0.25	8.6 ± 0.20	8.4 ± 0.20	22 ± 0.40		2450	2500	3100	

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Soft Ferrites

Power Applications

Electronic Ballast



Fig. 12

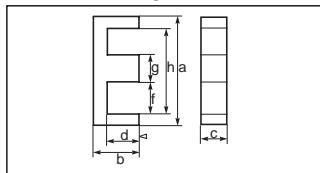
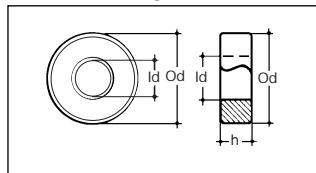


Fig. 13



E Cores

See Fig.	P/N	a mm	b mm	c mm	d mm	f min mm	g mm	h mm	Materials (Al ± 25%)			
									B1	B2	F1	Bobbin available
12	E-1304A	12.8 ± 0.20	6.4 ± 0.10	3.55 ± 0.15	4.65 ± 0.15	2.6	3.55 ± 0.15	9.2 ± 0.30	840	720	1250	
12	E-1306A	13 ± 0.45	6 ± 0.20	6.15 ± 0.20	4.65 ± 0.15	3.64	2.78 ± 0.18	10.48 ± 0.25	1040	850	920	
12	E-1605A	16 ± 0.50	7.15 ± 0.20	4.9 ± 0.20	5.1 ± 0.20	3.8	4 ± 0.15	12 ± 0.25	1150	1000	1000	
12	E-1605B	16 ± 0.50	12.25 ± 0.20	4.85 ± 0.20	10.25 ± 0.25	3.75	4 ± 0.20	12 ± 0.30	700	640		
12	E-1605C	16.1 ± 0.60	8.05 ± 0.15	4.5 ± 0.20	5.9 ± 0.20	3.3	4.55 ± 0.15	11.6 ± 0.30	1240	875		
12	E-1905A	19.15 ± 0.75	7.9 ± 0.25	4.8 ± 0.20	5.6 ± 0.15	4.82	4.65 ± 0.15	14.75 ± 0.30	1140	900	1050	•
12	E-1907A	19.15 ± 0.75	7.9 ± 0.25	6.65 ± 0.25	5.6 ± 0.15	4.82	4.65 ± 0.15	14.75 ± 0.30	1600	1300		•
12	E-2005B	19.5 ± 0.40	13.55 ± 0.20	5 ± 0.25	11.15 ± 0.20	4.5	4.55 ± 0.15	14 ± 0.30	920	745		
12	E-2006A	20 ± 0.40	9.95 ± 0.15	5.7 ± 0.20	7.15 ± 0.15	4.1	5.75 ± 0.15	14.4 ± 0.30	1450	1160	1250	•
12	E-2206A	22 ± 0.45	15 ± 0.20	5.75 ± 0.25	11 ± 0.25	4.98	5.75 ± 0.25	16.3 ± 0.35	1250	1000		
12	E-2506A	25.3 ± 0.50	9.5 ± 0.25	6.35 ± 0.25	6.35 ± 0.25	6.1	6.32 ± 0.125	19.02 ± 0.38	1950	1540	1650	•
12	E-2506B	25.3 ± 0.50	9.9 ± 0.25	6.35 ± 0.25	6.75 ± 0.25	6.1	6.32 ± 0.125	19.02 ± 0.38	2000	1600		
12	E-2506C	25.4 ± 0.50	16 ± 0.25	6.35 ± 0.25	12.83 ± 0.25	6.07	6.35 ± 0.15	19.04 ± 0.40	1350	1150	1250	
12	E-2507A	25.4 ± 0.40	12.6 ± 0.20	7.28 ± 0.22	8.9 ± 0.20	4.87	7.5 ± 0.15	17.65 ± 0.25	2200	1760	2050	•
12	E-2507B	25.4 ± 0.50	16 ± 0.26	6.5 ± 0.25	12.83 ± 0.25	6.07	6.35 ± 0.15	19.04 ± 0.40	1300	1200		
12	E-2811A	28 ± 0.55	17 ± 0.20	10.75 ± 0.20	12.5 ± 0.30	5.55	7.25 ± 0.25	18.85 ± 0.25	2700	2400		
12	E-3007B	30.1 ± 0.70	15 ± 0.20	7.05 ± 0.25	10 ± 0.30	6.15	6.95 ± 0.25	19.9 ± 0.4	2000	1600	2000	
12	E-3011A	30 ± 0.60	13.15 ± 0.20	10.7 ± 0.30	8.15 ± 0.15	4.38	10.7 ± 0.25	20 ± 0.30	4700	3500		
12	E-3109B	30.5 ± 0.60	13.4 ± 0.15	9.1 ± 0.30	9.05 ± 0.15	6.2	9.1 ± 0.30	22.2 ± 0.40	2900	2600		
12	E-3213A	31.9 ± 1.00	14 ± 0.40	12.7 ± 0.30	9.65 ± 0.25	6.4	8.9 ± 0.25	22.77 ± 0.77	4000	3200	3750	•
12	E-3509A	34.9 ± 0.70	14.4 ± 0.25	9.15 ± 0.25	9.9 ± 0.25	8	9.2 ± 0.25	26 ± 0.50	3000	2400	2600	•
12	E-3509B	34.9 ± 0.70	14.4 ± 0.25	9.15 ± 0.25	9.8 ± 0.25	7.9	9.2 ± 0.25	25.75 ± 0.50	3000	2500		
12	E-3510A	34.9 ± 0.70	14.4 ± 0.25	9.7 ± 0.20	9.9 ± 0.25	8.03	9.2 ± 0.25	26 ± 0.50	3000	2500		
12	E-3510B	34.9 ± 0.70	23.8 ± 0.25	9.52 ± 0.40	19.05 ± 0.40	7.61	9.52 ± 0.20	25.43 ± 0.50	2100	1750		
12	E-3512A	34.9 ± 0.70	14.4 ± 0.25	12 ± 0.25	9.8 ± 0.25	7.9	9.2 ± 0.25	25.75 ± 0.50	3750	3000		
12	E-3512B	34.9 ± 0.70	23.8 ± 0.25	12 ± 0.40	19.05 ± 0.40	7.61	9.52 ± 0.20	25.43 ± 0.50	2100			
12	E-4012B	40.5 ± 0.40	27.25 ± 0.25	11.65 ± 0.35	20.25 ± 0.40	7.78	11.65 ± 0.25	28 ± 0.55	3250	2550		
12	E-4012C	39.9 ± 0.80	17.3 ± 0.15	11.87 ± 0.20	10.20 ± 0.20	7.8	11.65 ± 0.25	28.05 ± 0.55	4900	3750		
12	E-4112A	40.7 ± 0.80	16.4 ± 0.25	12.45 ± 0.25	10.5 ± 0.25	7.95	12.45 ± 0.25	29.1 ± 0.50	4700	4000	4400	
12	E-4215A	42.15 ± 0.85	21 ± 0.20	14.95 ± 0.25	15.15 ± 0.35	8.65	11.95 ± 0.25	30.1 ± 0.60	5000	3750		•
12	E-4215H	42.3 ± 0.85	21.4 ± 0.20	15 ± 0.25	15.4 ± 0.35	8.75	12 ± 0.25	30.3 ± 0.60	4875	3650		
12	E-4220A	42.15 ± 0.85	21 ± 0.20	19.5 ± 0.50	15.15 ± 0.35	8.65	11.95 ± 0.25	30.1 ± 0.60	6500	4875		•
12	E-4220H	42.3 ± 0.85	21.4 ± 0.20	19.6 ± 0.40	15.4 ± 0.35	8.75	12 ± 0.25	30.3 ± 0.60	6475	4875		

Toroids

See Fig.	P/N	Dimensions for uncoated toroids			Dimensions for coated toroids			Materials (Al nH ± 25%)		
		Od mm	Id mm	h mm	Od mm	Id mm	h mm	B2	F1	
13	TR1270A	12.7 ± 0.40	7.14 ± 0.25	4.7 ± 0.20	13.9 max.	6.09 min.	5.7 max.	870	1100	
13	TR2000B	20 ± 0.60	10 ± 0.30	7 ± 0.25	21.4 max.	8.9 min.	8.05 max.	1600	1950	
13	TR2000D	20 ± 0.60	10.5 ± 0.35	15 ± 0.55	21.4 max.	9 min.	16.35 max.	3100	3900	
13	TR2210A	22.1 ± 0.65	13.72 ± 0.40	12.7 ± 0.45	23.55 max.	12.52 min.	13.95 max.	2000	2450	
13	TR2500A	25 ± 0.75	15 ± 0.45	10 ± 0.35	26.55 max.	13.75 min.	11.15 max.	1750	2050	
13	TR2500B	25 ± 0.75	15 ± 0.45	15 ± 0.55	26.55 max.	13.75 min.	16.35 max.	2550	3100	
13	TR2800B	27.6 ± 0.60	17.6 ± 0.40	15.4 ± 0.30	29 max.	16.4 min.	16.5 max.	2050	2750	
13	TR2800C	27.6 ± 0.60	17.6 ± 0.40	7 ± 0.20	29 max.	16.4 min.	8 max.	1000	1300	
13	TR3150C	31.5 ± 0.95	19 ± 0.60	20 ± 0.70	33.25 max.	17.65 min.	21.5 max.	3400	4100	
13	TR3600A	36 ± 1.10	23 ± 0.70	15 ± 0.55	37.9 max.	21.5 min.	16.35 max.	2200	2700	
13	TR4000A	40 ± 1.20	24 ± 0.70	16 ± 0.50	42 max.	22.45 min.	17.4 max.	2750	3300	

Coating : → Polyamide or Epoxy (contact your local representative)
 → Thickness : < 0.4 mm (to be added on mechanical dimensions)

→ Breakdown voltage > 2000 V_{DC}

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #164. Visit our website <http://www.avxcorp.com>

2mm Hard Metric Connectors

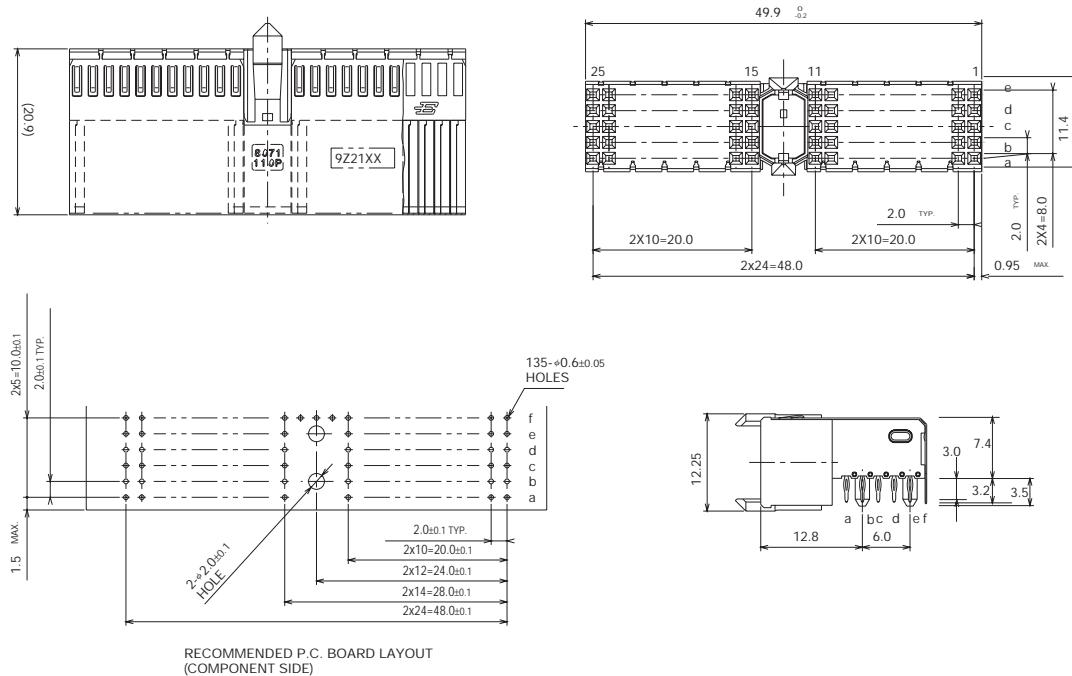


Series 8071 Type A Right Angle Female

27 8071 110 011 833 = Type A Right Angle Female with top shield, with pegs

27 8071 110 012 833 = Type A Right Angle Female with top shield, without pegs

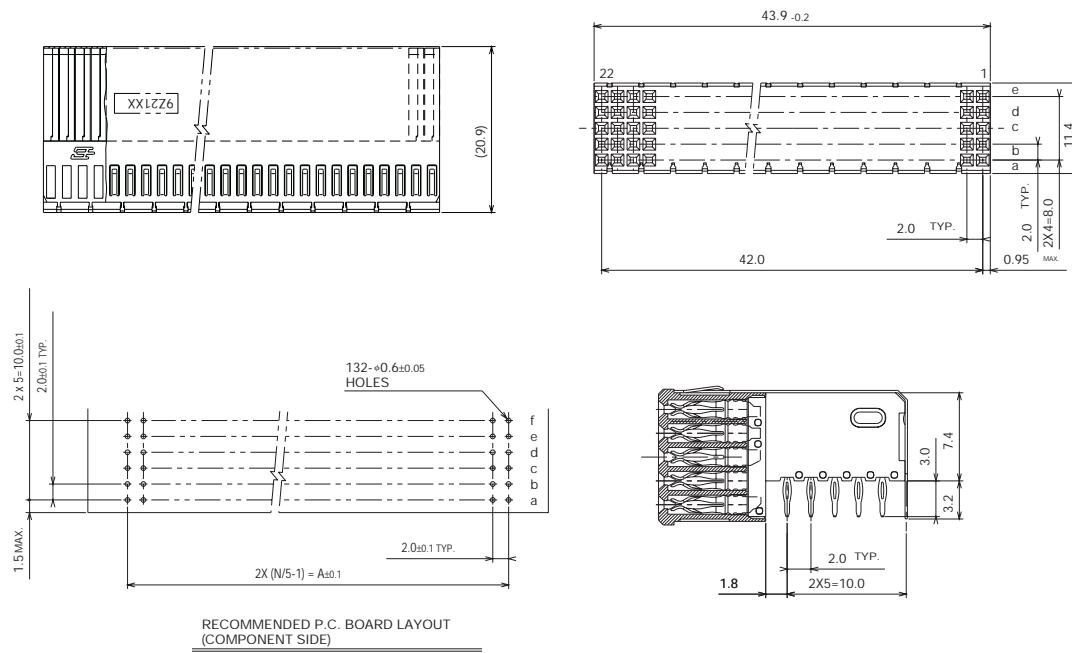
Contact Elco for availability of alternate platings



Series 8071 Type B Right Angle Female

27 8071 110 010 833 = Type B 110 Pin Right Angle Female with upper shield

Contact Elco for availability of alternate platings



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #165. Visit our website <http://www.avxcorp.com>

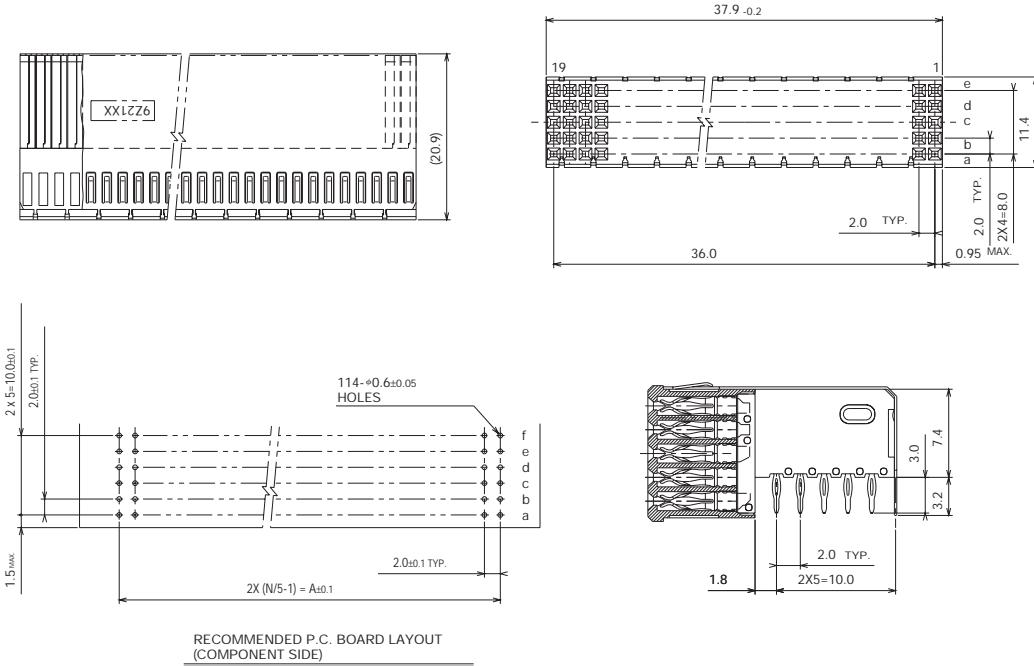
2mm Hard Metric Connectors



Series 8071 Type B Right Angle Female

27 8071 095 010 833 = Type B 95 Pin Right Angle Female with upper shield

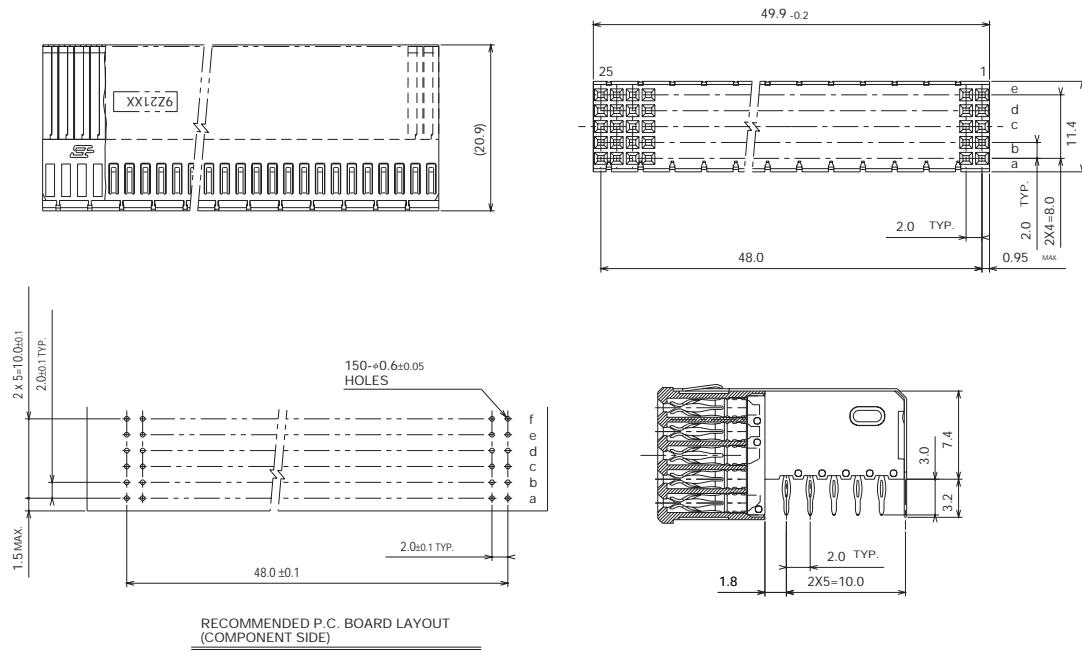
Contact Elco for availability of alternate platings



Series 8071 Type B Right Angle Female

27 8071 125 010 833 = Type B 125 Pin Right Angle Receptacle with upper shield

Contact Elco for availability of alternate platings



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #166. Visit our website <http://www.avxcorp.com>

ELCO

2mm Hard Metric Connectors

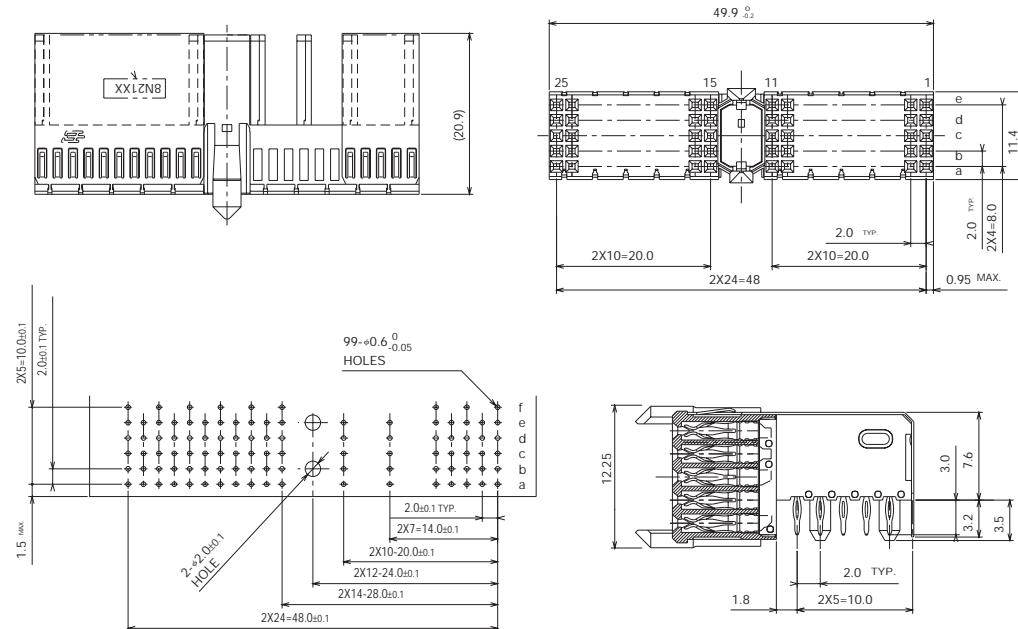


Series 8071 Type A Right Angle Female with Split Shield

27 8071 090 501 833 = Type A Right Angle Female with upper shield, with peg

27 8071 090 502 833 = Type A Right Angle Female with upper shield, without peg

Contact Elco for availability of alternate platings

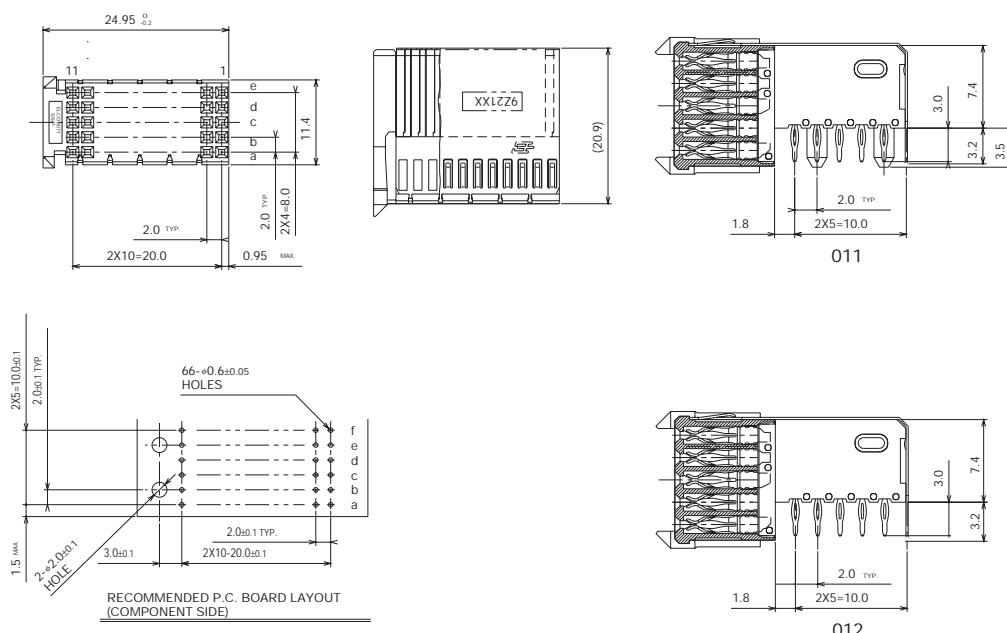


Series 8071 Type C Right Angle Female

27 8071 055 011 833 = Type C 55 Pin Right Angle Female with upper shield, with peg

27 8071 055 012 833 = Type C 55 Pin Right Angle Female with upper shield, without peg

Contact Elco for availability of alternate platings



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
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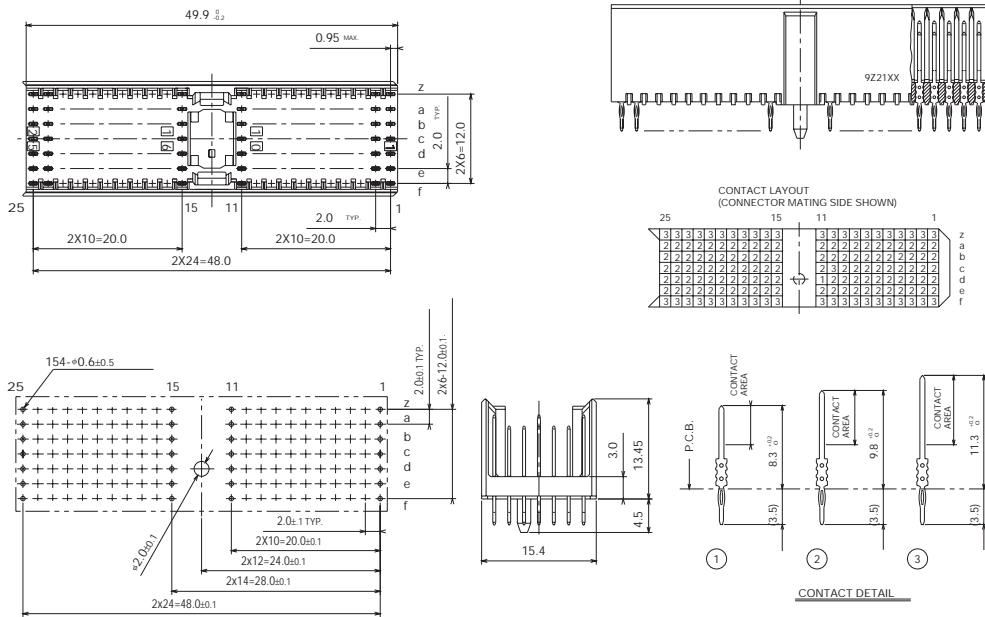
2mm Hard Metric Connectors



Series 8071 Type A Vertical Male Feed-To

17 8071 154 001 833 = P1 110 signal contacts and 44 ground contacts, Short Tail, Std cPCI

Contact Elco for availability of alternate platings

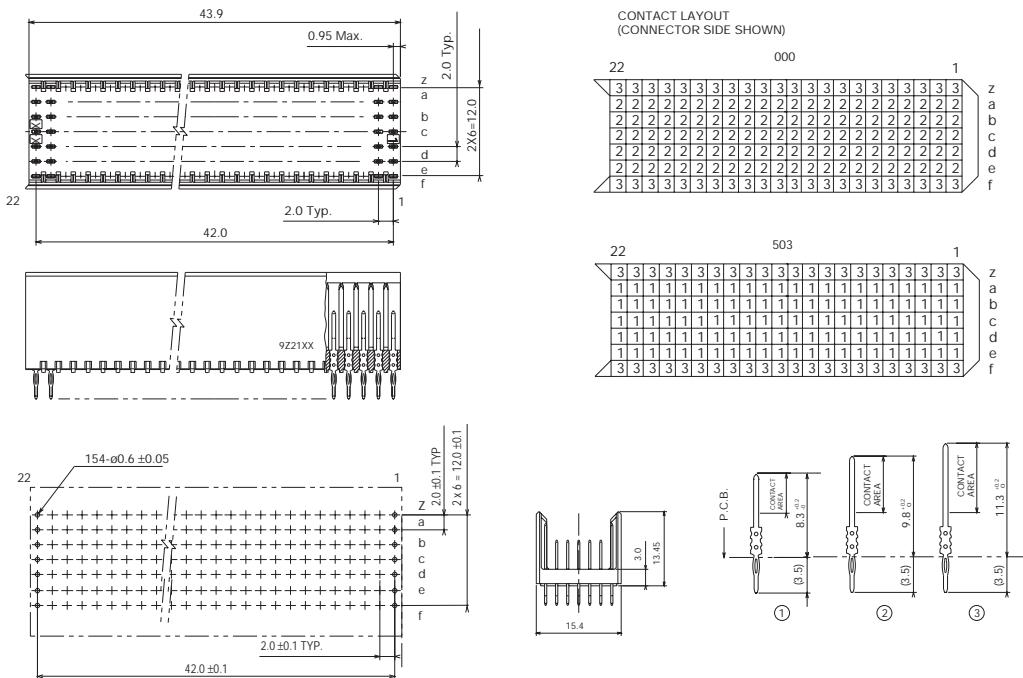


Series 8071 Type B Vertical Male Feed-To

17 8071 154 000 833 = P2/P5 110 signal contacts and 44 ground contacts, Short Tail Std L2,3 cPCI

17 8071 154 503 833 = P2/P5 110 signal contacts and 44 ground contacts, Short Tail Std L1,3 cPCI

Contact Elco for availability of alternate platings



RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE SHOWN)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #168. Visit our website <http://www.avxcorp.com>

ELCO

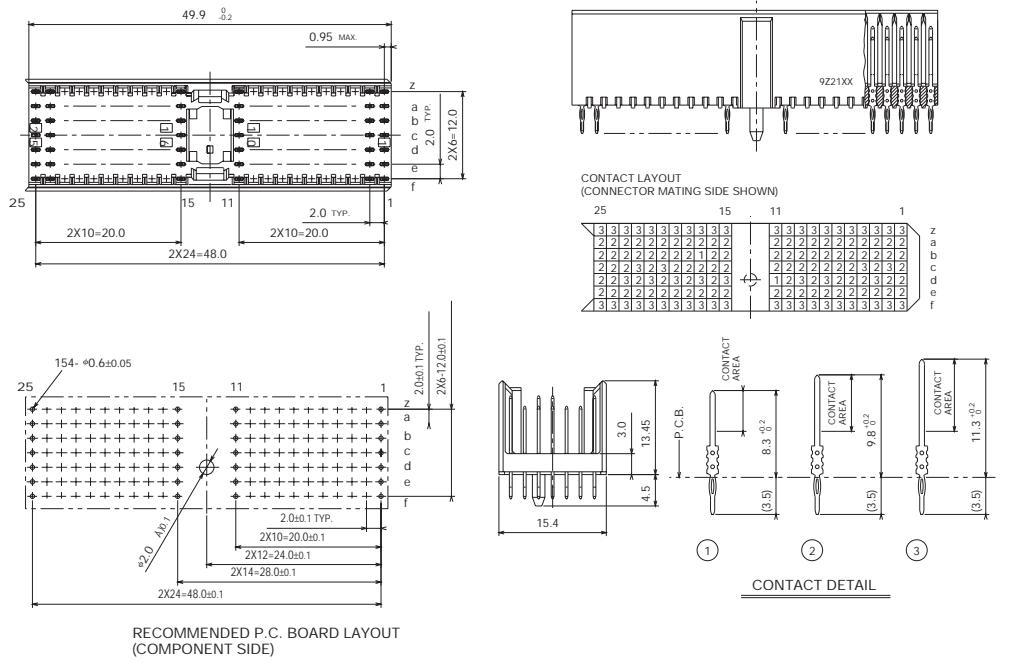
2mm Hard Metric Connectors



Series 8071 Type A Vertical Male Feed-To (Hot Swap)

17 8071 154 508 833 = P1 110 signal contacts and 44 ground contacts, Short Tail, Hot Swap

Contact Elco for availability of alternate platings

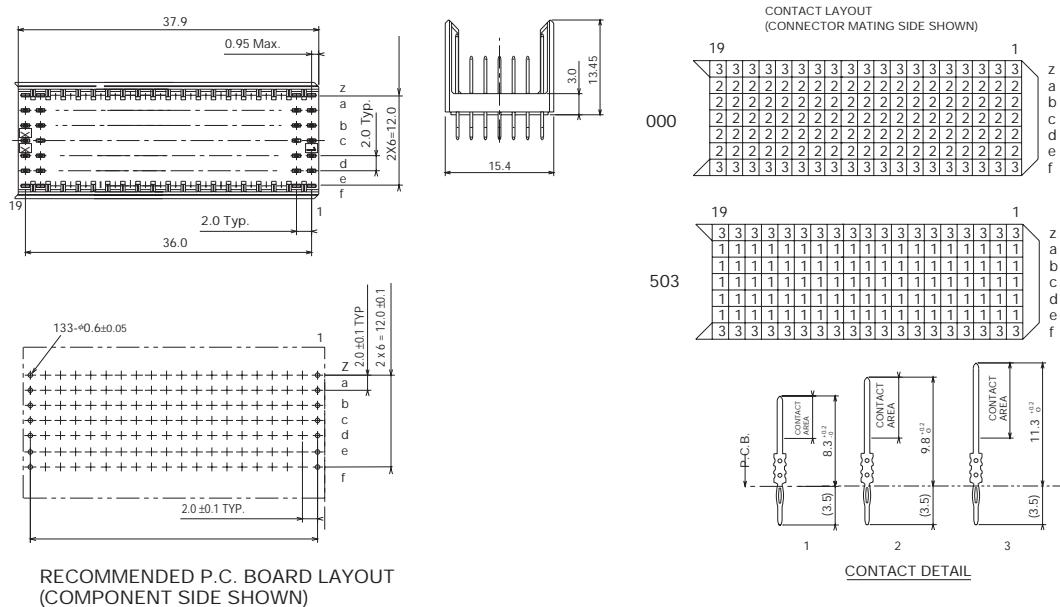


Series 8071 Type B Vertical Male Feed-To

17 8071 133 000 833 = P3 95 signal contacts and 38 ground contacts, Short Tail, L2,3 cPCI

17 8071 133 503 833 = P3 95 signal contacts and 38 ground contacts, Short Tail, L1,3 cPCI

Contact Elco for availability of alternate platings



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #169. Visit our website <http://www.avxcorp.com>

ELCO

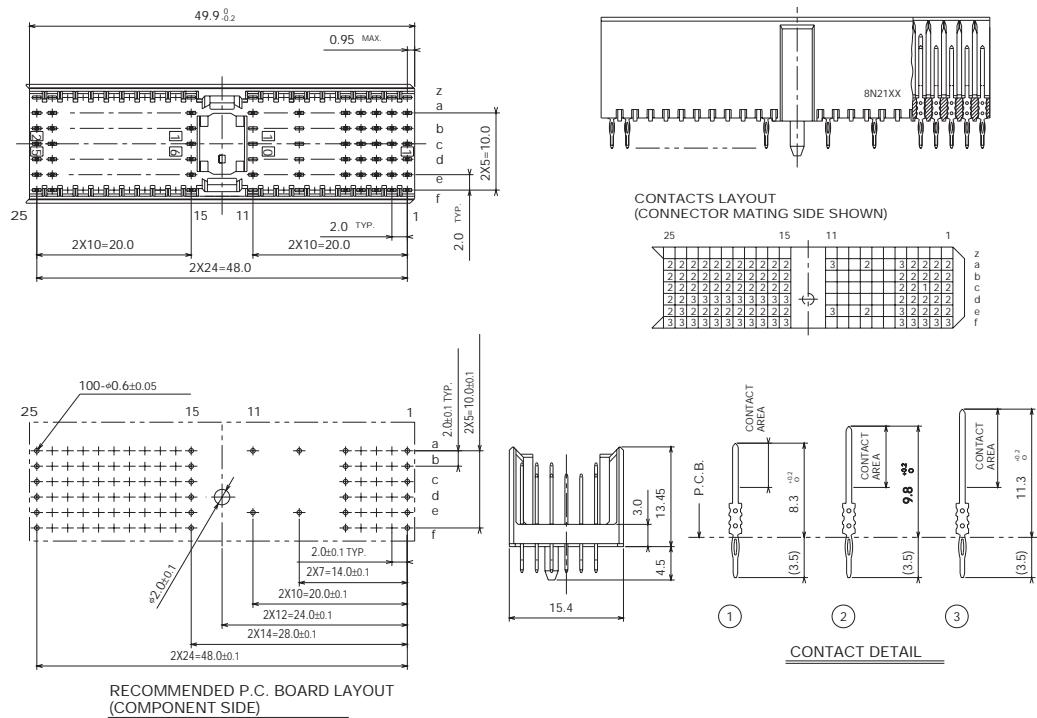
2mm Hard Metric Connectors



Series 8071 Type A Vertical Male Feed-To

17 8071 100 511 833 = P4 Type A 84 signal contacts and 16 ground contacts, Short Tail (Computer Telephony)

Contact Elco for availability of alternate platings

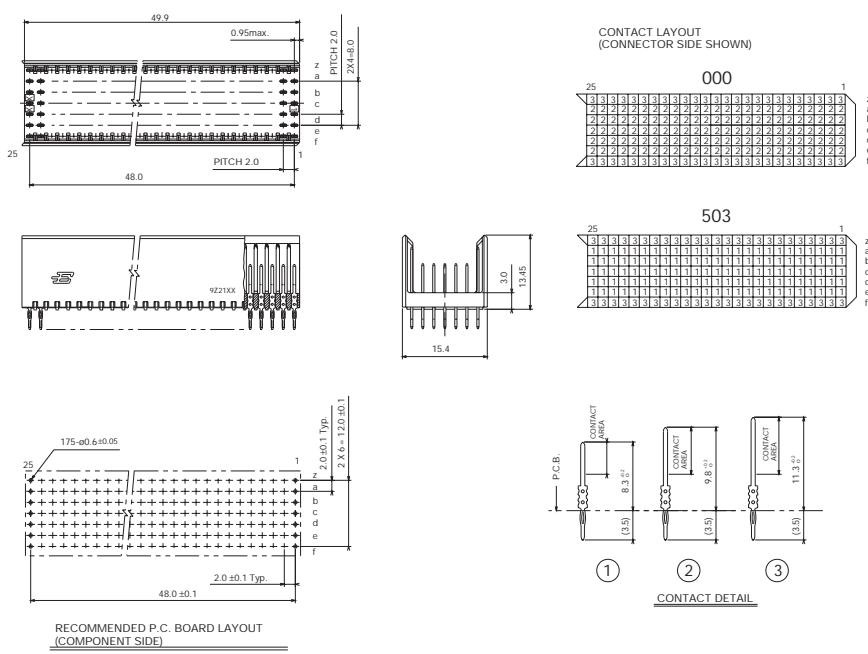


Series 8071 Type B Vertical Male Feed-To

17 8071 175 000 833 = 125 signal contacts and 50 ground contacts, Short Tail L2,3 cPCI

17 8071 175 503 833 = 125 signal contacts and 50 ground contacts, Short Tail L1,3 cPCI

Contact Elco for availability of alternate platings



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #170. Visit our website <http://www.avxcorp.com>

2mm Hard Metric Connectors

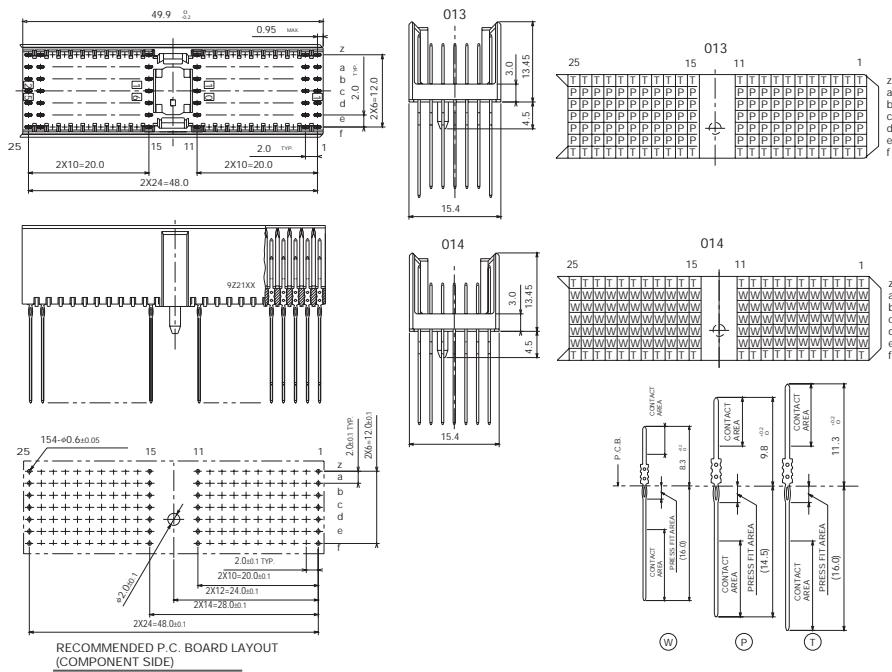


Series 8071 Type A Vertical Male Feed-Thru

17 8071 154 013 515 = P4 110 signal contacts and 44 ground contacts, Long Tail, L2,3 cPCI

17 8071 154 014 515 = P4 110 signal contacts and 44 ground contacts, Long Tail, L1,3 cPCI

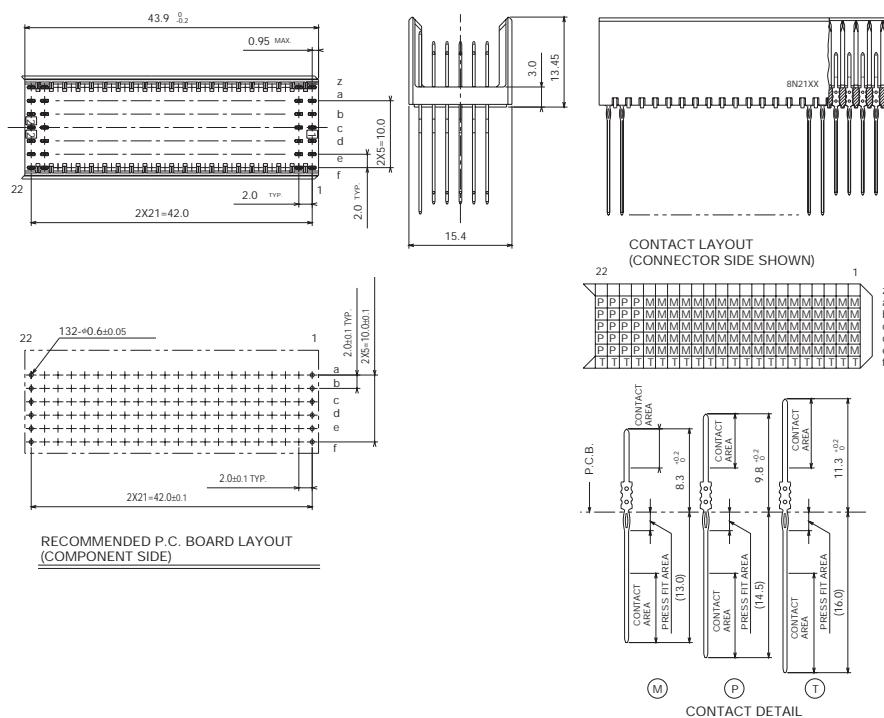
Contact Elco for availability of alternate platings



Series 8071 Type B Vertical Male Feed-Thru

17 8071 132 016 515 = P5 110 signal contacts and 22 ground contacts, Long Tail (Computer Telephony)

Contact Elco for availability of alternate platings



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #171. Visit our website <http://www.avxcorp.com>

2mm Hard Metric Connectors



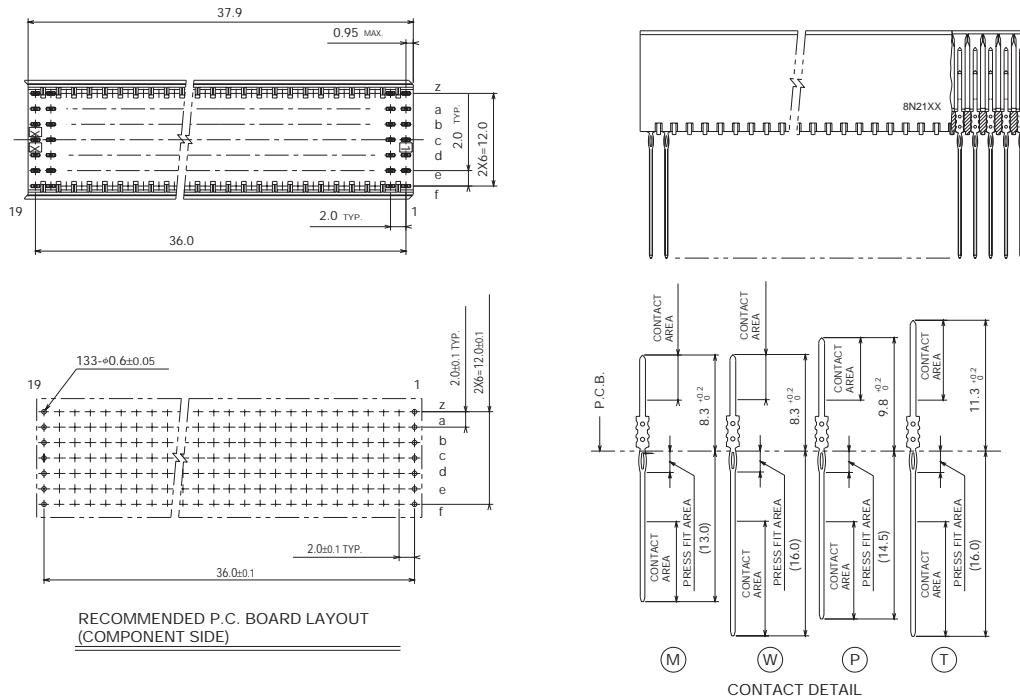
Series 8071 Type B Vertical Male Feed-Thru

17 8071 133 003 515 = P3 95 signal contacts and 38 ground contacts, Long Tail Std L2,3 cPCI

17 8071 133 004 515 = P3 95 signal contacts and 38 ground contacts, Long Tail Std L1,3 cPCI

17 8071 133 015 515 = P3 95 signal contacts and 38 ground contacts, Long Tail Std L1,3 cPCI

Contact Elco for availability of alternate platings



Variation Code	Side View	Pin Loading
003 Long Tail, Std. L2, 3 P3	<p>Side view diagram for Variation 003. Dimensions: total width 37.9, height 19, contact pitch 2.0 TYP. Contact height: 13.45. Pin height: 15.4.</p>	<p>Pin loading diagram for Variation 003. The matrix shows signal contacts (T) and ground contacts (P). The matrix is 19 rows by 1 column. Column headers: 19, 1. Row headers: z, a, b, c, d, e, f.</p>
004 Long Tail, Std. L1, 3 P3	<p>Side view diagram for Variation 004. Dimensions: total width 37.9, height 19, contact pitch 2.0 TYP. Contact height: 13.45. Pin height: 15.4.</p>	<p>Pin loading diagram for Variation 004. The matrix shows signal contacts (T) and ground contacts (M). The matrix is 19 rows by 1 column. Column headers: 19, 1. Row headers: z, a, b, c, d, e, f.</p>
015 Long Tail, Std. L1, 3 P3	<p>Side view diagram for Variation 015. Dimensions: total width 37.9, height 19, contact pitch 2.0 TYP. Contact height: 13.45. Pin height: 15.4.</p>	<p>Pin loading diagram for Variation 015. The matrix shows signal contacts (T) and ground contacts (W). The matrix is 19 rows by 1 column. Column headers: 19, 1. Row headers: z, a, b, c, d, e, f.</p>

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #172. Visit our website <http://www.avxcorp.com>

2mm Hard Metric Connectors



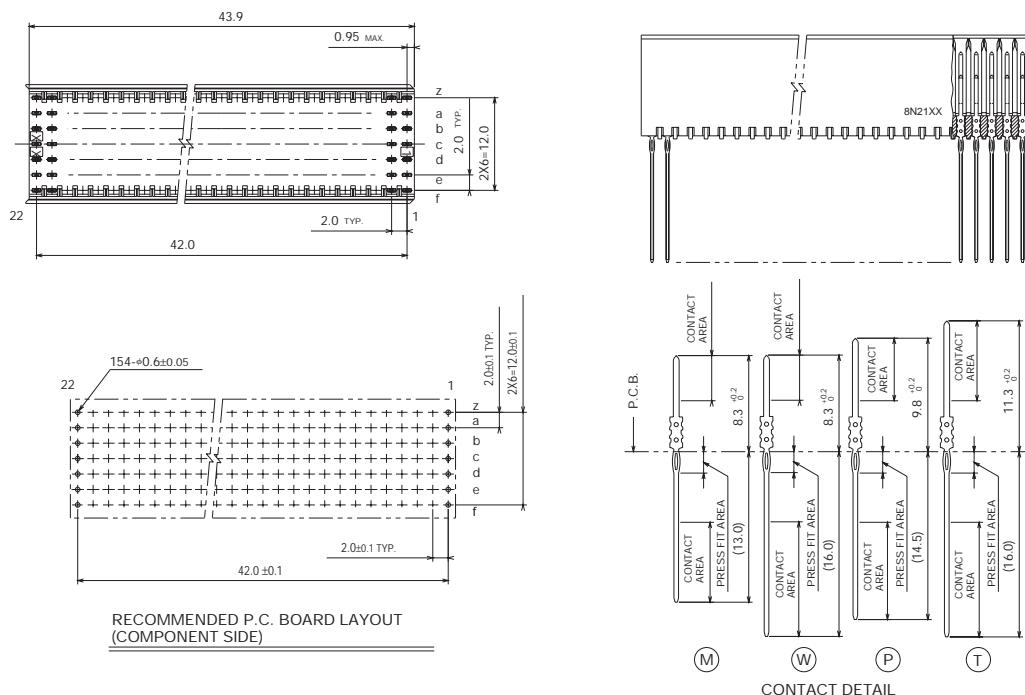
Series 8071 Type B Vertical Male Feed-Thru

17 8071 154 003 515 = P2/P5 110 signal contacts and 44 ground contacts, Long Tail Std L2,3 cPCI

17 8071 154 004 515 = P2/P5 110 signal contacts and 44 ground contacts, Long Tail Std L1,3 cPCI

17 8071 154 015 515 = P2/P5 110 signal contacts and 44 ground contacts, Long Tail Std L1,3 cPCI

Contact Elco for availability of alternate platings



Variation Code	Side View	Pin Loading
003 Long Tail, Std. L2, 3 P2/P5	<p>Technical drawing showing the side profile of the variation 003 connector. The height is 15.4 mm, and the distance from the bottom of the pins to the top of the contacts is 13.45 mm.</p>	<p>Pin loading diagram for variation 003. The diagram shows a grid of 110 signal contacts (T) and 44 ground contacts (M). The contacts are arranged in 11 columns of 10 contacts each. The total height of the pins is 16.0 mm. The contacts are labeled z, a, b, c, d, e, f along the right edge.</p>
004 Long Tail, Std. L1, 3 P2/P5	<p>Technical drawing showing the side profile of the variation 004 connector. The height is 15.4 mm, and the distance from the bottom of the pins to the top of the contacts is 13.45 mm.</p>	<p>Pin loading diagram for variation 004. The diagram shows a grid of 110 signal contacts (T) and 44 ground contacts (M). The contacts are arranged in 11 columns of 10 contacts each. The total height of the pins is 16.0 mm. The contacts are labeled z, a, b, c, d, e, f along the right edge.</p>
015 Long Tail, Std. L1, 3 P2/P5	<p>Technical drawing showing the side profile of the variation 015 connector. The height is 15.4 mm, and the distance from the bottom of the pins to the top of the contacts is 13.45 mm.</p>	<p>Pin loading diagram for variation 015. The diagram shows a grid of 110 signal contacts (T) and 44 ground contacts (W). The contacts are arranged in 11 columns of 10 contacts each. The total height of the pins is 16.0 mm. The contacts are labeled z, a, b, c, d, e, f along the right edge.</p>

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #173. Visit our website <http://www.avxcorp.com>

2mm Hard Metric Connectors

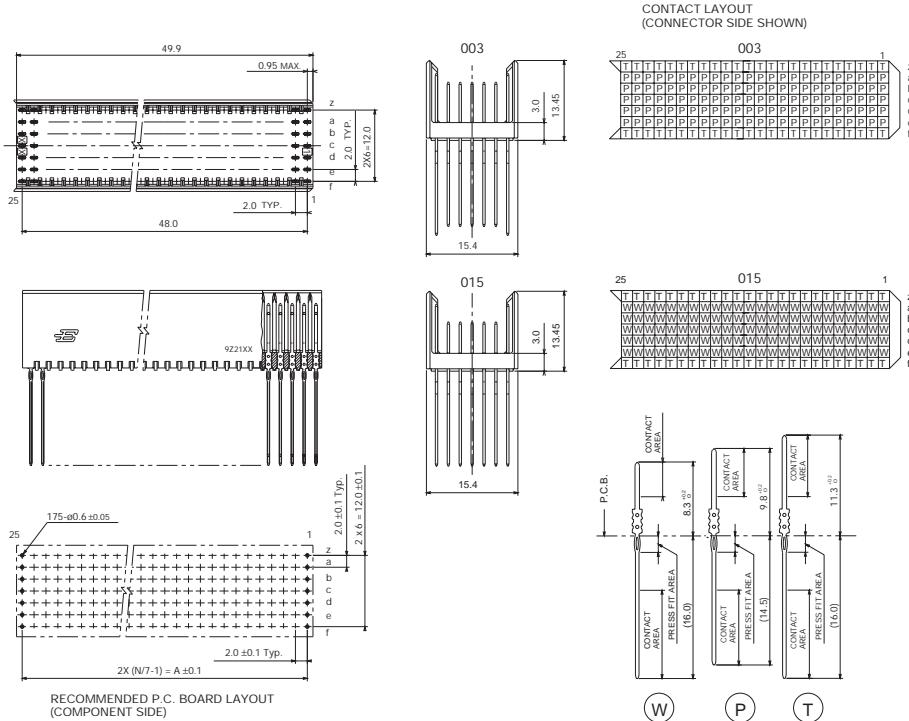


Series 8071 Type B Vertical Male Feed-Thru

17 8071 175 003 515 = 125 signal contacts and 50 ground contacts, Long Tail L2,3 cPCI

17 8071 175 015 515 = 125 signal contacts and 50 ground contacts, Long Tail L1,3 cPCI

Contact Elco for availability of alternate platings

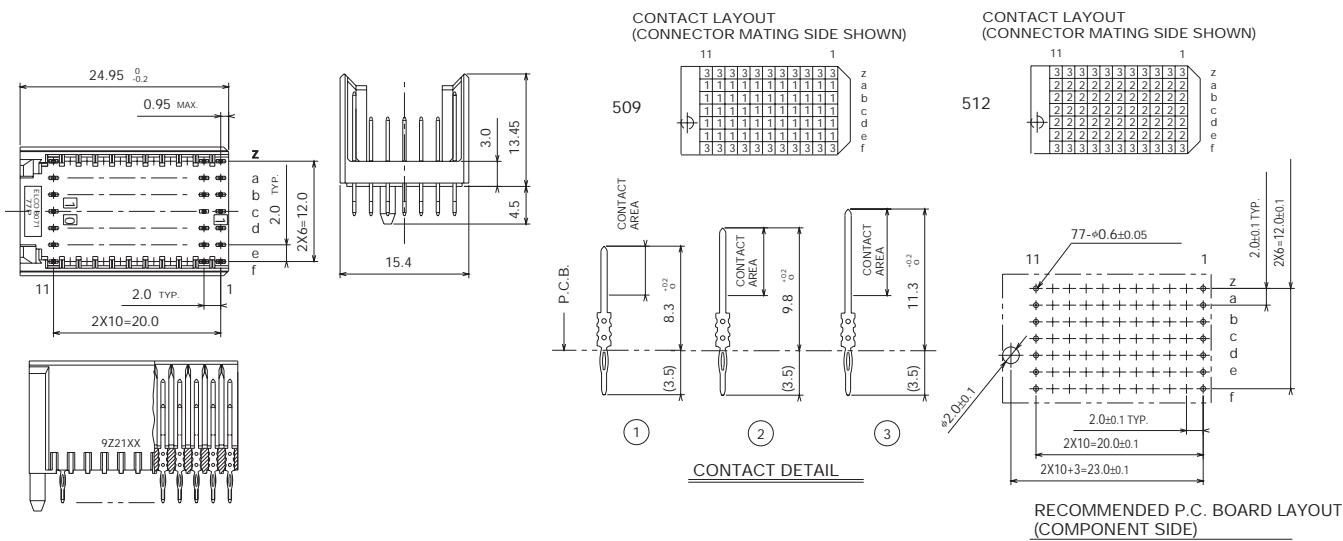


Series 8071 Type C Vertical Male Feed-To

17 8071 077 509 833 = 55 signal contacts and 22 ground contacts, Short Tail, L1,3

17 8071 077 512 833 = 55 signal contacts and 22 ground contacts, Short Tail, L2,3

Contact Elco for availability of alternate platings



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #174. Visit our website <http://www.avxcorp.com>

ELCO

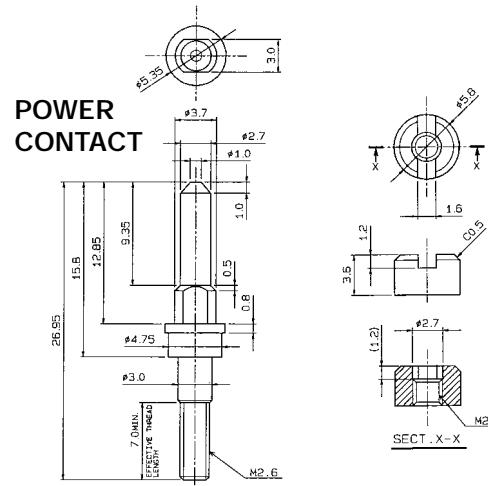
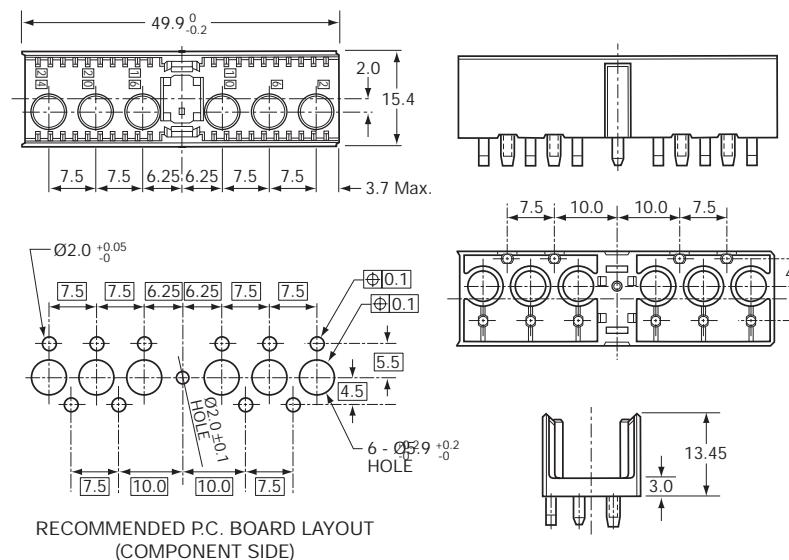
2mm Hard Metric Connectors



Series 8074 Type L Vertical Male Feed-To

61 8074 006 001 007 = Type L 6 position power connector with polarizing key, (housing only)

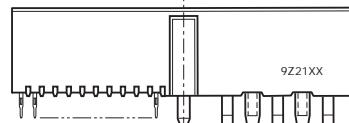
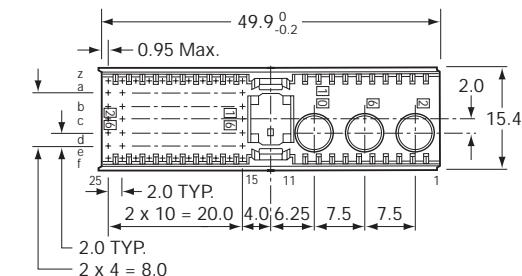
Power Contact: P/N 71 8074 000 501 ordered separately



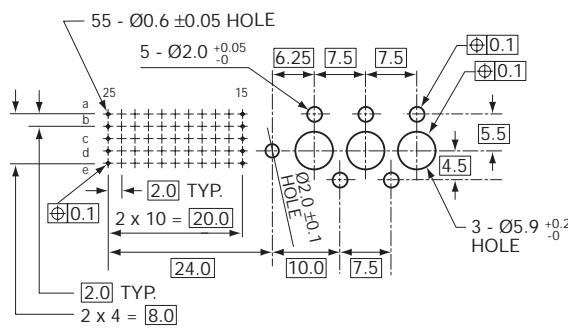
Series 8075 Type M Vertical Male Feed-To

17 8075 355 501 833 = Type M 3 position power connector with polarizing key, with 55 signal contacts

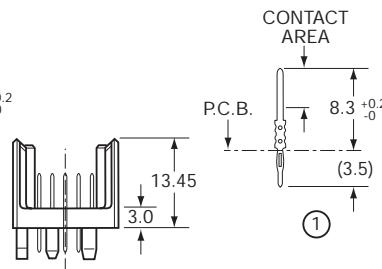
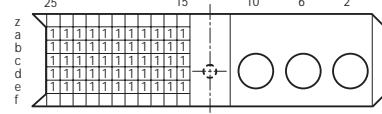
Contact Elco for availability of alternate platings



CONTACT LAYOUT
(CONNECTOR MATING SIDE SHOWN)



RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #175. Visit our website <http://www.avxcorp.com>

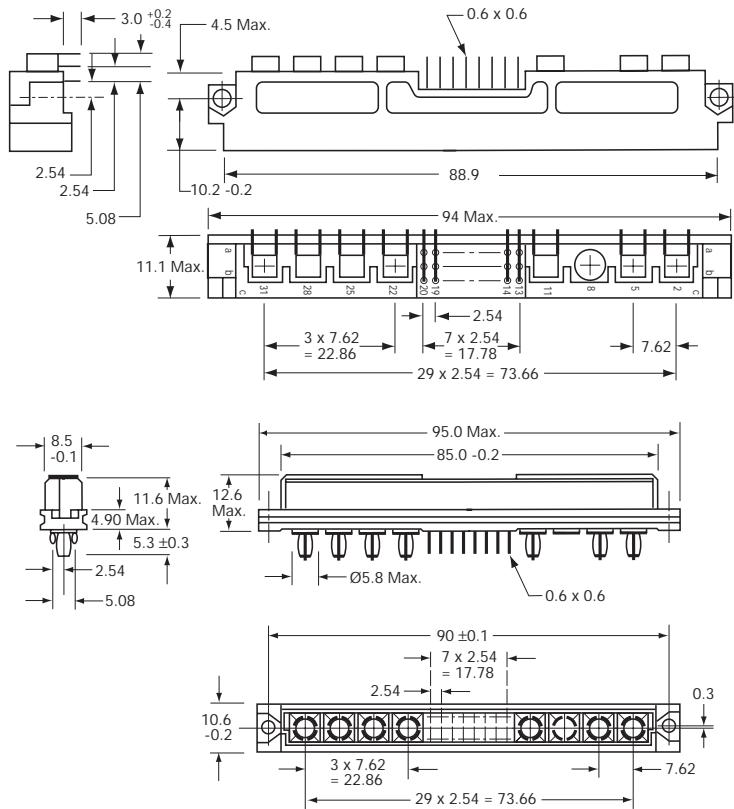
2mm Hard Metric Connectors



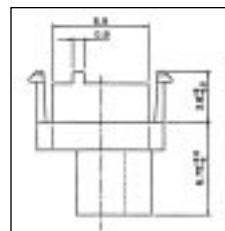
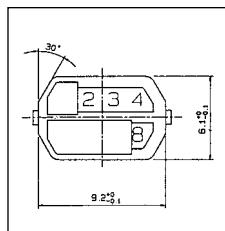
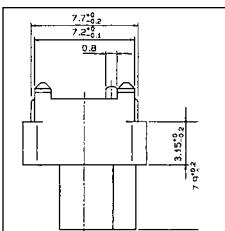
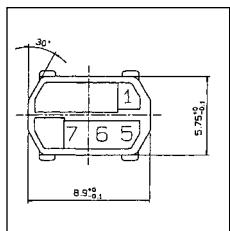
Series 8483/8485 Style M DIN EuroCard Power Connector

59 8483 024 000 025 = Male, Right Angle, 7 Power and 24 Signal Contacts

59 8485 024 000 015 = Female, Vertical, 7 Power and 24 Signal Contacts



Series 8071 Coding Keys: Type A Male Type A Female



Male

101 003	102 006	103 008	104 002
Cadmium Yellow 	Brilliant Blue 	Pastel Orange 	Strawberry Red

Female

101 003	102 006	103 008	104 002
Cadmium Yellow 	Brilliant Blue 	Pastel Orange 	Strawberry Red

Color	Rail Number	Code No.	Key Part Number	Plug/Receptacle
Cadmium Yellow	1021	3456	81 8071 000 101003	Plug 3.3V C-PCI
Brilliant Blue	5007	1567	81 8071 000 102006	Plug 5.0V C-PCI
Pastel Orange	2003	3568	81 8071 000 103008	Plug
Strawberry Red	3018	1248	81 8071 000 104002	Plug
Cadmium Yellow	1021	1278	82 8071 000 101003	Receptacle 3.3V C-PCI
Brilliant Blue	5007	2348	82 8071 000 102006	Receptacle 5.0V C-PCI
Pastel Orange	2003	1247	82 8071 000 103008	Receptacle
Strawberry Red	3018	3567	82 8071 000 104002	Receptacle

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #176. Visit our website <http://www.avxcorp.com>

ELCO

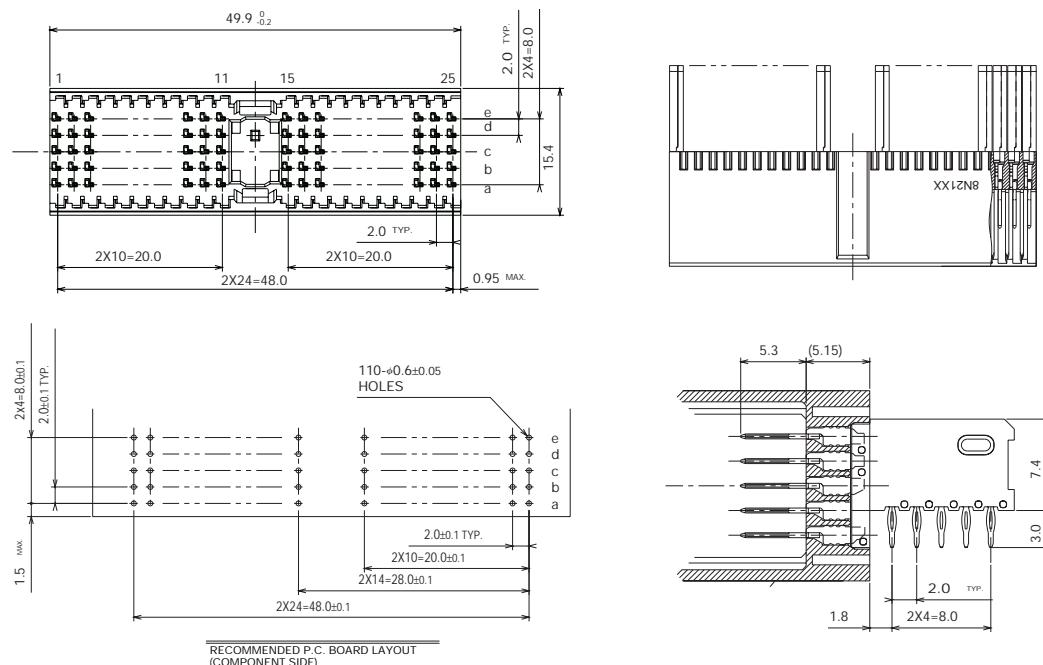
2mm Hard Metric Connectors



Series 8072 Type A Right Angle Male

17 8072 110 001 833 = Type A Right Angle Male

Contact Elco for availability of alternate platings



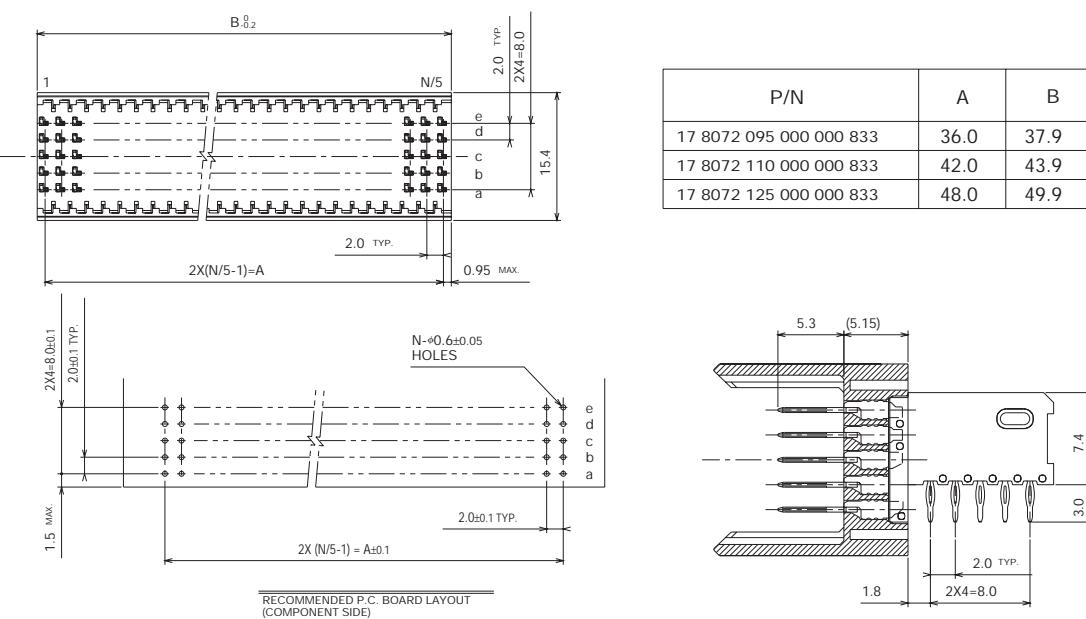
Series 8072 Type B Right Angle Male

17 8072 095 000 833 = Type B Right Angle Male, 5x19 Positions

17 8072 110 000 833 = Type B Right Angle Male, 5x22 Positions

17 8072 125 000 833 = Type B Right Angle Male, 5x25 Positions

Contact Elco for availability of alternate platings



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #177. Visit our website <http://www.avxcorp.com>

2mm Hard Metric Connectors



Series 8071 RP4 Shroud, Type A & C

61 8071 154 301 007 = RP4 Type A 154 cavities (22 position) L = 3.0, H = 13.45, PCB Thickness: 4.8mm

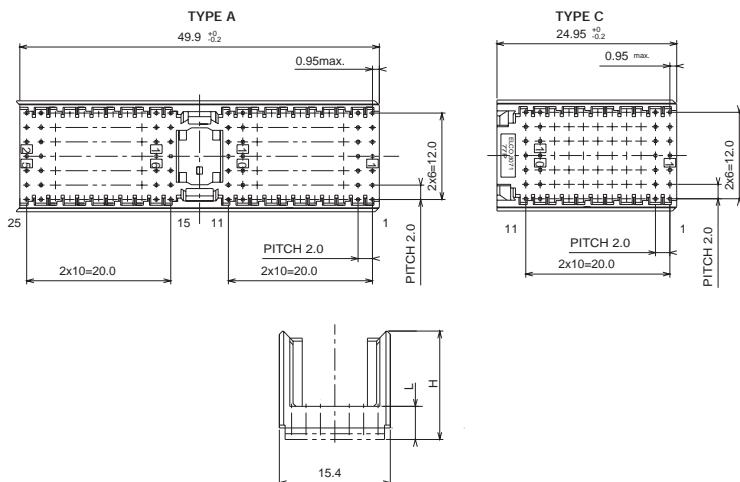
61 8071 154 311 007 = RP4 Type A 154 cavities (22 position) L = 3.8, H = 14.25, PCB Thickness: 4.0mm

61 8071 154 321 007 = RP4 Type A 154 cavities (22 position) L = 4.6, H = 15.05, PCB Thickness: 3.2mm

61 8071 077 301 007 = Type C 77 cavities (11 position) L = 3.0, H = 13.45, PCB Thickness: 4.8mm

61 8071 077 311 007 = Type C 77 cavities (11 position) L = 3.8, H = 14.25, PCB Thickness: 4.0mm

61 8071 077 321 007 = Type C 77 cavities (11 position) L = 4.6, H = 15.05, PCB Thickness: 3.2mm



Series 8071 RP2, 3, 5 Shroud, Type B

61 8071 133 300 007 = RP3 Type B 133 cavities (19 position) L = 3.0, H = 13.45, PCB Thickness: 4.8mm

61 8071 133 310 007 = RP3 Type B 133 cavities (19 position) L = 3.8, H = 14.25, PCB Thickness: 4.0mm

61 8071 133 320 007 = RP3 Type B 133 cavities (19 position) L = 4.6, H = 15.05, PCB Thickness: 3.2mm

61 8071 154 300 007 = RP2, 5 Type B 154 cavities (22 position) L = 3.0, H = 13.45, PCB Thickness: 4.8mm

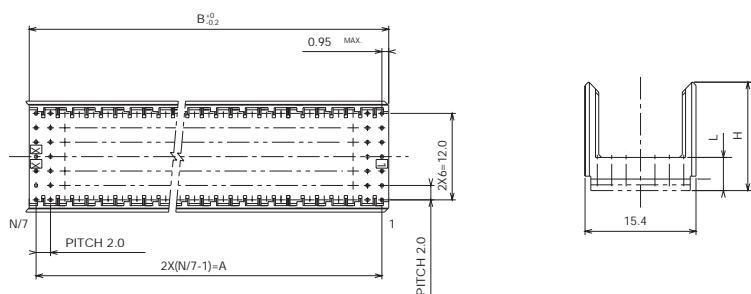
61 8071 154 310 007 = RP2, 5 Type B 154 cavities (22 position) L = 3.8, H = 14.25, PCB Thickness: 4.0mm

61 8071 154 320 007 = RP2, 5 Type B 154 cavities (22 position) L = 4.6, H = 15.05, PCB Thickness: 3.2mm

61 8071 175 300 007 = Type B 175 cavities (25 position) L = 3.0, H = 13.45, PCB Thickness: 4.8mm

61 8071 175 310 007 = Type B 175 cavities (25 position) L = 3.8, H = 14.25, PCB Thickness: 4.0mm

61 8071 175 320 007 = Type B 175 cavities (25 position) L = 4.6, H = 15.05, PCB Thickness: 3.2mm



P/N	A	B	# OF POSITIONS
61 8071 133 XXX 007	36.0	37.9	19
61 8071 154 XXX 007	42.0	43.9	22
61 8071 175 XXX 007	48.0	49.9	25

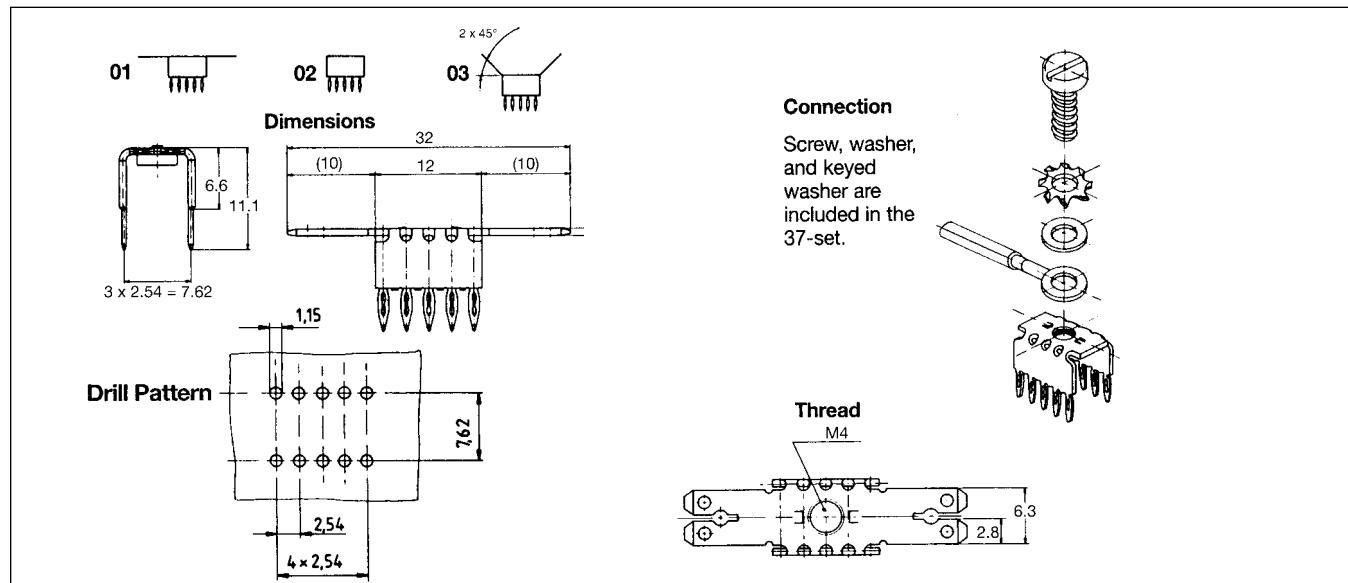
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #178. Visit our website <http://www.avxcorp.com>

2mm Hard Metric Connectors



Series 2525 Power Pack Connectors

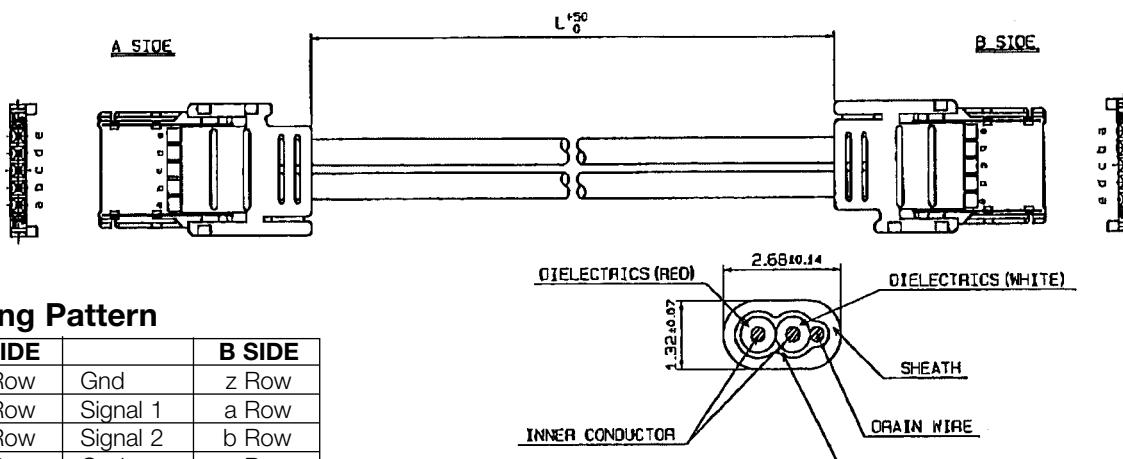
- 37 2525 0213 01 050** = M 4 thread, with flat tabs, with hardware
37 2525 0213 02 050 = M 4 thread, without tabs, with hardware
37 2525 0213 03 050 = M 4 thread, with 45 degree tabs
67 2525 0213 01 489 = M 4 thread, with flat tabs, without hardware
67 2525 0213 02 489 = M 4 thread, without tabs, without hardware
67 2525 0213 03 489 = M 4 thread, with 45 degree tabs



Series 8073 5 Position Modular Input/Output Cable

- 97 8073 002 050 870** = 5 position cable assembly, double ended, 500mm long
97 8073 002 100 870 = 5 position cable assembly, double ended, 1000mm long
97 8073 002 150 870 = 5 position cable assembly, double ended, 1500mm long
97 8073 002 200 870 = 5 position cable assembly, double ended, 2000mm long
97 8073 002 250 870 = 5 position cable assembly, double ended, 2500mm long

Contact Elco for availability of alternate lengths



Wiring Pattern

A SIDE		B SIDE
z Row	Gnd	z Row
a Row	Signal 1	a Row
b Row	Signal 2	b Row
c Row	Gnd	c Row
d Row	Signal 3	d Row
e Row	Signal 4	e Row
f Row	Gnd	f Row

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #179. Visit our website <http://www.avxcorp.com>

2mm Hard Metric Connectors

Application and Installation Tooling



MALE CONNECTORS	POSITIONS	LENGTH	PART #
Type A male	22	49.9mm	66 3015 344 000 000
Type B male	19	37.9mm	66 3015 347 000 000
Type B male	22	43.9mm	66 3015 346 000 000
Type B male	25	49.9mm	66 3015 345 000 000
Type C male	11	22.3mm	66 3015 348 000 000
FEMALE CONNECTORS (With Upper Shield)			
Type A female	22	49.9mm	
Type B female	19	37.9mm	
Type B female	22	43.9mm	
Type B female	25	49.9mm	
Type C female	11		
BASE BLOCK	All		66 3015 349 000 000
PRESS FIT MACHINE	Daughter		36 1004 028 000 000
HAND PRESS			36 1004 030 000 000
PLUG PRESS	Backplane		36 1004 029 000 000
RECEPTACLE REPAIR JIG			06 1002 063 000 000
INSTALLATION TOOL FOR CODING KEYS			06 1002 066 000 000

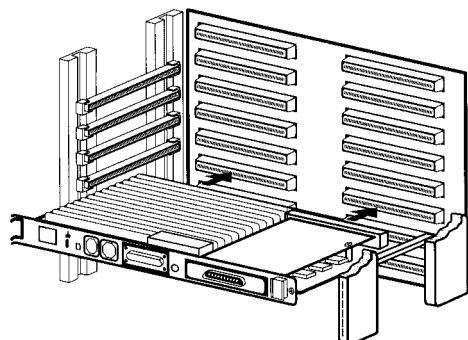
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #180. Visit our website <http://www.avxcorp.com>

ELCO

PCI Mezzanine Card Connector System



Series 5015 - CMC and PMC Stacking - 1.0mm Pitch - 64 Pin



Technical Specifications

Voltage Rating	250V
Current Rating	1.0A
Insulation Resistance	1G Ohm min.
Operating Temperature	-55°C to 85°C
Insulation Material	LCP GF UL94V-0
Contact Material	Phosphor bronze, Gold mating area, Tin lead tail
Mating Cycles	100 cycle
Mating Force	4.0Kg Max
Unmating Force	1.5Kg Max

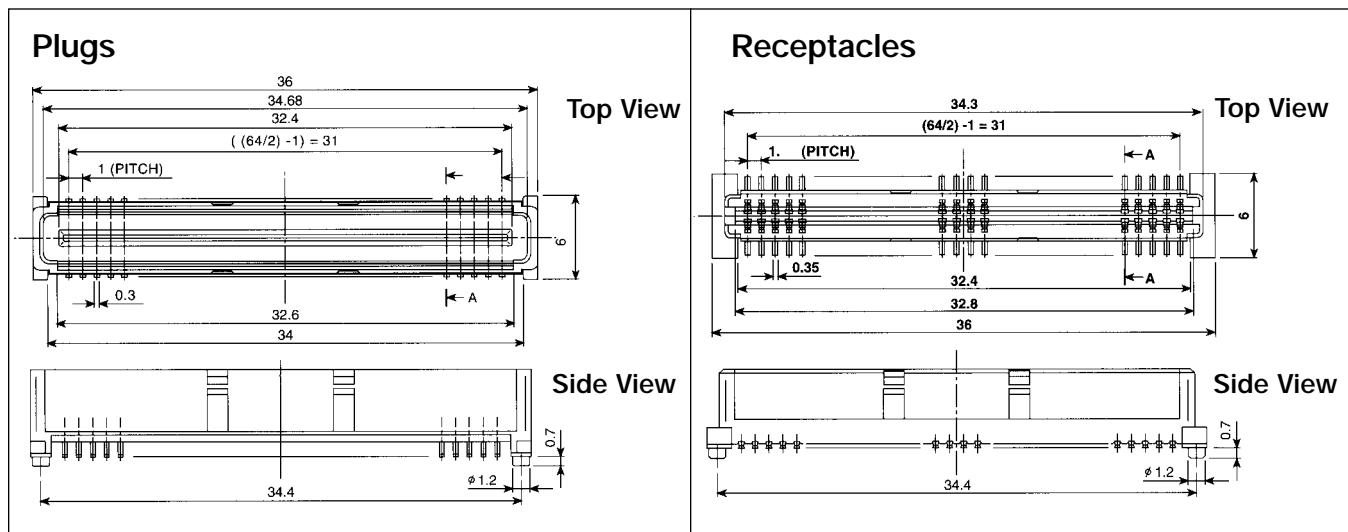
Ordering Code

Height	Plug	Receptacle
8mm	14 5015 064 X00 863	24 5015 064 X00 863
9mm	14 5015 064 X01 863	24 5015 064 X00 863
10mm	14 5015 064 X02 863	24 5015 064 X00 863
11mm	14 5015 064 X01 863	24 5015 064 X02 863
12mm	14 5015 064 X02 863	24 5015 064 X02 863
13mm	14 5015 064 X02 863	24 5015 064 X03 863
14mm	14 5015 064 X01 863	24 5015 064 X05 863
15mm	14 5015 064 X02 863	24 5015 064 X05 863

8mm, 10mm, 13mm, and 15mm parts are available. Consult the factory for other stack heights.

X: 0-Without Boss

1-With Boss



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #181. Visit our website <http://www.avxcorp.com>

Elco Quick Reference Guide DIN 41612



Style	Male / Female	Pitch (mm)	Termination Style								Maximum number of contact positions	No. of rows	Current	Notes
			IDC	Crimp	Coax	High Power Solder	Hand Solder	Wire Wrap	Screwed	Right Angle				
B M	8457	2.54	X						X	X	32 (1/2)B, 64 (B)	2	1.5	
B F	8457	2.54	X						X	X	32 (1/2)B, 64 (B)	2	1.5	
B M	8458	2.54	X						X	X	32 (1/2)B, 64 (B)	2	1.5	
B F	8458	2.54	X						X	X	30 (1/2)C, 48 (1/2)C, 96 (C), 128, 160 (Expanded C)	3, 4, 5	1.5	
C M	8457	2.54	X						X	X	30 (1/2)C, 48 (1/2)C, 96 (C), 128, 160 (Expanded C)	3, 4, 5	1.5	
C F	8457	2.54	X						X	X	30 (1/2)C, 48 (1/2)C, 96 (C), 128, 160 (Expanded C)	3, 4, 5	1.5	
C M	8458	2.54	X						X	X	30 (1/2)C, 48 (1/2)C, 96 (C), 128, 160 (Expanded C)	3, 4, 5	1.5	
C F	8458	2.54	X						X	X	30 (1/2)C, 48 (1/2)C, 96 (C), 128, 160 (Expanded C)	3, 4, 5	1.5	
Q M	8477	2.54	X						X	X	32 (1/2)Q, 64 (Q)	2	1.5	
Q F	8477	2.54	X						X	X	32 (1/2)Q, 64 (Q)	2	1.5	
Q M	8478	2.54	X						X	X	32 (1/2)Q, 64 (Q)	2	1.5	
Q F	8478	2.54	X						X	X	30 (1/2)Q, 48 (1/2)Q, 96 (Q)	2	1.5	
R M	8477	2.54	X						X	X	30 (1/2)R, 48 (1/2)R, 96 (R), 150, 128, 160 (Expanded R)	3, 4, 5	1.5	
R F	8477	2.54	X						X	X	48 (1/2)R, 96 (R), 128, 160 (Expanded R)	3, 4, 5	1.5	
R M	8478	2.54	X						X	X	48 (1/2)R, 96 (R)	3, 4, 5	1.5	
R F	8478	2.54	X						X	X	48 (1/2)R, 96 (R)	3, 4, 5	1.5	
C M	8557	2.54	X						X	X	48 (1/2)C, 96 (C)	3	1.5	High temperature material (250 - 15 seconds) for IR reflow solder
C F	8557	2.54	X						X	X	48 (1/2)C, 96 (C)	3	1.5	High temperature material (250 - 15 seconds) for IR reflow solder
R M	8577	2.54	X						X	X	48 (1/2)C, 96 (R)	3	1.5	High temperature material (250 - 15 seconds) for IR reflow solder
R F	8577	2.54	X						X	X	48 (1/2)C, 96 (R), 128 (Expanded R)	3, 4	1.5	High temperature material (250 - 15 seconds) for IR reflow solder
C F	8459	2.54	X						X	X	48 (1/2)C, 96 (C)	3	1.5	3 row insulator, 2 rows loaded, 2 x 16.7 x 32 AWG 26 / 28 cable size AWG 24 - 28
C F	8464	2.54	X						X	X	96 (1/2)C, 96 (C)	3	1.5	Only row A and C can be loaded with contacts
R M	8442	2.54	X						X	X	96 (R), 128 (Expanded R)	3, 4	-	
R F	8254	2.54	X						X	X	96 (R), 128 (Expanded R)	2	5.5	
D M	8447	5.08	X						X	X	32	2	5.5	
E M	8447	5.08	X						X	X	48	3	5.5	Pressfit for internal backpanel assembly available
D F	8447	5.08	X						X	X	32	2	5.5	Pressfit for internal backpanel assembly available
E F	8447	5.08	X						X	X	48	3	5.5	Pressfit for internal backpanel assembly available
F M	8487	5.08	X						X	X	48	3	5.5	Pressfit for internal backpanel assembly available
G M	8487	5.08	X						X	X	64	4	5.5	Pressfit for internal backpanel assembly available
F F	8487	5.08	X						X	X	48	3	5.5	Pressfit for internal backpanel assembly available
G F	8487	5.08	X						X	X	64	4	5.5	Pressfit for internal backpanel assembly available
M M	8483	2.54	X						X	X	6, 24, 42, 60, 78 (Signal Contacts)	3	1.5	No of cavities for special contacts 10, 8, 6, 4, 2
M M	8483	2.54	X						X	X	6, 24, 42, 60, 78 (Signal Contacts)	3	1.5	No of cavities for special contacts 10, 8, 6, 4, 2
M F	8484	2.54	X						X	X	6, 24, 42, 60, 78 (Signal Contacts)	3	1.5	No of cavities for special contacts 10, 8, 6, 4, 2
M M	8483	2.54	X						X	X	12, 30	3	1.5	No of cavities for special contacts 4, 2
M M	8484	2.54	X						X	X	12, 30 (1/2)M	3	1.5	No of cavities for special contacts 4, 2
M F	8484	2.54	X						X	X	12, 30 (1/2)M	3	1.5	No of cavities for special contacts 4, 2
M M	8489	N/A	X						X	X	N/A	N/A	40	Special contacts Style M, see catalog
H M	8485	N/A	X						X	X	N/A	N/A	40	High power press-fit contact Style M
H F	8450	7.62	X						X	X	11	1	20	
H M	8456	5.08	X						X	X	15	2	15	
H F	8453	5.08	X						X	X	15	2	15	Inverted press-fit H15 header
H F	8454	5.08	X						X	X	15	2	15	
H M	8449	5.08	X						X	X	10+2	2	15 (40)	Style H 10 + 2 receptacle with 2 special contacts
H F	8449	5.08	X						X	X	10+2	2	15 (40)	Style H 10 + 2 receptacle with 2 special contacts
F F	9075	2.54	X						X	X	78+6	3, 2	15 (5)	Hybrid connector 78 signal and 6 high power contacts
M M	9075	2.54	X						X	X	78+6	3, 2	15 (5)	Hybrid connector 78 signal and 6 high power contacts
R -	8521	-	-	-	-	-	-	-	-	-	-	3	-	Ejector latch
-	8254	-	-	-	-	-	-	-	-	-	-	-	-	Cover assembly for IDC and Crimp connector
-	8404	-	-	-	-	-	-	-	-	-	-	-	-	Cover assembly for IDC and Crimp connector

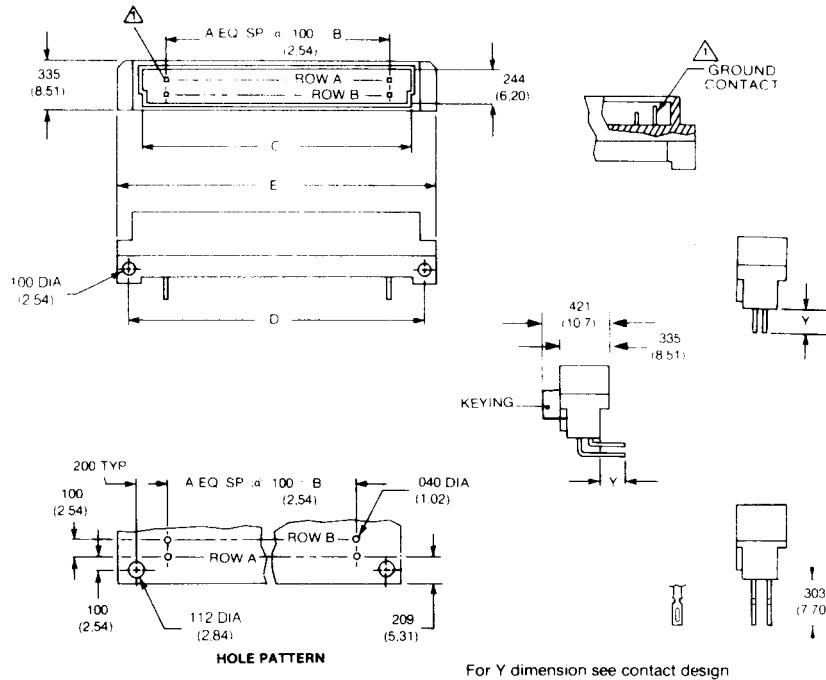
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DIN 41612 Connectors



Series 8457 - Male Style ½ B - 2 Rows (2 x 16) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
032	2 (2 x 16)	15	1.500 (38.10)	1.754 (44.55)	1.900 (48.26)	2.100 (53.34)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
3.4 mm (Y) Straight	32	a + b fully loaded	10 8457 032 001 001	10 8457 032 001 025	10 8457 032 001 049
	16	a + b even loading	10 8457 032 001 007	10 8457 032 001 031	10 8457 032 001 055
	16	a loading only	10 8457 032 001 003	10 8457 032 001 027	10 8457 032 001 051
3.0 mm (Y) Right Angled	32	a + b fully loaded	10 8457 032 002 001	10 8457 032 002 025	10 8457 032 002 049
	16	a + b even loading	10 8457 032 002 007	10 8457 032 002 031	10 8457 032 002 055
	16	a loading only	10 8457 032 002 003	10 8457 032 002 027	10 8457 032 002 051
	30 + 2	fully loaded + ground	10 8457 032 102 001	10 8457 032 102 025	10 8457 032 102 049
13.0 mm (Y) Straight	32	a + b fully loaded	10 8457 032 003 001	10 8457 032 003 025	10 8457 032 003 049
	16	a + b even loading	10 8457 032 003 007	10 8457 032 003 031	10 8457 032 003 055
	16	a loading only	10 8457 032 003 003	10 8457 032 003 027	10 8457 032 003 051
11.3 mm (Y) Right Angled	32	a + b fully loaded	10 8457 032 004 001	10 8457 032 004 025	10 8457 032 004 049
	16	a + b even loading	10 8457 032 004 007	10 8457 032 004 031	10 8457 032 004 055
	16	a loading only	10 8457 032 004 003	10 8457 032 004 027	10 8457 032 004 051
7.7 mm (Y) Solder Hole	32	a + b fully loaded	10 8457 032 006 001	10 8457 032 006 025	10 8457 032 006 049
	16	a + b even loading	10 8457 032 006 007	10 8457 032 006 031	10 8457 032 006 055
	16	a loading only	10 8457 032 006 003	10 8457 032 006 027	10 8457 032 006 051
6.4 mm (Y) Solder Loop	32	a + b fully loaded	10 8457 032 007 001	10 8457 032 007 025	10 8457 032 007 049
	16	a + b even loading	10 8457 032 007 007	10 8457 032 007 031	10 8457 032 007 055
	16	a loading only	10 8457 032 007 003	10 8457 032 007 027	10 8457 032 007 051
2.3 mm (Y) Right Angled	32	a + b fully loaded	10 8457 032 008 001	10 8457 032 008 025	10 8457 032 008 049
	16	a + b even loading	10 8457 032 008 007	10 8457 032 008 031	10 8457 032 008 055
	16	a loading only	10 8457 032 008 003	10 8457 032 008 027	10 8457 032 008 051
	30 + 2	fully loaded + ground	10 8457 032 108 001	10 8457 032 108 025	10 8457 032 108 049

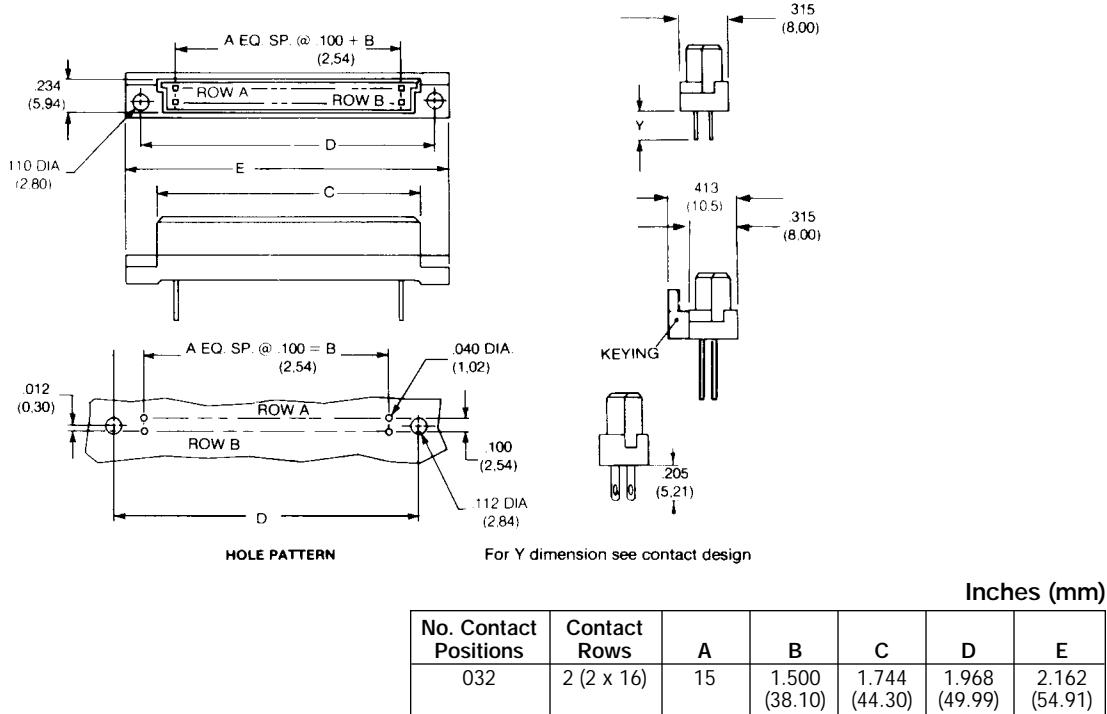
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DIN 41612 Connectors



Series 8457 - Female Style $\frac{1}{2}$ B - 2 Rows (2 x 16) - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm post profile 4.5 mm (Y) Straight	32	a + b fully loaded	20 8457 032 001 001	20 8457 032 001 025	20 8457 032 001 049
	16	a + b even loading	20 8457 032 001 007	20 8457 032 001 031	20 8457 032 001 055
	16	a loading only	20 8457 032 001 003	20 8457 032 001 027	20 8457 032 001 051
0.6 x 0.6 mm post profile 2.9 mm (Y) Straight	32	a + b fully loaded	20 8457 032 002 001	20 8457 032 002 025	20 8457 032 002 049
	16	a + b even loading	20 8457 032 002 007	20 8457 032 002 031	20 8457 032 002 055
	16	a loading only	20 8457 032 002 003	20 8457 032 002 027	20 8457 032 002 051
0.3 x 0.79 mm post profile 4.5 mm (Y) Straight	32	a + b fully loaded	20 8457 032 003 001	20 8457 032 003 025	20 8457 032 003 049
	16	a + b even loading	20 8457 032 003 007	20 8457 032 003 031	20 8457 032 003 055
	16	a loading only	20 8457 032 003 003	20 8457 032 003 027	20 8457 032 003 051
0.3 x 0.79 mm post profile 2.9 mm (Y) Straight	32	a + b fully loaded	20 8457 032 004 001	20 8457 032 004 025	20 8457 032 004 049
	16	a + b even loading	20 8457 032 004 007	20 8457 032 004 031	20 8457 032 004 055
	16	a loading only	20 8457 032 004 003	20 8457 032 004 027	20 8457 032 004 051
0.6 x 0.6 mm post profile 13.0 mm (Y) Straight	32	a + b fully loaded	20 8457 032 005 001	20 8457 032 005 025	20 8457 032 005 049
	16	a + b even loading	20 8457 032 005 007	20 8457 032 005 031	20 8457 032 005 055
	16	a loading only	20 8457 032 005 003	20 8457 032 005 027	20 8457 032 005 051
0.6 x 0.6 mm post profile 7.0 mm (Y) Straight	32	a + b fully loaded	20 8457 032 010 001	20 8457 032 010 025	20 8457 032 010 049
	16	a + b even loading	20 8457 032 010 007	20 8457 032 010 031	20 8457 032 010 055
	16	a loading only	20 8457 032 010 003	20 8457 032 010 027	20 8457 032 010 051
0.6 x 0.6 mm post profile 3.5 mm (Y) Straight	32	a + b even loading	20 8457 032 011 001	20 8457 032 011 025	20 8457 032 011 049
	16	a + b fully loaded	20 8457 032 011 007	20 8457 032 011 031	20 8457 032 011 055
	16	a loading only	20 8457 032 011 003	20 8457 032 011 027	20 8457 032 011 051
0.6 x 0.6 mm post profile 19.4 mm (Y) Straight	32	a + b fully loaded	20 8457 032 012 001	20 8457 032 012 025	20 8457 032 012 049
	16	a + b even loading	20 8457 032 012 007	20 8457 032 012 031	20 8457 032 012 055
	16	a loading only	20 8457 032 012 003	20 8457 032 012 027	20 8457 032 012 051
0.6 x 0.6 mm post profile 4.5 mm (Y) Right Angled	32	a + b fully loaded	20 8457 032 013 001	20 8457 032 013 025	20 8457 032 013 049
	16	a + b even loading	20 8457 032 013 007	20 8457 032 013 031	20 8457 032 013 055
	16	a loading only	20 8457 032 013 003	20 8457 032 013 027	20 8457 032 013 051

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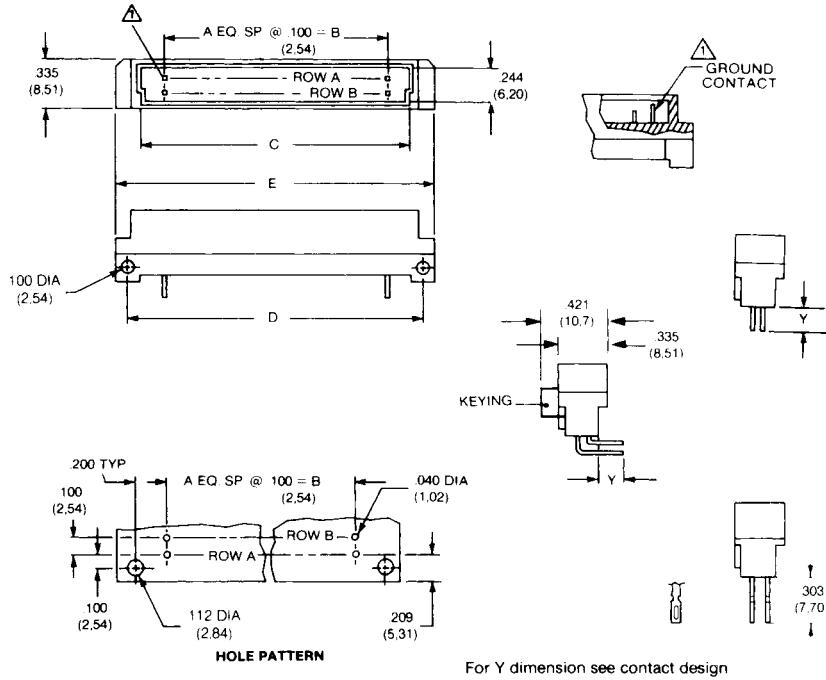
ELCO

DIN 41612 Connectors



Series 8457 - Male Style B - 2 Rows (2 x 32) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
064	2 (2 x 32)	31	3.100 (78.74)	3.354 (85.19)	3.500 (88.90)	3.700 (93.98)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
3.4 mm (Y) Straight	64	a + b fully loaded	10 8457 064 001 001	10 8457 064 001 025	10 8457 064 001 049
	32	a + b even loading	10 8457 064 001 007	10 8457 064 001 031	10 8457 064 001 055
	32	a loading only	10 8457 064 001 003	10 8457 064 001 027	10 8457 064 001 051
3.0 mm (Y) Right Angled	64	a + b fully loaded	10 8457 064 002 001	10 8457 064 002 025	10 8457 064 002 049
	32	a + b even loading	10 8457 064 002 007	10 8457 064 002 031	10 8457 064 002 055
	32	a loading only	10 8457 064 002 003	10 8457 064 002 027	10 8457 064 002 051
	62 + 2	fully loaded + ground	10 8457 064 102 001	10 8457 064 102 025	10 8457 064 102 049
13.0 mm (Y) Straight	64	a + b fully loaded	10 8457 064 003 001	10 8457 064 003 025	10 8457 064 003 049
	32	a + b even loading	10 8457 064 003 007	10 8457 064 003 031	10 8457 064 003 055
	32	a loading only	10 8457 064 003 003	10 8457 064 003 027	10 8457 064 003 051
11.3 mm (Y) Right Angled	64	a + b fully loaded	10 8457 064 004 001	10 8457 064 004 025	10 8457 064 004 049
	32	a + b even loading	10 8457 064 004 007	10 8457 064 004 031	10 8457 064 004 055
	32	a loading only	10 8457 064 004 003	10 8457 064 004 027	10 8457 064 004 051
7.7 mm (Y) Solder Hole	64	a + b fully loaded	10 8457 064 006 001	10 8457 064 006 025	10 8457 064 006 049
	32	a + b even loading	10 8457 064 006 007	10 8457 064 006 031	10 8457 064 006 055
	32	a loading only	10 8457 064 006 003	10 8457 064 006 027	10 8457 064 006 051
6.4 mm (Y) Solder Loop	64	a + b fully loaded	10 8457 064 007 001	10 8457 064 007 025	10 8457 064 007 049
	32	a + b even loading	10 8457 064 007 007	10 8457 064 007 031	10 8457 064 007 055
	32	a loading only	10 8457 064 007 003	10 8457 064 007 027	10 8457 064 007 051
2.3 mm (Y) Right Angled	64	a + b fully loaded	10 8457 064 008 001	10 8457 064 008 025	10 8457 064 008 049
	32	a + b even loading	10 8457 064 008 007	10 8457 064 008 031	10 8457 064 008 055
	32	a loading only	10 8457 064 008 003	10 8457 064 008 027	10 8457 064 008 051
	62 + 2	fully loaded + ground	10 8457 064 108 001	10 8457 064 108 025	10 8457 064 108 049

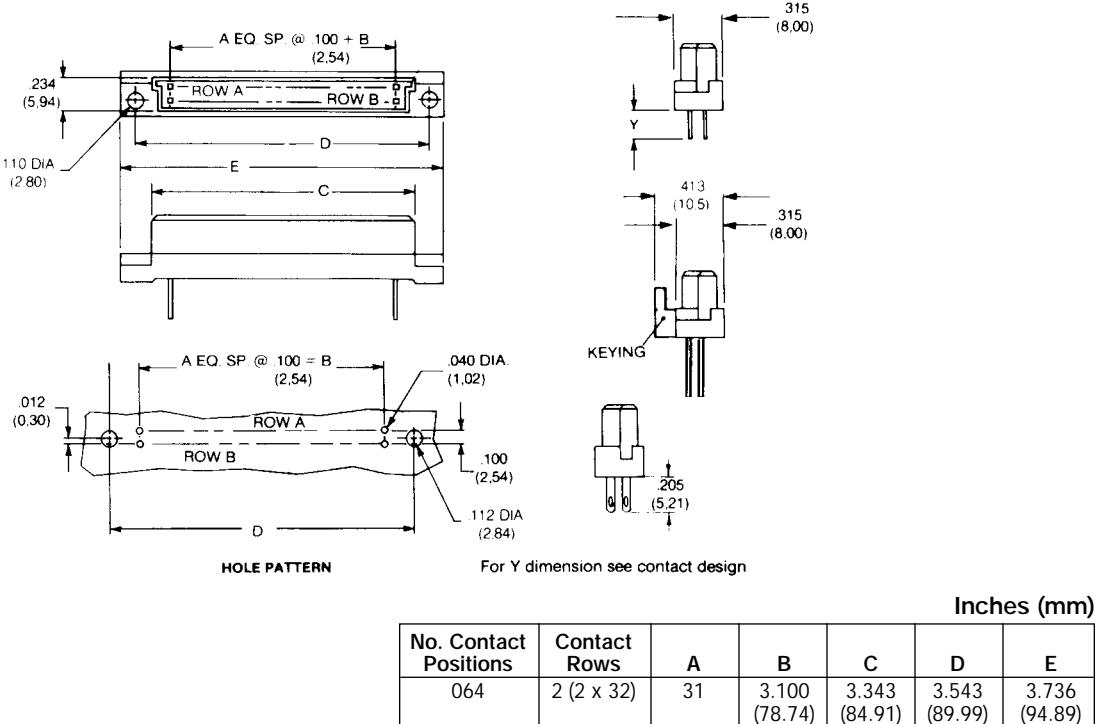
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DIN 41612 Connectors



Series 8457 - Female Style B - 2 Rows (2 x 32) - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Straight	64	a + b fully loaded	20 8457 064 001 001	20 8457 064 001 025	20 8457 064 001 049
	32	a + b even loading	20 8457 064 001 007	20 8457 064 001 031	20 8457 064 001 055
	32	a loading only	20 8457 064 001 003	20 8457 064 001 027	20 8457 064 001 051
0.6 x 0.6 mm Post Profile 2.9 mm (Y) Straight	64	a + b fully loaded	20 8457 064 002 001	20 8457 064 002 025	20 8457 064 002 049
	32	a + b even loading	20 8457 064 002 007	20 8457 064 002 031	20 8457 064 002 055
	32	a loading only	20 8457 064 002 003	20 8457 064 002 027	20 8457 064 002 051
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Straight	64	a + b fully loaded	20 8457 064 003 001	20 8457 064 003 025	20 8457 064 003 049
	32	a + b even loading	20 8457 064 003 007	20 8457 064 003 031	20 8457 064 003 055
	32	a loading only	20 8457 064 003 003	20 8457 064 003 027	20 8457 064 003 051
0.3 x 0.79 mm Post Profile 2.9 mm (Y) Straight	64	a + b fully loaded	20 8457 064 004 001	20 8457 064 004 025	20 8457 064 004 049
	32	a + b even loading	20 8457 064 004 007	20 8457 064 004 031	20 8457 064 004 055
	32	a loading only	20 8457 064 004 003	20 8457 064 004 027	20 8457 064 004 051
0.6 x 0.6 mm Post Profile 13.0 mm (Y) Straight	64	a + b fully loaded	20 8457 064 005 001	20 8457 064 005 025	20 8457 064 005 049
	32	a + b even loading	20 8457 064 005 007	20 8457 064 005 031	20 8457 064 005 055
	32	a loading only	20 8457 064 005 003	20 8457 064 005 027	20 8457 064 005 051
0.6 x 0.6 mm Post Profile 7.0 mm (Y) Straight	64	a + b fully loaded	20 8457 064 010 001	20 8457 064 010 025	20 8457 064 010 049
	32	a + b even loading	20 8457 064 010 007	20 8457 064 010 031	20 8457 064 010 055
	32	a loading only	20 8457 064 010 003	20 8457 064 010 027	20 8457 064 010 051
0.6 x 0.6 mm Post Profile 3.5 mm (Y) Straight	64	a + b fully loaded	20 8457 064 011 001	20 8457 064 011 025	20 8457 064 011 049
	32	a + b even loading	20 8457 064 011 007	20 8457 064 011 031	20 8457 064 011 055
	32	a loading only	20 8457 064 011 003	20 8457 064 011 027	20 8457 064 011 051
0.6 x 0.6 mm Post Profile 19.4 mm (Y) Straight	64	a + b fully loaded	20 8457 064 012 001	20 8457 064 012 025	20 8457 064 012 049
	32	a + b even loading	20 8457 064 012 007	20 8457 064 012 031	20 8457 064 012 055
	32	a loading only	20 8457 064 012 003	20 8457 064 012 027	20 8457 064 012 051
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Right Angled	64	a + b fully loaded	20 8457 064 013 001	20 8457 064 013 025	20 8457 064 013 049
	32	a + b even loading	20 8457 064 013 007	20 8457 064 013 031	20 8457 064 013 055
	32	a loading only	20 8457 064 013 003	20 8457 064 013 027	20 8457 064 013 051

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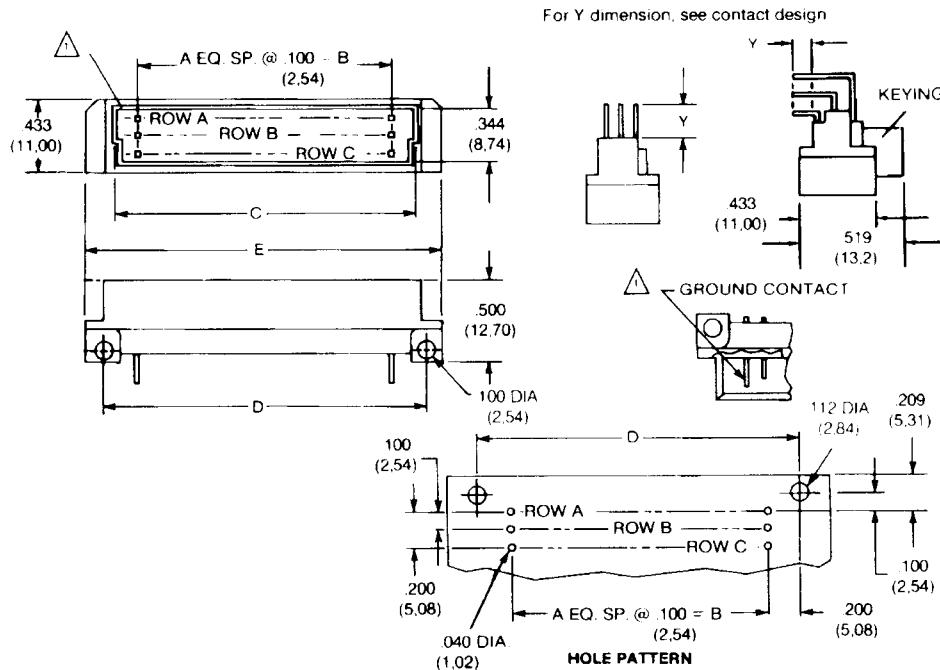
ELCO

DIN 41612 Connectors



Series 8457 - Male Style $\frac{1}{3}$ C - 3 Rows (3 x 10) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
03	3 (3 x 10)	9	0.900 (22.86)	1.158 (29.41)	1.300 (33.02)	1.497 (38.02)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number		
			Performance classes according to DIN 41612		
			III	II	I
3.4 mm (Y) Straight	30	a + b + c fully loaded	10 8457 030 001 001	10 8457 030 001 025	10 8457 030 001 049
	20	a + c fully loaded	10 8457 030 001 002	10 8457 030 001 026	10 8457 030 001 050
	28 + 2	fully loaded + ground	10 8457 030 101 001	10 8457 030 101 025	10 8457 030 101 049
3.0 mm (Y) Right Angled	30	a + b + c fully loaded	10 8457 030 002 001	10 8457 030 002 025	10 8457 030 002 049
	20	a + c fully loaded	10 8457 030 002 002	10 8457 030 002 026	10 8457 030 002 050
	28 + 2	fully loaded + ground	10 8457 030 102 001	10 8457 030 102 025	10 8457 030 102 049
13.0 mm (Y) Straight	30	a + b + c fully loaded	10 8457 030 003 001	10 8457 030 003 025	10 8457 030 003 049
	20	a + c fully loaded	10 8457 030 003 002	10 8457 030 003 026	10 8457 030 003 050
11.3 mm (Y) Right Angled	30	a + b + c fully loaded	10 8457 030 004 001	10 8457 030 004 025	10 8457 030 004 049
	20	a + c fully loaded	10 8457 030 004 002	10 8457 030 004 026	10 8457 030 004 050
7.7 mm (Y) Solder Hole	30	a + b + c fully loaded	10 8457 030 006 001	10 8457 030 006 025	10 8457 030 006 049
	20	a + c fully loaded	10 8457 030 006 002	10 8457 030 006 026	10 8457 030 006 050
6.4 mm (Y) Solder Loop	30	a + b + c fully loaded	10 8457 030 007 001	10 8457 030 007 025	10 8457 030 007 049
	20	a + c fully loaded	10 8457 030 007 002	10 8457 030 007 026	10 8457 030 007 050
2.3 mm (Y) Right Angled	30	a + b + c fully loaded	10 8457 030 008 001	10 8457 030 008 025	10 8457 030 008 049
	20	a + c fully loaded	10 8457 030 008 002	10 8457 030 008 026	10 8457 030 008 050
	28 + 2	fully loaded + ground	10 8457 030 108 001	10 8457 030 108 025	10 8457 030 108 049

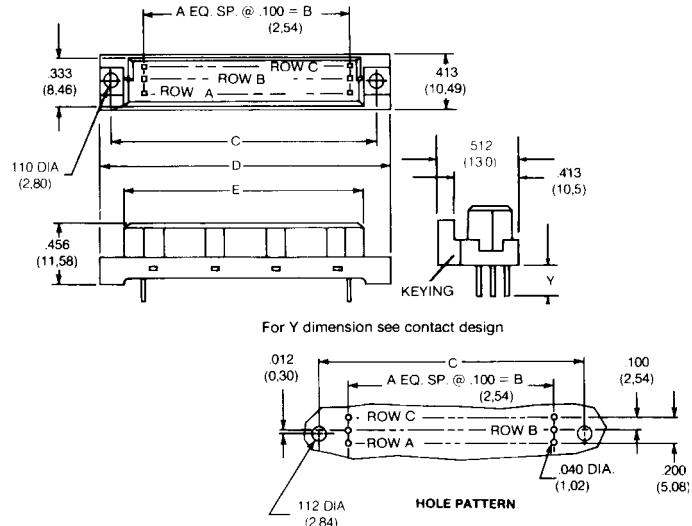
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DIN 41612 Connectors



Series 8457 - Female Style $\frac{1}{3}$ C - 3 Rows (3 x 10) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
030	3 (3 x 10)	9	0.900 (22.86)	1.163 (34.75)	1.563 (39.70)	1.144 (29.06)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Straight	30	a + b + c fully loaded	20 8457 030 001 001	20 8457 030 001 025	20 8457 030 001 049
	20	a + c fully loaded	20 8457 030 001 002	20 8457 030 001 026	20 8457 030 001 050
0.6 x 0.6 mm Post Profile 2.9 mm (Y) Straight	30	a + b + c fully loaded	20 8457 030 002 001	20 8457 030 002 025	20 8457 030 002 049
	20	a + c fully loaded	20 8457 030 002 002	20 8457 030 002 026	20 8457 030 002 050
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Straight	30	a + b + c fully loaded	20 8457 030 003 001	20 8457 030 003 025	20 8457 030 003 049
	20	a + c fully loaded	20 8457 030 003 002	20 8457 030 003 026	20 8457 030 003 050
0.3 x 0.79 mm Post Profile 2.9 mm (Y) Straight	30	a + b + c fully loaded	20 8457 030 004 001	20 8457 030 004 025	20 8457 030 004 049
	20	a + c fully loaded	20 8457 030 004 002	20 8457 030 004 026	20 8457 030 004 050
0.6 x 0.6 mm Post Profile 13.0 mm (Y) Straight	30	a + b + c fully loaded	20 8457 030 005 001	20 8457 030 005 025	20 8457 030 005 049
	20	a + c fully loaded	20 8457 030 005 002	20 8457 030 005 026	20 8457 030 005 050
0.6 x 0.6 mm Post Profile 7.0 mm (Y) Straight	30	a + b + c fully loaded	20 8457 030 010 001	20 8457 030 010 025	20 8457 030 010 049
	20	a + c fully loaded	20 8457 030 010 002	20 8457 030 010 026	20 8457 030 010 050
0.6 x 0.6 mm Post Profile 3.5 mm (Y) Straight	30	a + b + c fully loaded	20 8457 030 011 001	20 8457 030 011 025	20 8457 030 011 049
	20	a + c fully loaded	20 8457 030 011 002	20 8457 030 011 026	20 8457 030 011 050
0.6 x 0.6 mm Post Profile 19.4 mm (Y) Straight	30	a + b + c fully loaded	20 8457 030 012 001	20 8457 030 012 025	20 8457 030 012 049
	20	a + c fully loaded	20 8457 030 012 002	20 8457 030 012 026	20 8457 030 012 050
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Right Angled	30	a + b + c fully loaded	20 8457 030 013 001	20 8457 030 013 025	20 8457 030 013 049
	20	a + c fully loaded	20 8457 030 013 002	20 8457 030 013 026	20 8457 030 013 050

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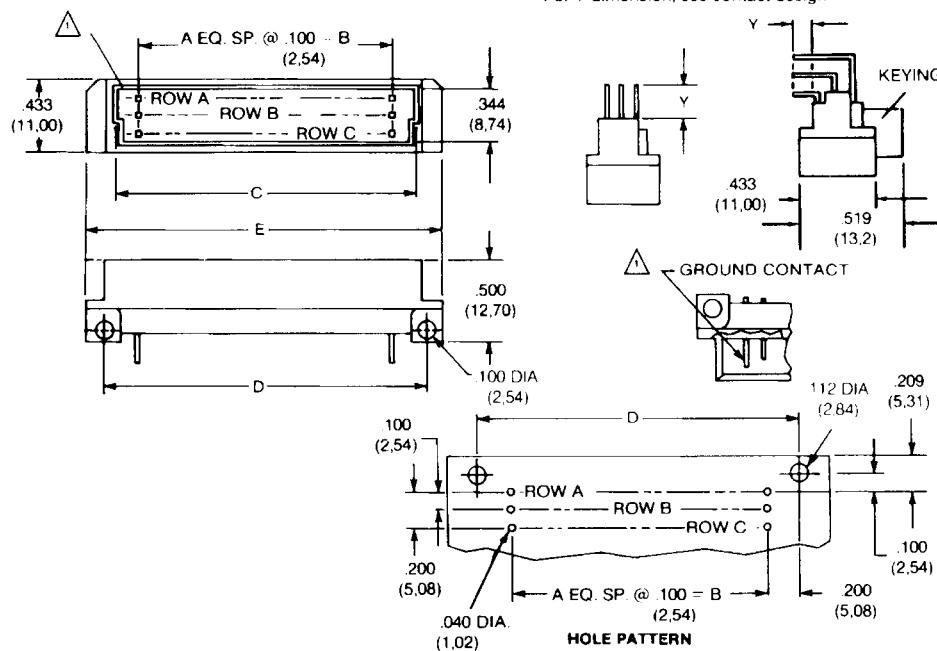
ELCO

DIN 41612 Connectors



Series 8457 - Male Style 1/2 C - 3 Rows (3 x 16) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
048	3 (3 x 16)	15	1.500 (38.10)	1.760 (44.70)	1.900 (48.26)	2.122 (53.90)

Contact Design and Termination Length	Number of Positions	Part Number Loading Description	Performance classes according to DIN 41612		
			III	II	I
3.4 mm (Y) Straight	48	a + b + c fully loaded	10 8457 048 001 001	10 8457 048 001 025	10 8457 048 001 049
	32	a + c fully loaded	10 8457 048 001 002	10 8457 048 001 026	10 8457 048 001 050
	16	a loading only	10 8457 048 001 003	10 8457 048 001 027	10 8457 048 001 051
	46 + 2	fully loaded + ground	10 8457 048 101 001	10 8457 048 101 025	10 8457 048 101 049
3.0 mm (Y) Right Angled	48	a + b + c fully loaded	10 8457 048 002 001	10 8457 048 002 025	10 8457 048 002 049
	32	a + c fully loaded	10 8457 048 002 002	10 8457 048 002 026	10 8457 048 002 050
	16	a loading only	10 8457 048 002 003	10 8457 048 002 027	10 8457 048 002 051
	46 + 2	fully loaded + ground	10 8457 048 102 001	10 8457 048 102 025	10 8457 048 102 049
13.0 mm (Y) Straight	48	a + b + c fully loaded	10 8457 048 003 001	10 8457 048 003 025	10 8457 048 003 049
	32	a + c fully loaded	10 8457 048 003 002	10 8457 048 003 026	10 8457 048 003 050
	16	a loading only	10 8457 048 003 003	10 8457 048 003 027	10 8457 048 003 051
11.3 mm (Y) Right Angled	48	a + b + c fully loaded	10 8457 048 004 001	10 8457 048 004 025	10 8457 048 004 049
	32	a + c fully loaded	10 8457 048 004 002	10 8457 048 004 026	10 8457 048 004 050
	16	a loading only	10 8457 048 004 003	10 8457 048 004 027	10 8457 048 004 051
7.7 mm (Y) Solder Hole	48	a + b + c fully loaded	10 8457 048 006 001	10 8457 048 006 025	10 8457 048 006 049
	32	a + c fully loaded	10 8457 048 006 002	10 8457 048 006 026	10 8457 048 006 050
	16	a loading only	10 8457 048 006 003	10 8457 048 006 027	10 8457 048 006 051
6.4 mm (Y) Solder Loop	48	a + b + c fully loaded	10 8457 048 007 001	10 8457 048 007 025	10 8457 048 007 049
	32	a + c fully loaded	10 8457 048 007 002	10 8457 048 007 026	10 8457 048 007 050
	16	a loading only	10 8457 048 007 003	10 8457 048 007 027	10 8457 048 007 051
2.3 mm (Y) Right Angled	48	a + b + c fully loaded	10 8457 048 008 001	10 8457 048 008 025	10 8457 048 008 049
	32	a + c fully loaded	10 8457 048 008 002	10 8457 048 008 026	10 8457 048 008 050
	16	a loading only	10 8457 048 008 003	10 8457 048 008 027	10 8457 048 008 051
	46 + 2	fully loaded + ground	10 8457 048 108 001	10 8457 048 108 025	10 8457 048 108 049

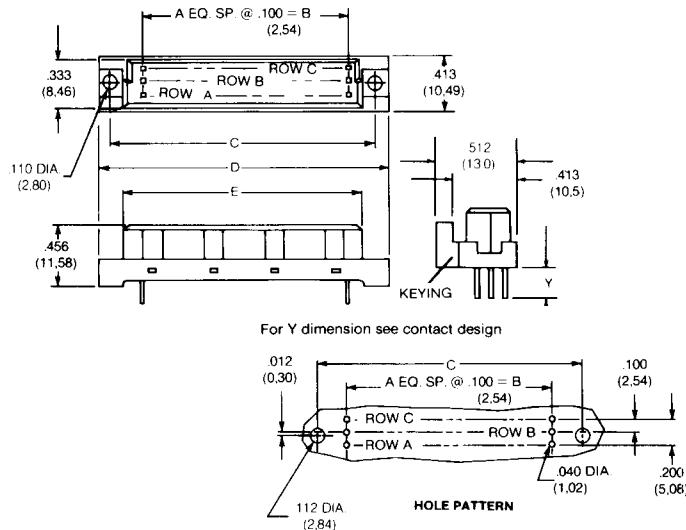
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DIN 41612 Connectors



Series 8457 - Female Style 1/2 C - 3 Rows (3 x 16) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
048	3 (3 x 16)	15	1.500 (38.10)	1.969 (50.01)	2.161 (54.89)	1.744 (44.30)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Straight	48	a + b + c fully loaded	20 8457 048 001 001	20 8457 048 001 025	20 8457 048 001 049
	32	a + c fully loaded	20 8457 048 001 002	20 8457 048 001 026	20 8457 048 001 050
	16	a loading only	20 8457 048 001 003	20 8457 048 001 027	20 8457 048 001 051
0.6 x 0.6 mm Post Profile 2.9 mm (Y) Straight	48	a + b + c fully loaded	20 8457 048 002 001	20 8457 048 002 025	20 8457 048 002 049
	32	a + c fully loaded	20 8457 048 002 002	20 8457 048 002 026	20 8457 048 002 050
	16	a loading only	20 8457 048 002 003	20 8457 048 002 027	20 8457 048 002 051
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Straight	48	a + b + c fully loaded	20 8457 048 003 001	20 8457 048 003 025	20 8457 048 003 049
	32	a + c fully loaded	20 8457 048 003 002	20 8457 048 003 026	20 8457 048 003 050
	16	a loading only	20 8457 048 003 003	20 8457 048 003 027	20 8457 048 003 051
0.3 x 0.79 mm Post Profile 2.9 mm (Y) Straight	48	a + b + c fully loaded	20 8457 048 004 001	20 8457 048 004 025	20 8457 048 004 049
	32	a + c fully loaded	20 8457 048 004 002	20 8457 048 004 026	20 8457 048 004 050
	16	a loading only	20 8457 048 004 003	20 8457 048 004 027	20 8457 048 004 051
0.6 x 0.6 mm Post Profile 13.0 mm (Y) Straight	48	a + b + c fully loaded	20 8457 048 005 001	20 8457 048 005 025	20 8457 048 005 049
	32	a + c fully loaded	20 8457 048 005 002	20 8457 048 005 026	20 8457 048 005 050
	16	a loading only	20 8457 048 005 003	20 8457 048 005 027	20 8457 048 005 051
0.6 x 0.6 mm Post Profile 7.0 mm (Y) Straight	48	a + b + c fully loaded	20 8457 048 010 001	20 8457 048 010 025	20 8457 048 010 049
	32	a + c fully loaded	20 8457 048 010 002	20 8457 048 010 026	20 8457 048 010 050
	16	a loading only	20 8457 048 010 003	20 8457 048 010 027	20 8457 048 010 051
0.6 x 0.6 mm Post Profile 3.5 mm (Y) Straight	48	a + b + c fully loaded	20 8457 048 011 001	20 8457 048 011 025	20 8457 048 011 049
	32	a + c fully loaded	20 8457 048 011 002	20 8457 048 011 026	20 8457 048 011 050
	16	a loading only	20 8457 048 011 003	20 8457 048 011 027	20 8457 048 011 051
0.6 x 0.6 mm Post Profile 19.4 mm (Y) Straight	48	a + b + c fully loaded	20 8457 048 012 001	20 8457 048 012 025	20 8457 048 012 049
	32	a + c fully loaded	20 8457 048 012 002	20 8457 048 012 026	20 8457 048 012 050
	16	a loading only	20 8457 048 012 003	20 8457 048 012 027	20 8457 048 012 051
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Right Angled	48	a + b + c fully loaded	20 8457 048 013 001	20 8457 048 013 025	20 8457 048 013 049
	32	a + c fully loaded	20 8457 048 013 002	20 8457 048 013 026	20 8457 048 013 050
	16	a loading only	20 8457 048 013 003	20 8457 048 013 027	20 8457 048 013 051

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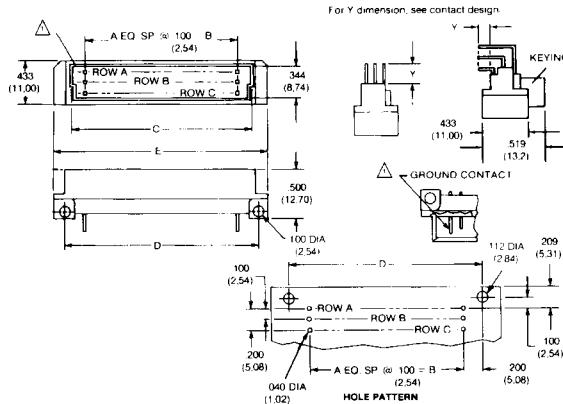
ELCO

DIN 41612 Connectors



Series 8457 - Male Style C - 3 Rows (3 x 32) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
096	3 (3 x 32)	31	3.100 (78.74)	3.358 (85.29)	3.500 (88.90)	3.697 (93.90)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
3.4 mm (Y) Straight	96	a + b + c fully loaded	10 8457 096 001 001	10 8457 096 001 025	10 8457 096 001 049
	64	a + c fully loaded	10 8457 096 001 002	10 8457 096 001 026	10 8457 096 001 050
	32	a + c even loading	10 8457 096 001 009	10 8457 096 001 033	10 8457 096 001 057
	32	a loading only	10 8457 096 001 003	10 8457 096 001 027	10 8457 096 001 051
	94 + 2	fully loaded + ground	10 8457 096 101 001	10 8457 096 101 025	10 8457 096 101 049
3.0 mm (Y) Right Angled	96	a + b + c fully loaded	10 8457 096 002 001	10 8457 096 002 025	10 8457 096 002 049
	64	a + c fully loaded	10 8457 096 002 002	10 8457 096 002 026	10 8457 096 002 050
	32	a + c even loading	10 8457 096 002 009	10 8457 096 002 033	10 8457 096 002 057
	32	a loading only	10 8457 096 002 003	10 8457 096 002 027	10 8457 096 002 051
	94 + 2	fully loaded + ground	10 8457 096 102 001	10 8457 096 102 025	10 8457 096 102 049
13.0 mm (Y) Straight	96	a + b + c fully loaded	10 8457 096 003 001	10 8457 096 003 025	10 8457 096 003 049
	64	a + c fully loaded	10 8457 096 003 002	10 8457 096 003 026	10 8457 096 003 050
	32	a + c even loading	10 8457 096 003 009	10 8457 096 003 033	10 8457 096 003 057
	32	a loading only	10 8457 096 003 003	10 8457 096 003 027	10 8457 096 003 051
11.3mm (Y) Right Angled	96	a + b + c fully loaded	10 8457 096 004 001	10 8457 096 004 025	10 8457 096 004 049
	64	a + c fully loaded	10 8457 096 004 002	10 8457 096 004 026	10 8457 096 004 050
	32	a + c even loading	10 8457 096 004 009	10 8457 096 004 033	10 8457 096 004 057
	32	a loading only	10 8457 096 004 003	10 8457 096 004 027	10 8457 096 004 051
7.7 mm (Y) Solder Hole	96	a + b + c fully loaded	10 8457 096 006 001	10 8457 096 006 025	10 8457 096 006 049
	64	a + c fully loaded	10 8457 096 006 002	10 8457 096 006 026	10 8457 096 006 050
	32	a + c even loading	10 8457 096 006 009	10 8457 096 006 033	10 8457 096 006 057
	32	a loading only	10 8457 096 006 003	10 8457 096 006 027	10 8457 096 006 051
6.4 mm (Y) Solder Loop	96	a + b + c fully loaded	10 8457 096 007 001	10 8457 096 007 025	10 8457 096 007 049
	64	a + c fully loaded	10 8457 096 007 002	10 8457 096 007 026	10 8457 096 007 050
	32	a + c even loading	10 8457 096 007 009	10 8457 096 007 033	10 8457 096 007 057
	32	a loading only	10 8457 096 007 003	10 8457 096 007 027	10 8457 096 007 051
2.3 mm (Y) Right Angled	96	a + b + c fully loaded	10 8457 096 008 001	10 8457 096 008 025	10 8457 096 008 049
	64	a + c fully loaded	10 8457 096 008 002	10 8457 096 008 026	10 8457 096 008 050
	32	a + c even loading	10 8457 096 008 009	10 8457 096 008 033	10 8457 096 008 057
	32	a loading only	10 8457 096 008 003	10 8457 096 008 027	10 8457 096 008 051
	94 + 2	fully loaded + ground	10 8457 096 108 001	10 8457 096 108 025	10 8457 096 108 04

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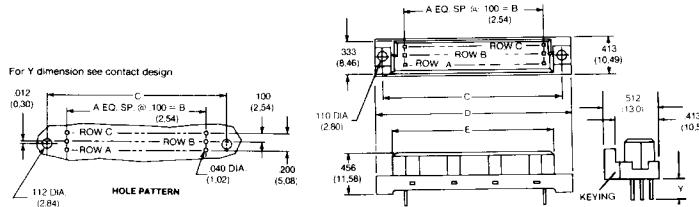
ELCO

DIN 41612 Connectors



Series 8457 - Female Style C - 3 Rows (3 x 32) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
096	3 (3 x 32)	31	3.100 (78.74)	3.543 (89.99)	3.736 (94.89)	3.343 (84.91)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Straight	96	a + b + c fully loaded	20 8457 096 001 001	20 8457 096 001 025	20 8457 096 001 049
	64	a + c fully loaded	20 8457 096 001 002	20 8457 096 001 026	20 8457 096 001 050
	32	a + c even loading	20 8457 096 001 009	20 8457 096 001 033	20 8457 096 001 057
	32	a loading only	20 8457 096 001 003	20 8457 096 001 027	20 8457 096 001 051
0.6 x 0.6 mm Post Profile 2.9 mm (Y) Straight	96	a + b + c fully loaded	20 8457 096 002 001	20 8457 096 002 025	20 8457 096 002 049
	64	a + c fully loaded	20 8457 096 002 002	20 8457 096 002 026	20 8457 096 002 050
	32	a + c even loading	20 8457 096 002 009	20 8457 096 002 033	20 8457 096 002 057
	32	a loading only	20 8457 096 002 003	20 8457 096 002 027	20 8457 096 002 051
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Straight	96	a + b + c fully loaded	20 8457 096 003 001	20 8457 096 003 025	20 8457 096 003 049
	64	a + c fully loaded	20 8457 096 003 002	20 8457 096 003 026	20 8457 096 003 050
	32	a + c even loading	20 8457 096 003 009	20 8457 096 003 033	20 8457 096 003 057
	32	a loading only	20 8457 096 003 003	20 8457 096 003 027	20 8457 096 003 051
0.3 x 0.79 mm Post Profile 2.9 mm (Y) Straight	96	a + b + c fully loaded	20 8457 096 004 001	20 8457 096 004 025	20 8457 096 004 049
	64	a + c fully loaded	20 8457 096 004 002	20 8457 096 004 026	20 8457 096 004 050
	32	a + c even loading	20 8457 096 004 009	20 8457 096 004 033	20 8457 096 004 057
	32	a loading only	20 8457 096 004 003	20 8457 096 004 027	20 8457 096 004 051
0.6 x 0.6 mm Post Profile 13.0 mm (Y) Straight	96	a + b + c fully loaded	20 8457 096 005 001	20 8457 096 005 025	20 8457 096 005 049
	64	a + c fully loaded	20 8457 096 005 002	20 8457 096 005 026	20 8457 096 005 050
	32	a + c even loading	20 8457 096 005 009	20 8457 096 005 033	20 8457 096 005 057
	32	a loading only	20 8457 096 005 003	20 8457 096 005 027	20 8457 096 005 051
0.6 x 0.6 mm Post Profile 7.0 mm (Y) Straight	96	a + b + c fully loaded	20 8457 096 010 001	20 8457 096 010 025	20 8457 096 010 049
	64	a + c fully loaded	20 8457 096 010 002	20 8457 096 010 026	20 8457 096 010 050
	32	a + c even loading	20 8457 096 010 009	20 8457 096 010 033	20 8457 096 010 057
	32	a loading only	20 8457 096 010 003	20 8457 096 010 027	20 8457 096 010 051
0.6 x 0.6 mm Post Profile 3.5 mm (Y) Straight	96	a + b + c fully loaded	20 8457 096 011 001	20 8457 096 011 025	20 8457 096 011 049
	64	a + c fully loaded	20 8457 096 011 002	20 8457 096 011 026	20 8457 096 011 050
	32	a + c all even loading	20 8457 096 011 009	20 8457 096 011 033	20 8457 096 011 057
	32	a loading only	20 8457 096 011 003	20 8457 096 011 027	20 8457 096 011 051
0.6 x 0.6 mm Post Profile 19.4 mm (Y) Straight	96	a + b + c fully loaded	20 8457 096 012 001	20 8457 096 012 025	20 8457 096 012 049
	64	a + c fully loaded	20 8457 096 012 002	20 8457 096 012 026	20 8457 096 012 050
	32	a + c even loading	20 8457 096 012 009	20 8457 096 012 033	20 8457 096 012 057
	32	a loading only	20 8457 096 012 003	20 8457 096 012 027	20 8457 096 012 051
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Right Angled	96	a + b + c fully loaded	20 8457 096 013 001	20 8457 096 013 025	20 8457 096 013 049
	64	a + c fully loaded	20 8457 096 013 002	20 8457 096 013 026	20 8457 096 013 050
	32	a + c even loading	20 8457 096 013 009	20 8457 096 013 033	20 8457 096 013 057
	32	a loading only	20 8457 096 013 003	20 8457 096 013 027	20 8457 096 013 051

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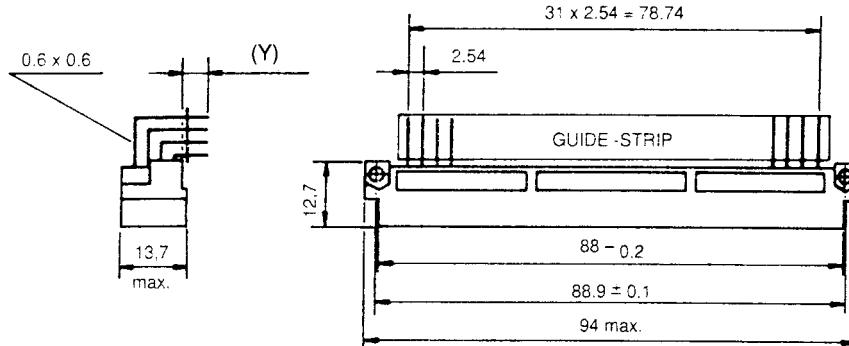
ELCO

DIN 41612 Connectors



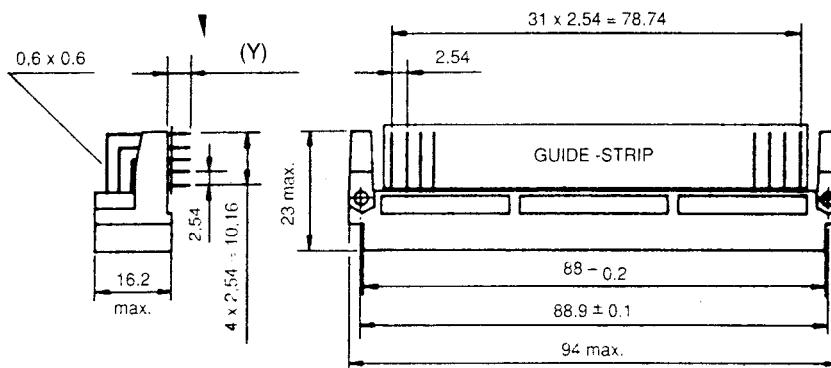
Series 8457 - Male Style C Expanded - 4 Rows (4 x 32) - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
3.4 mm (Y) Straight	128	a + b + c + d fully loaded	10 8457 128 001 001	10 8457 128 001 025	10 8457 096 001 049
	126 + 2	4 rows fully loaded + ground	10 8457 128 101 001	10 8457 128 101 025	10 8457 096 101 049
3.0 mm (Y) Right Angled	128	a + b + c + d fully loaded	10 8457 128 002 001	10 8457 128 002 025	10 8457 096 002 049
	126 + 2	4 rows fully loaded + ground	10 8457 128 102 001	10 8457 128 102 025	10 8457 096 102 049

Series 8457 - Male Style C Expanded - 5 Rows (5 x 32) - .100 Pitch



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
3.4 mm (Y) Straight	160	a + b + c + d + e fully loaded	10 8457 160 001 001	10 8457 160 001 025	10 8457 096 001 049
	158 + 2	5 rows fully loaded + ground	10 8457 160 101 001	10 8457 160 101 025	10 8457 096 101 049
3.0 mm (Y) Right Angled	160	a + b + c + d + e fully loaded	10 8457 160 002 001	10 8457 160 002 025	10 8457 096 002 049
	158 + 2	5 rows fully loaded + ground	10 8457 160 102 001	10 8457 160 102 025	10 8457 096 102 049

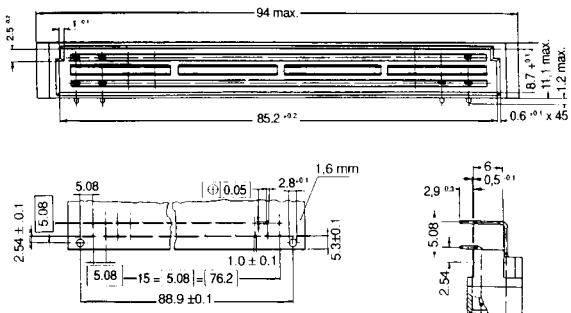
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DIN 41612 Connectors



Series 8447 - Male Style D - 2 Rows (2 x 16) - .100 or .200 Pitch

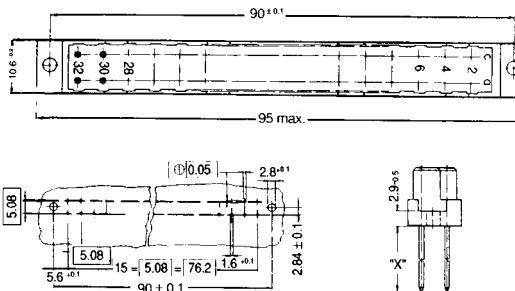
Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
3.0 mm (Y) (0.6 x 0.6 mm) Right Angled Pitch 5.08	32	a + c fully loaded	10 8447 032 001 001	10 8447 032 001 025	10 8447 032 001 049
	30 + 2	fully loaded + ground	10 8447 032 101 001	10 8447 032 101 025	10 8447 032 101 049
3.0 mm (Y) (0.6 x 0.6 mm) Right Angled Pitch 2.54	32	a + c fully loaded	10 8447 032 002 001	10 8447 032 002 025	10 8447 032 002 049
	30 + 2	fully loaded + ground	10 8447 032 102 001	10 8447 032 102 025	10 8447 032 102 049

Series 8447 - Female Style D - 2 Rows (2 x 16) - .200 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
1 x 1 mm Post Profile 20.0 mm (Y) Straight	32	a + c fully loaded	20 8447 032 001 001	20 8447 032 001 025	20 8447 032 001 049
1 x 1 mm Post Profile 9.0 mm (Y) Straight	32	a + c fully loaded	20 8447 032 002 001	20 8447 032 002 025	20 8447 032 002 049
0.6 x 0.6 mm Post Profile 4.0 mm (Y) Straight	32	a + c fully loaded	20 8447 032 003 001	20 8447 032 003 025	20 8447 032 003 049
1 x 1 mm Post Profile 12.0 mm (Y) Straight	32	a + c fully loaded	20 8447 032 004 001	20 8447 032 004 025	20 8447 032 004 049
0.6 x 1.28 mm Post Profile 4.5 mm (Y) Straight	32	a + c fully loaded	20 8447 032 006 001	20 8447 032 006 025	20 8447 032 006 049
7.5 mm (Y) Solder Hole	32	a + c fully loaded	20 8447 032 007 001	20 8447 032 007 025	20 8447 032 007 049

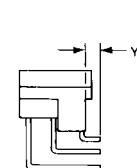
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DIN 41612 Connectors

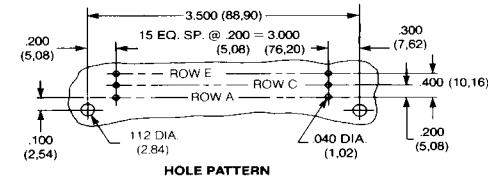
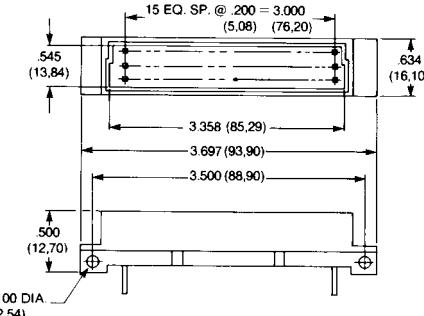


Series 8447 - Male Style E - 3 Rows (3 x 16) - .200 Pitch

Dimensions



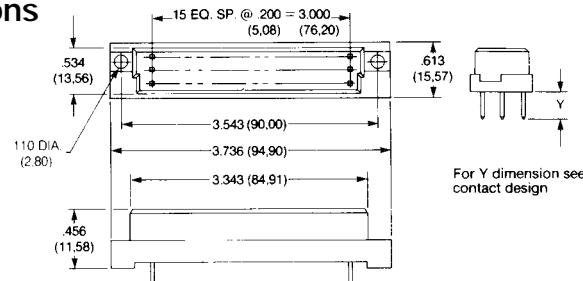
For Y dimension see contact design



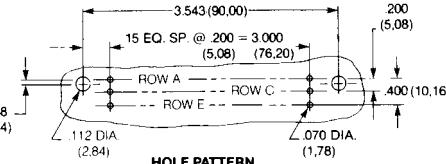
Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
3.0 mm (Y) (0.6 x 0.6 mm) Right Angled Pitch 5.08	48	a + c + e fully loaded	10 8447 048 001 001	10 8447 048 001 025	10 8447 048 001 049
	46 + 2	fully loaded + ground	10 8447 048 101 001	10 8447 048 101 025	10 8447 048 101 049
3.0 mm (Y) (0.6 x 0.6 mm) Right Angled Pitch 2.54	48	a + c + e fully loaded	10 8447 048 002 001	10 8447 048 002 025	10 8447 048 002 049
	46 + 2	fully loaded + ground	10 8447 048 102 001	10 8447 048 102 025	10 8447 048 102 049

Series 8447 - Female Style E - 3 Rows (3 x 16) - .200 Pitch

Dimensions



For Y dimension see contact design



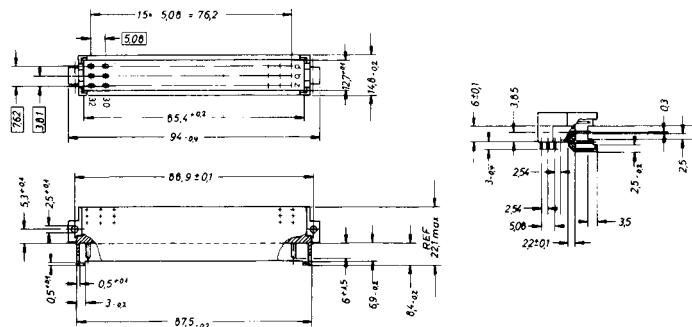
Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
1 x 1 mm Post Profile 20.0 mm (Y) Straight	48	a + c + e fully loaded	20 8447 048 001 001	20 8447 048 001 025	20 8447 048 001 049
1 x 1 mm Post Profile 9.0 mm (Y) Straight	48	a + c + e fully loaded	20 8447 048 002 001	20 8447 048 002 025	20 8447 048 002 049
0.6 x 0.6 mm Post Profile 4.0 mm (Y) Straight	48	a + c + e fully loaded	20 8447 048 003 001	20 8447 048 003 025	20 8447 048 003 049
1 x 1 mm Post Profile 12.0 mm (Y) Straight	48	a + c + e fully loaded	20 8447 048 004 001	20 8447 048 004 025	20 8447 048 004 049
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Straight	48	a + c + e fully loaded	20 8447 048 006 001	20 8447 048 006 025	20 8447 048 006 049
7.5 mm (Y) Solder Hole	48	a + c + e fully loaded	20 8447 048 007 001	20 8447 048 007 025	20 8447 048 007 049

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DIN 41612 Connectors



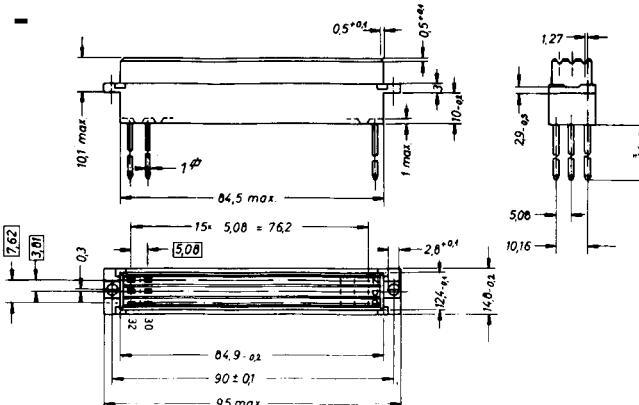
Series 8487 – Male Style F – 3 Rows (3 x 16) - .200 Pitch



Dimensions

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
 3.0 mm (Y) Right Angled Pitch 5.08	32	d + z fully loaded	10 8487 048 001 002	10 8487 048 001 026	10 8487 048 001 050
	32	b + z fully loaded	10 8487 048 001 005	10 8487 048 001 029	10 8487 048 001 053
	32	d + z fully, Ground in z2	59 8487 048 000 049	59 8487 048 000 055	59 8487 048 000 061
	32	d + z fully, Ground in z2 + z32	59 8487 048 000 050	59 8487 048 000 056	59 8487 048 000 062
	32	b + z fully, Ground in z2	59 8487 048 000 051	59 8487 048 000 057	59 8487 048 000 063
	32	b + z fully, Ground in z2 + z32	59 8487 048 000 052	59 8487 048 000 058	59 8487 048 000 063
	48	d + b + z fully loaded	10 8487 048 001 001	10 8487 048 001 025	10 8487 048 001 049
	48	fully loaded + Ground in z2	59 8487 048 000 047	59 8487 048 000 053	59 8487 048 000 059
	48	fully, Ground in z2 + z32	59 8487 048 000 048	59 8487 048 000 054	59 8487 048 000 060
	48	fully loaded + Ground in b2 + b32	59 8487 048 000 067	59 8487 048 000 066	59 8487 048 000 065
	48	fully loaded + Ground in d2 + d32	59 8487 048 000 070	59 8487 048 000 069	59 8487 048 000 068

Series 8487 – Female Style F - 3 Rows (3 x 16) - .200 Pitch



Dimensions

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 4.5 mm (X) Straight	48	d + b + z fully loaded	20 8487 048 001 001	20 8487 048 001 025	20 8487 048 001 049
	32	d + z fully loaded	20 8487 048 001 002	20 8487 048 001 026	20 8487 048 001 050
	32	b + z fully loaded	20 8487 048 001 005	20 8487 048 001 029	20 8487 048 001 053
1 x 1 mm Post Profile 22.0 mm (X) Straight	48	d + b + z fully loaded	20 8487 048 002 001	20 8487 048 002 025	20 8487 048 002 049
	32	d + z fully loaded	20 8487 048 002 002	20 8487 048 002 026	20 8487 048 002 050
	32	b + z fully loaded	20 8487 048 002 005	20 8487 048 002 029	20 8487 048 002 053
Soldereyelet 9.0 mm (X) Straight	48	d + b + z fully loaded	20 8487 048 003 001	20 8487 048 003 025	20 8487 048 003 049
	32	d + z fully loaded	20 8487 048 003 002	20 8487 048 003 026	20 8487 048 003 050
	32	b + z fully loaded	20 8487 048 003 005	20 8487 048 003 029	20 8487 048 003 053
1 x 1 mm Post Profile 4.0 mm (X) Straight	48	d + b + z fully loaded	20 8487 048 004 001	20 8487 048 004 025	20 8487 048 004 049
	32	d + z fully loaded	20 8487 048 004 002	20 8487 048 004 026	20 8487 048 004 050
	32	b + z fully loaded	20 8487 048 004 005	20 8487 048 004 029	20 8487 048 004 053
0.4 x 0.6 mm Post Profile 3.2 mm (X) Straight	48	d + b + z fully loaded	20 8487 048 005 001	20 8487 048 005 025	20 8487 048 005 049
	32	d + z fully loaded	20 8487 048 005 002	20 8487 048 005 026	20 8487 048 005 050
	32	b + z fully loaded	20 8487 048 005 005	20 8487 048 005 029	20 8487 048 005 053

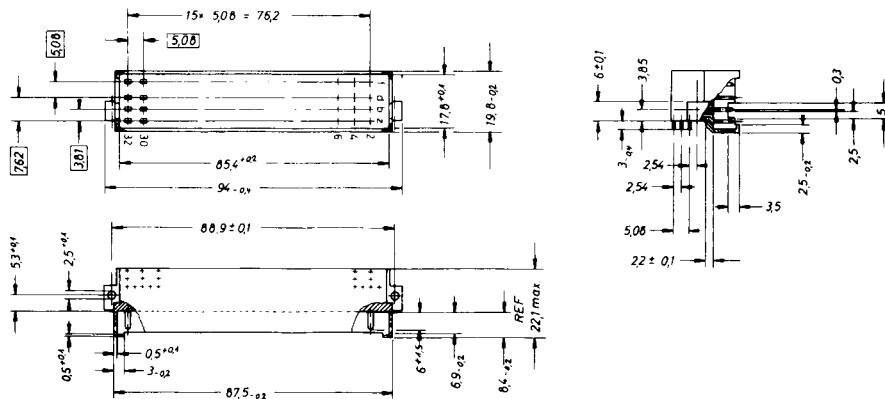
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DIN 41612 Connectors



Series 8487 - Male Style G - 4 Rows (4 x 16) - .200 Pitch

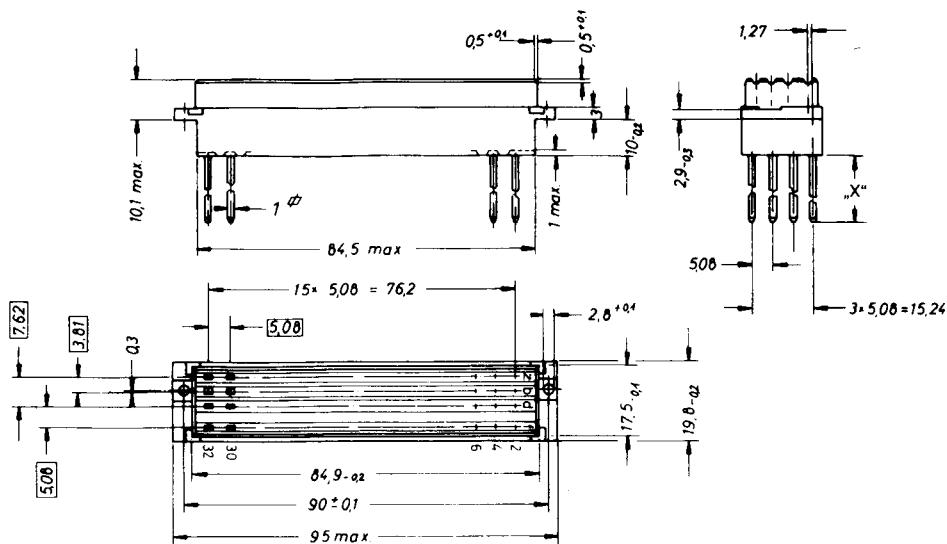
Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number			
			Performance classes according to DIN 41612	III	II	I
3.0 mm (Y) Right Angled	64	f + d + b + z fully loaded	10 8487 064 001 001	10 8487 064 001 025	10 8487 064 001 049	

Series 8487 - Female Style G - 4 Rows (4 x 16) - .200 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number			
			Performance classes according to DIN 41612	III	II	I
1 x 1 mm Post Profile 4.5 mm (X) Straight	64	f + d + b + z fully loaded	20 8487 064 001 001	20 8487 064 001 025	20 8487 064 001 049	
1 x 1 mm Post Profile 22.0 mm (X) Straight	64	f + d + b + z fully loaded	20 8487 064 002 001	20 8487 064 002 025	20 8487 064 002 049	

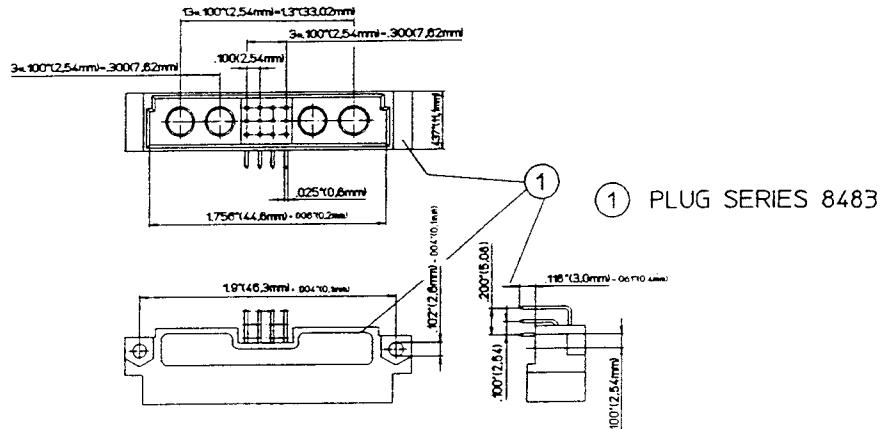
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DIN 41612 Connectors



Series 8483 – Male Style ½ M - 3 Rows (3 x 4 or 10) - .100 Pitch

Dimensions



CONTACT ARRANGEMENT

variations receivable (mating side)						max. pin counts
15	12	9	6	5	7	
a						36+
b						max. 2 signal contacts
c						12+
d						max. 4 signal contacts
e						
f						

Contact Design and Termination Length	No. of Cavities for Single Positions	No. of Cavities for Special Positions	Loading Description	Part Number Performance classes according to DIN 41612		
				III	II	I
3.0 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	10 8483 012 001 001	10 8483 012 001 025	10 8483 012 001 049
	30 (3 x 10)	2	a + b + c fully loaded	10 8483 030 001 001	10 8483 030 001 025	10 8483 030 001 049
11.4 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	10 8483 012 002 001	10 8483 012 002 025	10 8483 012 002 049
	30 (3 x 10)	2	a + b + c fully loaded	10 8483 030 002 001	10 8483 030 002 025	10 8483 030 002 049
3.0 mm (Y) Right Angled	12 (3 x 4)	4	a + b + c fully loaded	10 8483 012 003 001	10 8483 012 003 025	10 8483 012 003 049
	30 (3 x 10)	2	a + b + c fully loaded	10 8483 030 003 001	10 8483 030 003 025	10 8483 030 003 049
11.3mm (Y) Right Angled	12 (3 x 4)	4	a + b + c fully loaded	10 8483 012 004 001	10 8483 012 004 025	10 8483 012 004 049
	30 (3 x 10)	2	a + b + c fully loaded	10 8483 030 004 001	10 8483 030 004 025	10 8483 030 004 049
Solder eyelet rows a + c 4.8 mm row b 7.5 mm	12 (3 x 4)	4	a + b + c fully loaded	10 8483 012 005 001	10 8483 012 005 025	10 8483 012 005 049
	30 (3 x 10)	2	a + b + c fully loaded	10 8483 030 005 001	10 8483 030 005 025	10 8483 030 005 049
Solder hole rows a + c 6.1 mm row b 8.8 mm	12 (3 x 4)	4	a + b + c fully loaded	10 8483 012 006 001	10 8483 012 006 025	10 8483 012 006 049
	30 (3 x 10)	2	a + b + c fully loaded	10 8483 030 006 001	10 8483 030 006 025	10 8483 030 006 049

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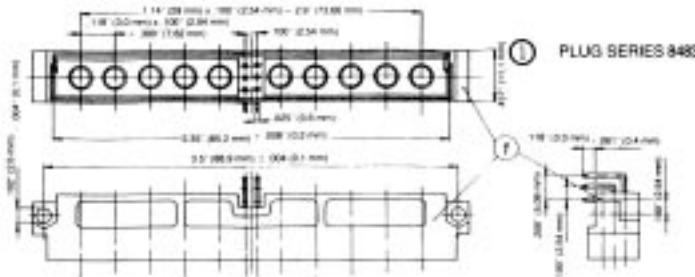
ELCO

DIN 41612 Connectors



Series 8483 – Male Style M - Fully Loaded - 3 Rows (3 x 2, 8, 14, 20 or 28) - .100 Pitch

Dimensions



Contact Design and Termination Length	No. of Cavities for Single Positions	No. of Cavities for Special Positions	Loading Description	Part Number Performance classes according to DIN 41612		
				III	II	I
3.0 mm (Y) Straight	6 (3 x 2)	10	a + b + c fully loaded	10 8483 006 001 001	10 8483 006 001 025	10 8483 006 001 049
	24 (3 x 8)	8	a + b + c fully loaded	10 8483 024 001 001	10 8483 024 001 025	10 8483 024 001 049
	42 (3 x 14)	6	a + b + c fully loaded	10 8483 042 001 001	10 8483 042 001 025	10 8483 042 001 049
	60 (3 x 20)	4	a + b + c fully loaded	10 8483 060 001 001	10 8483 060 001 025	10 8483 060 001 049
	78 (3 x 28)	2	a + b + c fully loaded	10 8483 078 001 001	10 8483 078 001 025	10 8483 078 001 049
11.4 mm (Y) Straight	6 (3 x 2)	10	a + b + c fully loaded	10 8483 006 002 001	10 8483 006 002 025	10 8483 006 002 049
	24 (3 x 8)	8	a + b + c fully loaded	10 8483 024 002 001	10 8483 024 002 025	10 8483 024 002 049
	42 (3 x 14)	6	a + b + c fully loaded	10 8483 042 002 001	10 8483 042 002 025	10 8483 042 002 049
	60 (3 x 20)	4	a + b + c fully loaded	10 8483 060 002 001	10 8483 060 002 025	10 8483 060 002 049
	78 (3 x 28)	2	a + b + c fully loaded	10 8483 078 002 001	10 8483 078 002 025	10 8483 078 002 049
3.0 mm (Y) Right Angled	6 (3 x 2)	10	a + b + c fully loaded	10 8483 006 003 001	10 8483 006 003 025	10 8483 006 003 049
	24 (3 x 8)	8	a + b + c fully loaded	10 8483 024 003 001	10 8483 024 003 025	10 8483 024 003 049
	42 (3 x 14)	6	a + b + c fully loaded	10 8483 042 003 001	10 8483 042 003 025	10 8483 042 003 049
	60 (3 x 20)	4	a + b + c fully loaded	10 8483 060 003 001	10 8483 060 003 025	10 8483 060 003 049
	78 (3 x 28)	2	a + b + c fully loaded	10 8483 078 003 001	10 8483 078 003 025	10 8483 078 003 049
11.3mm (Y) Right Angled	6 (3 x 2)	10	a + b + c fully loaded	10 8483 006 004 001	10 8483 006 004 025	10 8483 006 004 049
	24 (3 x 8)	8	a + b + c fully loaded	10 8483 024 004 001	10 8483 024 004 025	10 8483 024 004 049
	42 (3 x 14)	6	a + b + c fully loaded	10 8483 042 004 001	10 8483 042 004 025	10 8483 042 004 049
	60 (3 x 20)	4	a + b + c fully loaded	10 8483 060 004 001	10 8483 060 004 025	10 8483 060 004 049
	78 (3 x 28)	2	a + b + c fully loaded	10 8483 078 004 001	10 8483 078 004 025	10 8483 078 004 049
Solder eyelet rows a + c 4.8 mm row b 7.5 mm	6 (3 x 2)	10	a + b + c fully loaded	10 8483 006 005 001	10 8483 006 005 025	10 8483 006 005 049
	24 (3 x 8)	8	a + b + c fully loaded	10 8483 024 005 001	10 8483 024 005 025	10 8483 024 005 049
	42 (3 x 14)	6	a + b + c fully loaded	10 8483 042 005 001	10 8483 042 005 025	10 8483 042 005 049
	60 (3 x 20)	4	a + b + c fully loaded	10 8483 060 005 001	10 8483 060 005 025	10 8483 060 005 049
	78 (3 x 28)	2	a + b + c fully loaded	10 8483 078 005 001	10 8483 078 005 025	10 8483 078 005 049
Solder hole rows a + c 6.1 mm row b 8.8 mm	6 (3 x 2)	10	a + b + c fully loaded	10 8483 006 006 001	10 8483 006 006 025	10 8483 006 006 049
	24 (3 x 8)	8	a + b + c fully loaded	10 8483 024 006 001	10 8483 024 006 025	10 8483 024 006 049
	42 (3 x 14)	6	a + b + c fully loaded	10 8483 042 006 001	10 8483 042 006 025	10 8483 042 006 049
	60 (3 x 20)	4	a + b + c fully loaded	10 8483 060 006 001	10 8483 060 006 025	10 8483 060 006 049
	78 (3 x 28)	2	a + b + c fully loaded	10 8483 078 006 001	10 8483 078 006 025	10 8483 078 006 049

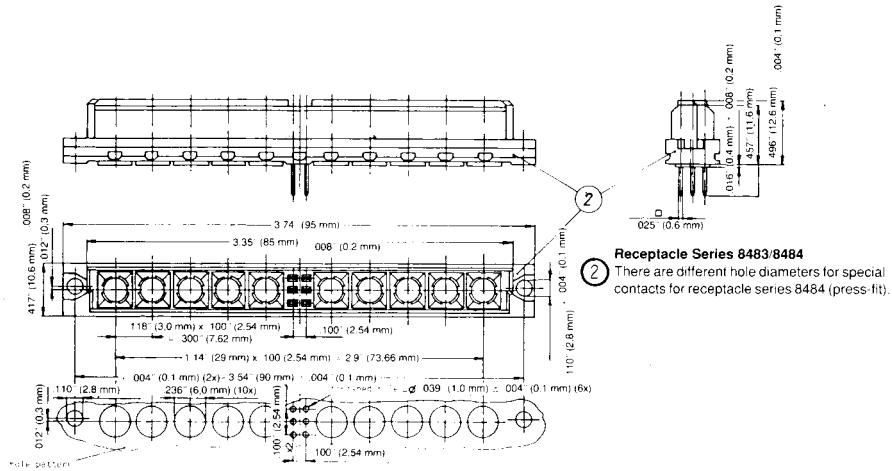
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DIN 41612 Connectors



Series 8483 - Female Style M - Fully Loaded - 3 Rows (3 x 2, 8, 14, 20 or 28) - .100 Pitch

Dimensions



Contact Arrangement

variations receivable (mating side)												max pin counts
3 ^t	2 ^b	2 ^a	2 ^c	1 ^b	1 ^a	1 ^c	11	8	5	2		
a	b	c	c	a	b	c	a	b	c	a	78 + max. 2 special contacts	
a	b	c	c	a	b	c	a	b	c	a	60 + max. 4 special contacts	
a	b	c	c	a	b	c	a	b	c	a	42 + max. 6 special contacts	
a	b	c	c	a	b	c	a	b	c	a	24 + max. 8 special contacts	
a	b	c	c	a	b	c	a	b	c	a	6 + max. 10 special contacts	

Contact Design and Termination Length	No. of Cavities for Single Positions	No. of Cavities for Special Positions	Loading Description	Part Number Performance classes according to DIN 41612		
				III	II	I
4.5 mm (Y) Straight	6 (3 x 2)	10	a + b + c fully loaded	20 8483 006 001 001	20 8483 006 001 025	20 8483 006 001 049
	24 (3 x 8)	8	a + b + c fully loaded	20 8483 024 001 001	20 8483 024 001 025	20 8483 024 001 049
	42 (3 x 14)	6	a + b + c fully loaded	20 8483 042 001 001	20 8483 042 001 025	20 8483 042 001 049
	60 (3 x 20)	4	a + b + c fully loaded	20 8483 060 001 001	20 8483 060 001 025	20 8483 060 001 049
	78 (2 x 28)	2	a + b + c fully loaded	20 8483 078 001 001	20 8483 078 001 025	20 8483 078 001 049
2.9 mm (Y) Straight	6 (3 x 2)	10	a + b + c fully loaded	20 8483 006 002 001	20 8483 006 002 025	20 8483 006 002 049
	24 (3 x 8)	8	a + b + c fully loaded	20 8483 024 002 001	20 8483 024 002 025	20 8483 024 002 049
	42 (3 x 14)	6	a + b + c fully loaded	20 8483 042 002 001	20 8483 042 002 025	20 8483 042 002 049
	60 (3 x 20)	4	a + b + c fully loaded	20 8483 060 002 001	20 8483 060 002 025	20 8483 060 002 049
	78 (2 x 28)	2	a + b + c fully loaded	20 8483 078 002 001	20 8483 078 002 025	20 8483 078 002 049
13.0 mm (Y) Straight	6 (3 x 2)	10	a + b + c fully loaded	20 8483 006 003 001	20 8483 006 003 025	20 8483 006 003 049
	24 (3 x 8)	8	a + b + c fully loaded	20 8483 024 003 001	20 8483 024 003 025	20 8483 024 003 049
	42 (3 x 14)	6	a + b + c fully loaded	20 8483 042 003 001	20 8483 042 003 025	20 8483 042 003 049
	60 (3 x 20)	4	a + b + c fully loaded	20 8483 060 003 001	20 8483 060 003 025	20 8483 060 003 049
	78 (2 x 28)	2	a + b + c fully loaded	20 8483 078 003 001	20 8483 078 003 025	20 8483 078 003 049

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
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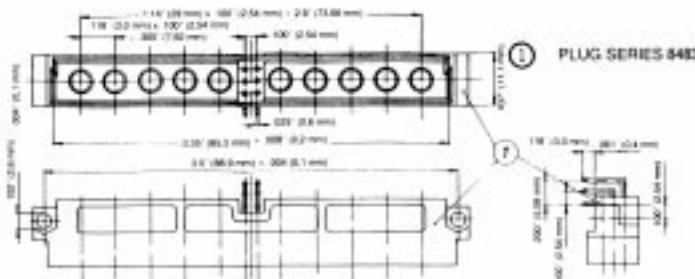
ELCO

DIN 41612 Connectors



Series 8483 - Male Style M - a + c Loaded - 3 Rows (3 x 2, 8, 14, 20 or 28) - .100 Pitch

Dimensions



Contact Design and Termination Length	No. of Cavities for Single Positions	No. of Cavities for Special Positions	Loading Description	Part Number Performance classes according to DIN 41612		
				III	II	I
3.0 mm (Y) Straight	6 (3 x 2)	10	a + c fully loaded	10 8483 006 001 002	10 8483 006 001 026	10 8483 006 001 050
	24 (3 x 8)	8	a + c fully loaded	10 8483 024 001 002	10 8483 024 001 026	10 8483 024 001 050
	42 (3 x 14)	6	a + c fully loaded	10 8483 042 001 002	10 8483 042 001 026	10 8483 042 001 050
	60 (3 x 20)	4	a + c fully loaded	10 8483 060 001 002	10 8483 060 001 026	10 8483 060 001 050
	78 (3 x 28)	2	a + c fully loaded	10 8483 078 001 002	10 8483 078 001 026	10 8483 078 001 050
11.4 mm (Y) Straight	6 (3 x 2)	10	a + c fully loaded	10 8483 006 002 002	10 8483 006 002 026	10 8483 006 002 050
	24 (3 x 8)	8	a + c fully loaded	10 8483 024 002 002	10 8483 024 002 026	10 8483 024 002 050
	42 (3 x 14)	6	a + c fully loaded	10 8483 042 002 002	10 8483 042 002 026	10 8483 042 002 050
	60 (3 x 20)	4	a + c fully loaded	10 8483 060 002 002	10 8483 060 002 026	10 8483 060 002 050
	78 (3 x 28)	2	a + c fully loaded	10 8483 078 002 002	10 8483 078 002 026	10 8483 078 002 050
3.0 mm (Y) Right Angled	6 (3 x 2)	10	a + c fully loaded	10 8483 006 003 002	10 8483 006 003 026	10 8483 006 003 050
	24 (3 x 8)	8	a + c fully loaded	10 8483 024 003 002	10 8483 024 003 026	10 8483 024 003 050
	42 (3 x 14)	6	a + c fully loaded	10 8483 042 003 002	10 8483 042 003 026	10 8483 042 003 050
	60 (3 x 20)	4	a + c fully loaded	10 8483 060 003 002	10 8483 060 003 026	10 8483 060 003 050
	78 (3 x 28)	2	a + c fully loaded	10 8483 078 003 002	10 8483 078 003 026	10 8483 078 003 050
11.3mm (Y) Right Angled	6 (3 x 2)	10	a + c fully loaded	10 8483 006 004 002	10 8483 006 004 026	10 8483 006 004 050
	24 (3 x 8)	8	a + c fully loaded	10 8483 024 004 002	10 8483 024 004 026	10 8483 024 004 050
	42 (3 x 14)	6	a + c fully loaded	10 8483 042 004 002	10 8483 042 004 026	10 8483 042 004 050
	60 (3 x 20)	4	a + c fully loaded	10 8483 060 004 002	10 8483 060 004 026	10 8483 060 004 050
	78 (3 x 28)	2	a + c fully loaded	10 8483 078 004 002	10 8483 078 004 026	10 8483 078 004 050
Solder eyelet rows a + c 4.8 mm row b 7.5 mm	6 (3 x 2)	10	a + c fully loaded	10 8483 006 005 002	10 8483 006 005 026	10 8483 006 005 050
	24 (3 x 8)	8	a + c fully loaded	10 8483 024 005 002	10 8483 024 005 026	10 8483 024 005 050
	42 (3 x 14)	6	a + c fully loaded	10 8483 042 005 002	10 8483 042 005 026	10 8483 042 005 050
	60 (3 x 20)	4	a + c fully loaded	10 8483 060 005 002	10 8483 060 005 026	10 8483 060 005 050
	78 (3 x 28)	2	a + c fully loaded	10 8483 078 005 002	10 8483 078 005 026	10 8483 078 005 050
Solder hole rows a + c 6.1 mm row b 8.8 mm	6 (3 x 2)	10	a + c fully loaded	10 8483 006 006 002	10 8483 006 006 026	10 8483 006 006 050
	24 (3 x 8)	8	a + c fully loaded	10 8483 024 006 002	10 8483 024 006 026	10 8483 024 006 050
	42 (3 x 14)	6	a + c fully loaded	10 8483 042 006 002	10 8483 042 006 026	10 8483 042 006 050
	60 (3 x 20)	4	a + c fully loaded	10 8483 060 006 002	10 8483 060 006 026	10 8483 060 006 050
	78 (3 x 28)	2	a + c fully loaded	10 8483 078 006 002	10 8483 078 006 026	10 8483 078 006 050

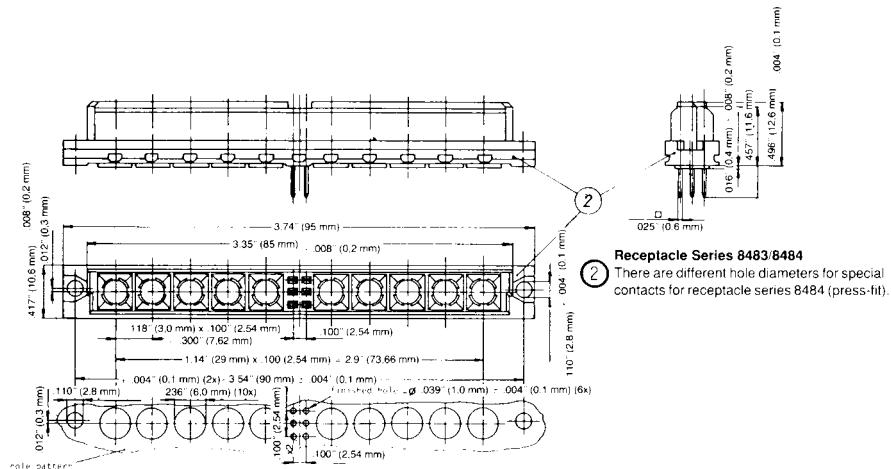
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DIN 41612 Connectors



Series 8483 - Female Style M - a + c Loaded - 3 Rows (3 x 2, 8, 14, 20 or 28) - .100 Pitch

Dimensions



Contact Arrangement

variations receivable (mating side)												max pin counts
31	28	25	22	19	17	16	14	11	8	5	2	
a	○	○	○	○	○	○	○	○	○	○	○	78 + max. 2 special contacts
b	○	○	○	○	○	○	○	○	○	○	○	60 + max. 4 special contacts
c	○	○	○	○	○	○	○	○	○	○	○	42 + max. 6 special contacts
a	○	○	○	○	○	○	○	○	○	○	○	24 + max. 8 special contacts
b	○	○	○	○	○	○	○	○	○	○	○	6 + max. 10 special contacts

Contact Design and Termination Length	No. of Cavities for Single Positions	No. of Cavities for Special Positions	Loading Description	Part Number Performance classes according to DIN 41612		
				III	II	I
4.5 mm (Y) Straight	6 (3 x 2)	10	a + c fully loaded	20 8483 006 001 002	20 8483 006 001 026	20 8483 006 001 050
	24 (3 x 8)	8	a + c fully loaded	20 8483 024 001 002	20 8483 024 001 026	20 8483 024 001 050
	42 (3 x 14)	6	a + c fully loaded	20 8483 042 001 002	20 8483 042 001 026	20 8483 042 001 050
	60 (3 x 20)	4	a + c fully loaded	20 8483 060 001 002	20 8483 060 001 026	20 8483 060 001 050
	78 (2 x 28)	2	a + c fully loaded	20 8483 078 001 002	20 8483 078 001 026	20 8483 078 001 050
2.9 mm (Y) Straight	6 (3 x 2)	10	a + c fully loaded	20 8483 006 002 002	20 8483 006 002 026	20 8483 006 002 050
	24 (3 x 8)	8	a + c fully loaded	20 8483 024 002 002	20 8483 024 002 026	20 8483 024 002 050
	42 (3 x 14)	6	a + c fully loaded	20 8483 042 002 002	20 8483 042 002 026	20 8483 042 002 050
	60 (3 x 20)	4	a + c fully loaded	20 8483 060 002 002	20 8483 060 002 026	20 8483 060 002 050
	78 (2 x 28)	2	a + c fully loaded	20 8483 078 002 002	20 8483 078 002 026	20 8483 078 002 050
13.0 mm (Y) Right Angled	6 (3 x 2)	10	a + c fully loaded	20 8483 006 003 002	20 8483 006 003 026	20 8483 006 003 050
	24 (3 x 8)	8	a + c fully loaded	20 8483 024 003 002	20 8483 024 003 026	20 8483 024 003 050
	42 (3 x 14)	6	a + c fully loaded	20 8483 042 003 002	20 8483 042 003 026	20 8483 042 003 050
	60 (3 x 20)	4	a + c fully loaded	20 8483 060 003 002	20 8483 060 003 026	20 8483 060 003 050
	78 (2 x 28)	2	a + c fully loaded	20 8483 078 003 002	20 8483 078 003 026	20 8483 078 003 050

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #202. Visit our website <http://www.avxcorp.com>

ELCO

DIN 41612 Connectors



Series 8489 – Style M Contacts - Special Contacts for Style M Connectors

Coax Plug Contact for Receptacle Series 8483/8484

Dimensions: inches/millimeters

Variation	Termination		Dimensions			Order Code
	Outer Conductor	Inner Conductor	ØA	ØB	ØC	
	CRIMP	SOLDER	.041/1.05	.067/1.70	.089/2.25	60 8489 020 001 (049)
	CRIMP	SOLDER	.067/1.70	.106/2.70	.126/3.20	60 8489 020 002 (049)
	CRIMP	SOLDER	.067/1.70	.106/2.70	.141/3.58	60 8489 020 003 (049)
	SOLDER	SOLDER	.051/1.30	.075/1.90	.087/2.20	60 8489 020 004 (049)
	SOLDER	SOLDER	.089/2.25	.114/2.90	.126/3.20	60 8489 020 005 (049)
	CRIMP	SOLDER	.041/1.05	.067/1.70	.089/2.25	60 8489 020 006 (049)
	CRIMP	SOLDER	.067/1.70	.106/2.70	.126/3.20	60 8489 020 007 (049)
	CRIMP	SOLDER	.067/1.70	.106/2.70	.140/3.55	60 8489 020 008 (049)
	CRIMP	SOLDER	.041/1.05	.067/1.70	.089/2.25	60 8489 020 009 (049)
	CRIMP	SOLDER	.067/1.70	.106/2.70	.126/3.20	60 8489 020 010 (049)
	CRIMP	SOLDER	.067/1.70	.106/2.70	.140/3.55	60 8489 020 011 (049)
	P.C. (1)	P.C. (1)				60 8489 020 012 (049)

(1) Not applicable for receptacles with P.C. and Press-fit termination.

Coax Receptacle Contact for Plug Series 8483

Dimensions: inches/millimeters

Variation	Termination		Dimensions			Order Code
	Outer Conductor	Inner Conductor	ØA	ØB	ØC	
	CRIMP	SOLDER	.067/1.70	.106/2.70	.140/3.55	60 8489 030 001 (049)
	CRIMP	SOLDER	.067/1.70	.106/2.70	.126/3.20	60 8489 030 002 (049)
	CRIMP	SOLDER	.041/1.05	.067/1.70	.089/2.25	60 8489 030 003 (049)
	SOLDER	SOLDER	.089/2.25	.114/2.90	.126/3.20	60 8489 030 004 (049)
	SOLDER	SOLDER	.051/1.30	.075/1.90	.087/2.20	60 8489 030 005 (049)
	CRIMP	SOLDER	.067/1.70	.106/2.70	.126/3.20	60 8489 030 006 (049)
	CRIMP	SOLDER	.041/1.05	.067/1.70	.089/2.25	60 8489 030 007 (049)
	P.C.	P.C.				60 8489 030 008 (049)

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #203. Visit our website <http://www.avxcorp.com>

DIN 41612 Connectors



Series 8489 – Style M Contacts - Special Contacts for Style M Connectors

High Voltage Plug Contact for Receptacle Series 8483/8484

Variation	Termination	Performance	Ordering Code
			Perf. Class I
	SOLDER CABLE OUTLET STRAIGHT AWG 20 maximum	2.8 KV max	60 8489 070 001 049
	SOLDER CABLE OUTLET 90° AWG 20 maximum	2.8 KV max	60 8489 070 002 049

High Voltage Receptacle Contact for Plug Series 8483/8484

Variation	Termination	Performance	Ordering Code
			Perf. Class I
	SOLDER CABLE OUTLET STRAIGHT AWG 20 maximum	2.8 KV max	60 8489 060 001 049
	SOLDER CABLE OUTLET 90° AWG 20 maximum	2.8 KV max	60 8489 060 002 049

High Power Plug Contact for Plug Series 8483/8484

Variation	Termination	ØA*	Performance	Ordering Code
	SOLDER	.189 (4.80)	40 Ampere max.	60 8489 040 001 049
	SOLDER	.138 (3.50)	30 Ampere max.	60 8489 040 002 049
	SOLDER	.110 (2.80)	20 Ampere max.	60 8489 040 003 049
	SOLDER	.067 (1.70)	10 Ampere max.	60 8489 040 004 049
	CRIMP	.189 (4.80)	40 Ampere max.	60 8489 040 005 049
	CRIMP	.138 (3.50)	30 Ampere max.	60 8489 040 006 049
	CRIMP	.110 (2.80)	20 Ampere max.	60 8489 040 007 049
	CRIMP	.067 (1.70)	10 Ampere max.	60 8489 040 008 049
	P.C.	Contact	40 Ampere max.	60 8489 040 009 049

High Power Receptacle Contact for Receptacle Series 8483/8484

Variation	Termination	ØA*	Performance	Ordering Code
	SOLDER	.189 (4.80)	40 Ampere max.	60 8489 050 001 049
	SOLDER	.138 (3.50)	30 Ampere max.	60 8489 050 002 049
	SOLDER	.110 (2.80)	20 Ampere max.	60 8489 050 003 049
	SOLDER	.067 (1.70)	10 Ampere max.	60 8489 050 004 049
	CRIMP	.189 (4.80)	40 Ampere max.	60 8489 050 005 049
	CRIMP	.138 (3.50)	30 Ampere max.	60 8489 050 006 049
	CRIMP	.110 (2.80)	20 Ampere max.	60 8489 050 007 049
	CRIMP	.067 (1.70)	10 Ampere max.	60 8489 050 008 049

*ØA: inner diameter of contact sleeve.

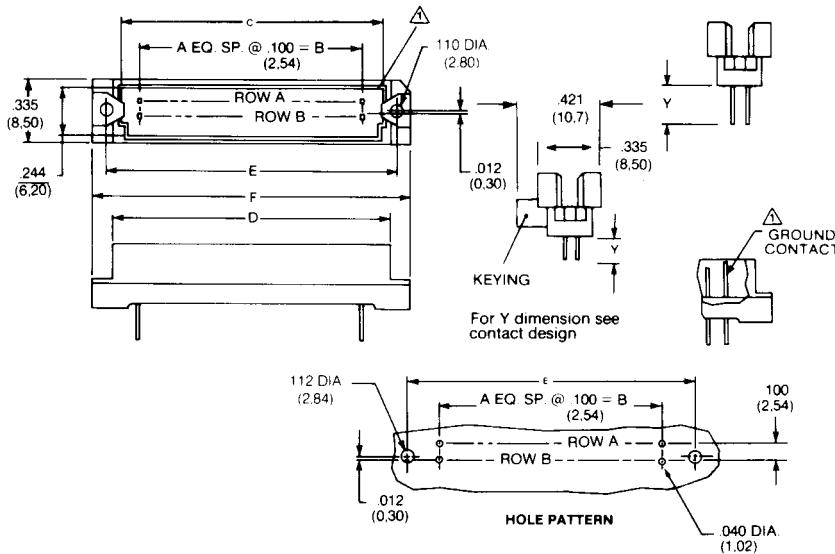
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DIN 41612 Connectors



Series 8477 - Male Style 1/2 Q - 2 Rows (2 x 16) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E	F
032	2 (2 x 16)	15	1.500 (38.10)	1.760 (44.70)	1.862 (47.29)	1.968 (49.99)	2.162 (54.91)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
2.9 mm (Y) Straight	32	a + b fully loaded	10 8477 032 001 001	10 8477 032 001 025	10 8477 032 001 049
	16	a + b even loading	10 8477 032 001 007	10 8477 032 001 031	10 8477 032 001 055
	16	a loading only	10 8477 032 001 003	10 8477 032 001 027	10 8477 032 001 051
	30 + 2	fully loaded + ground	10 9477 032 101 001	10 8477 032 101 025	10 8477 032 101 049
4.5 mm (Y) Straight	32	a + b fully loaded	10 8477 032 002 001	10 8477 032 002 025	10 8477 032 002 049
	16	a + b even loading	10 8477 032 002 007	10 8477 032 002 031	10 8477 032 002 055
	16	a loading only	10 8477 032 002 003	10 8477 032 002 027	10 8477 032 002 051
	30 + 2	fully loaded + ground	10 8477 032 102 001	10 8477 032 102 025	10 8477 032 102 049
9.5 mm (Y) Straight	32	a + b fully loaded	10 8477 032 005 001	10 8477 032 005 025	10 8477 032 005 049
	16	a + b even loading	10 8477 032 005 007	10 8477 032 005 031	10 8477 032 005 055
	16	a loading only	10 8477 032 005 003	10 8477 032 005 027	10 8477 032 005 051
13.0 mm (Y) Straight	32	a + b fully loaded	10 8477 032 006 001	10 8477 032 006 025	10 8477 032 006 049
	16	a + b even loading	10 8477 032 006 007	10 8477 032 006 031	10 8477 032 006 055
	16	a loading only	10 8477 032 006 003	10 8477 032 006 027	10 8477 032 006 051
14.5 mm (Y) Straight	32	a + b fully loaded	10 8477 032 007 001	10 8477 032 007 025	10 8477 032 007 049
	16	a + b even loading	10 8477 032 007 007	10 8477 032 007 031	10 8477 032 007 055
	16	a loading only	10 8477 032 007 003	10 8477 032 007 027	10 8477 032 007 051
8.8, 11.5, 8.8 mm (Y) Solder Hole	32	a + b fully loaded	10 8477 032 009 001	10 8477 032 009 025	10 8477 032 009 049
	16	a + b even loading	10 8477 032 009 007	10 8477 032 009 031	10 8477 032 009 055
	16	a loading only	10 8477 032 009 003	10 8477 032 009 027	10 8477 032 009 051
7.5, 10.2, 7.5 mm (Y) Solder Loop	32	a + b fully loaded	10 8477 032 010 001	10 8477 032 010 025	10 8477 032 010 049
	16	a + b even loading	10 8477 032 010 007	10 8477 032 010 031	10 8477 032 010 055
	16	a loading only	10 8477 032 010 003	10 8477 032 010 027	10 8477 032 010 051

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #205. Visit our website <http://www.avxcorp.com>

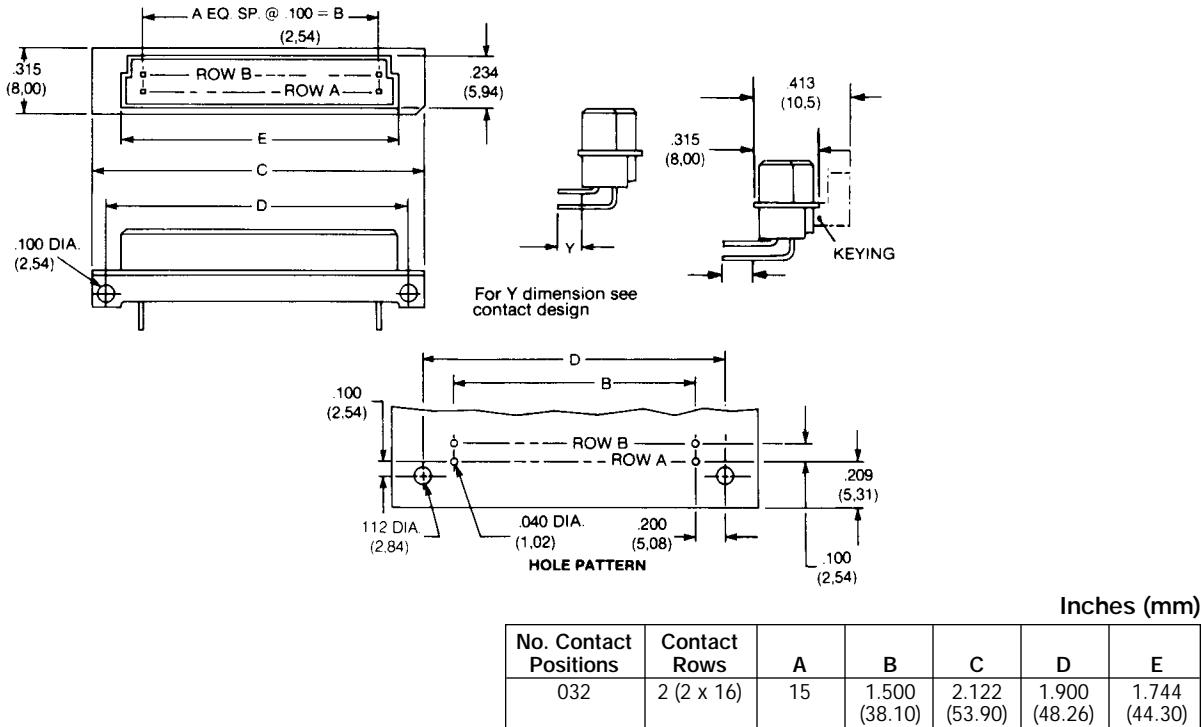
ELCO

DIN 41612 Connectors



Series 8477 - Female Style $\frac{1}{2}$ Q - 2 Rows (2 x 16) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled	32	a + b fully loaded	20 8477 032 002 001	20 8477 032 002 025	20 8477 032 002 049
	16	a + b all even loading	20 8477 032 002 007	20 8477 032 002 031	20 8477 032 002 055
	16	a loading only	20 8477 032 002 003	20 8477 032 002 027	20 8477 032 002 051
0.3 x 0.79 mm Post Profile 3.0 mm (Y) Right Angled	32	a + b fully loaded	20 8477 032 006 001	20 8477 032 006 025	20 8477 032 006 049
	16	a + b all even loading	20 8477 032 006 007	20 8477 032 006 031	20 8477 032 006 055
	16	a loading only	20 8477 032 006 003	20 8477 032 006 027	20 8477 032 006 051
0.6 x 0.6 mm Post Profile 11.43 mm (Y) Right Angled	32	a + b fully loaded	20 8477 032 008 001	20 8477 032 008 025	20 8477 032 008 049
	16	a + b all even loading	20 8477 032 008 007	20 8477 032 008 031	20 8477 032 008 055
	16	a loading only	20 8477 032 008 003	20 8477 032 008 027	20 8477 032 008 051
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Right Angled	32	a + b fully loaded	20 8477 032 009 001	20 8477 032 009 025	20 8477 032 009 049
	16	a + b all even loading	20 8477 032 009 007	20 8477 032 009 031	20 8477 032 009 055
	16	a loading only	20 8477 032 009 003	20 8477 032 009 027	20 8477 032 009 051
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Right Angled	32	a + b fully loaded	20 8477 032 012 001	20 8477 032 012 025	20 8477 032 012 049
	16	a + b all even loading	20 8477 032 012 007	20 8477 032 012 031	20 8477 032 012 055
	16	a loading only	20 8477 032 012 003	20 8477 032 012 027	20 8477 032 012 051

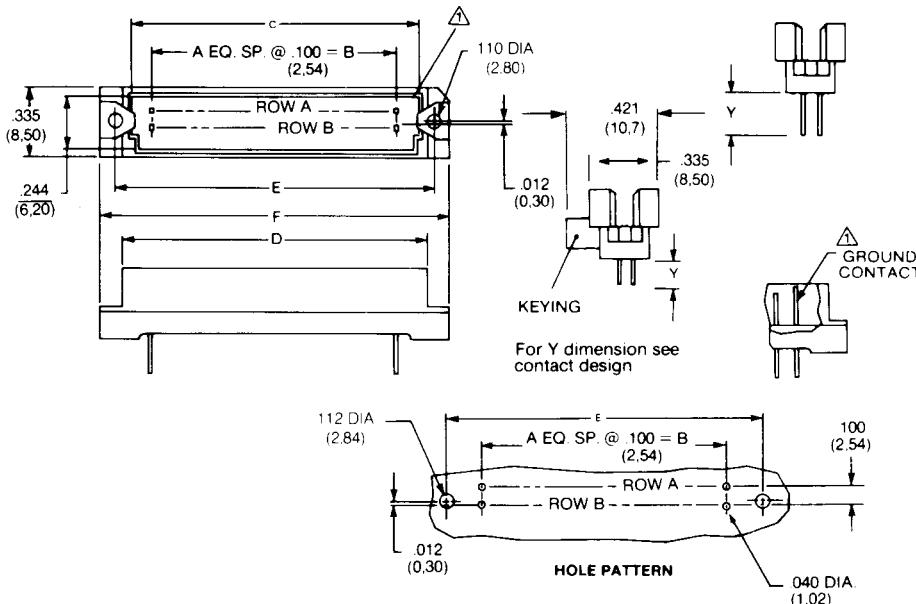
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DIN 41612 Connectors



Series 8477 - Male Style Q - 2 Rows (2 x 32) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E	F
064	2 (2 x 32)	31	3.100 (78.74)	3.358 (85.29)	3.461 (87.91)	3.543 (89.99)	3.736 (94.89)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
2.9 mm (Y) Straight	64	a + b fully loaded	10 8477 064 001 001	10 8477 064 001 025	10 8477 064 001 049
	32	a + b even loading	10 8477 064 001 007	10 8477 064 001 031	10 8477 064 001 055
	32	a loading only	10 8477 064 001 003	10 8477 064 001 027	10 8477 064 001 051
	62 + 2	fully loaded + ground	10 9477 064 101 001	10 8477 064 101 025	10 8477 064 101 049
4.5 mm (Y) Straight	64	a + b fully loaded	10 8477 064 002 001	10 8477 064 002 025	10 8477 064 002 049
	32	a + b even loading	10 8477 064 002 007	10 8477 064 002 031	10 8477 064 002 055
	32	a loading only	10 8477 064 002 003	10 8477 064 002 027	10 8477 064 002 051
	62 + 2	fully loaded + ground	10 8477 064 102 001	10 8477 064 102 025	10 8477 064 102 049
9.5 mm (Y) Straight	64	a + b fully loaded	10 8477 064 005 001	10 8477 064 005 025	10 8477 064 005 049
	32	a + b even loading	10 8477 064 005 007	10 8477 064 005 031	10 8477 064 005 055
	32	a loading only	10 8477 064 005 003	10 8477 064 005 027	10 8477 064 005 051
13.0 mm (Y) Straight	64	a + b fully loaded	10 8477 064 006 001	10 8477 064 006 025	10 8477 064 006 049
	32	a + b even loading	10 8477 064 006 007	10 8477 064 006 031	10 8477 064 006 055
	32	a loading only	10 8477 064 006 003	10 8477 064 006 027	10 8477 064 006 051
14.5 mm (Y) Straight	64	a + b fully loaded	10 8477 064 007 001	10 8477 064 007 025	10 8477 064 007 049
	32	a + b even loading	10 8477 064 007 007	10 8477 064 007 031	10 8477 064 007 055
	32	a loading only	10 8477 064 007 003	10 8477 064 007 027	10 8477 064 007 051
8.8, 11.5, 8.8 mm (Y) Solder Hole	64	a + b fully loaded	10 8477 064 009 001	10 8477 064 009 025	10 8477 064 009 049
	32	a + b even loading	10 8477 064 009 007	10 8477 064 009 031	10 8477 064 009 055
	32	a loading only	10 8477 064 009 003	10 8477 064 009 027	10 8477 064 009 051
7.5, 10.2, 7.5 mm (Y) Solder Loop	64	a + b fully loaded	10 8477 064 010 001	10 8477 064 010 025	10 8477 064 010 049
	32	a + b even loading	10 8477 064 010 007	10 8477 064 010 031	10 8477 064 010 055
	32	a loading only	10 8477 064 010 003	10 8477 064 010 027	10 8477 064 010 051

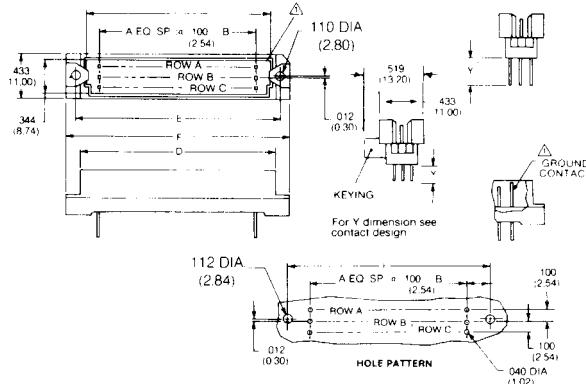
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DIN 41612 Connectors



Series 8477 - Male Style $\frac{1}{3}$ R - 3 Rows (3 x 10) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E	F
030	3 (3 x 10)	9	0.900 (22.86)	1.159 (29.44)	1.265 (32.12)	1.368 (34.76)	1.565 (39.76)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
2.9 mm (Y) Straight	30	a + b + c fully loaded	10 8477 030 001 001	10 8477 030 001 025	10 8477 030 001 049
	20	a + c fully loaded	10 8477 030 001 002	10 8477 030 001 026	10 8477 030 001 050
	10	a + c even loading	10 8477 030 001 009	10 8477 030 001 033	10 8477 030 001 057
	10	a loading only	10 8477 030 001 003	10 8477 030 001 027	10 8477 030 001 051
	28 + 2	fully loaded + ground	10 9477 030 101 001	10 8477 030 101 025	10 8477 030 101 049
4.5 mm (Y) Straight	30	a + b + c fully loaded	10 8477 030 002 001	10 8477 030 002 025	10 8477 030 002 049
	20	a + c fully loaded	10 8477 030 002 002	10 8477 030 002 026	10 8477 030 002 050
	10	a + c even loading	10 8477 030 002 009	10 8477 030 002 033	10 8477 030 002 057
	10	a loading only	10 8477 030 002 003	10 8477 030 002 027	10 8477 030 002 051
	28 + 2	fully loaded + ground	10 8477 030 102 001	10 8477 030 102 025	10 8477 030 102 049
9.5 mm (Y) Straight	30	a + b + c fully loaded	10 8477 030 005 001	10 8477 030 005 025	10 8477 030 005 049
	20	a + c fully loaded	10 8477 030 005 002	10 8477 030 005 026	10 8477 030 005 050
	10	a + c even loading	10 8477 030 005 009	10 8477 030 005 033	10 8477 030 005 057
	10	a loading only	10 8477 030 005 003	10 8477 030 005 027	10 8477 030 005 051
	28 + 2	fully loaded + ground	10 8477 030 106 001	10 8477 030 106 025	10 8477 030 106 049
13.0 mm (Y) Straight	30	a + b + c fully loaded	10 8477 030 006 001	10 8477 030 006 025	10 8477 030 006 049
	20	a + c fully loaded	10 8477 030 006 002	10 8477 030 006 026	10 8477 030 006 050
	10	a + c even loading	10 8477 030 006 009	10 8477 030 006 033	10 8477 030 006 057
	10	a loading only	10 8477 030 006 003	10 8477 030 006 027	10 8477 030 006 051
	28 + 2	fully loaded + ground	10 8477 030 106 001	10 8477 030 106 025	10 8477 030 106 049
14.5 mm (Y) Straight	96	a + b + c fully loaded	10 8477 030 007 001	10 8477 030 007 025	10 8477 030 007 049
	64	a + c fully loaded	10 8477 030 007 002	10 8477 030 007 026	10 8477 030 007 050
	32	a + c even loading	10 8477 030 007 009	10 8477 030 007 033	10 8477 030 007 057
	32	a loading only	10 8477 030 007 003	10 8477 030 007 027	10 8477 030 007 051
	30	a + b + c fully loaded	10 8477 030 009 001	10 8477 030 009 025	10 8477 030 009 049
8.8, 11.5, 8.8 mm (Y) Solder Hole	20	a + c fully loaded	10 8477 030 009 002	10 8477 030 009 026	10 8477 030 009 050
	10	a + c even loading	10 8477 030 009 009	10 8477 030 009 033	10 8477 030 009 057
	10	a loading only	10 8477 030 009 003	10 8477 030 009 027	10 8477 030 009 051
	30	a + b + c fully loaded	10 8477 030 010 001	10 8477 030 010 025	10 8477 030 010 049
7.5, 10.2, 7.5 mm (Y) Solder Loop	20	a + c fully loaded	10 8477 030 010 002	10 8477 030 010 026	10 8477 030 010 050
	10	a + c even loading	10 8477 030 010 009	10 8477 030 010 033	10 8477 030 010 057
	10	a loading only	10 8477 030 010 003	10 8477 030 010 027	10 8477 030 010 051

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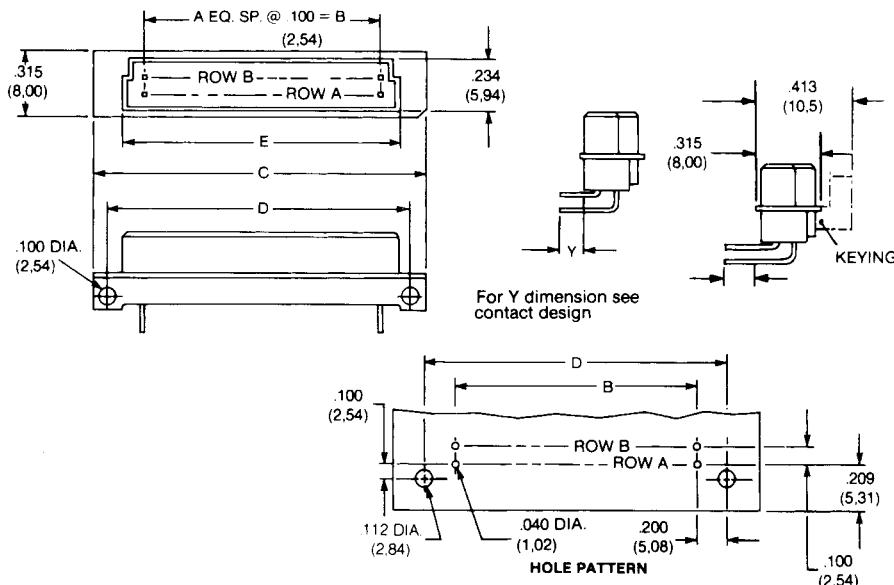
ELCO

DIN 41612 Connectors



Series 8477 - Female Style Q - 2 Rows (2 x 32) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
064	2 (2 x 32)	31	3.100 (78.74)	3.697 (93.90)	3.500 (88.90)	3.343 (84.91)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled	64	a + b fully loaded	20 8477 064 002 001	20 8477 064 002 025	20 8477 064 002 049
	32	a + b all even loading	20 8477 064 002 007	20 8477 064 002 031	20 8477 064 002 055
	32	a loading only	20 8477 064 002 003	20 8477 064 002 027	20 8477 064 002 051
0.3 x 0.79 mm Post Profile 3.0 mm (Y) Right Angled	64	a + b fully loaded	20 8477 064 006 001	20 8477 064 006 025	20 8477 064 006 049
	32	a + b all even loading	20 8477 064 006 007	20 8477 064 006 031	20 8477 064 006 055
	32	a loading only	20 8477 064 006 003	20 8477 064 006 027	20 8477 064 006 051
0.6 x 0.6 mm Post Profile 11.43 mm (Y) Right Angled	64	a + b fully loaded	20 8477 064 008 001	20 8477 064 008 025	20 8477 064 008 049
	32	a + b all even loading	20 8477 064 008 007	20 8477 064 008 031	20 8477 064 008 055
	32	a loading only	20 8477 064 008 003	20 8477 064 008 027	20 8477 064 008 051
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Right Angled	64	a + b fully loaded	20 8477 064 009 001	20 8477 064 009 025	20 8477 064 009 049
	32	a + b all even loading	20 8477 064 009 007	20 8477 064 009 031	20 8477 064 009 055
	32	a loading only	20 8477 064 009 003	20 8477 064 009 027	20 8477 064 009 051
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Right Angled	64	a + b fully loaded	20 8477 064 012 001	20 8477 064 012 025	20 8477 064 012 049
	32	a + b all even loading	20 8477 064 012 007	20 8477 064 012 031	20 8477 064 012 055
	32	a loading only	20 8477 064 012 003	20 8477 064 012 027	20 8477 064 012 051

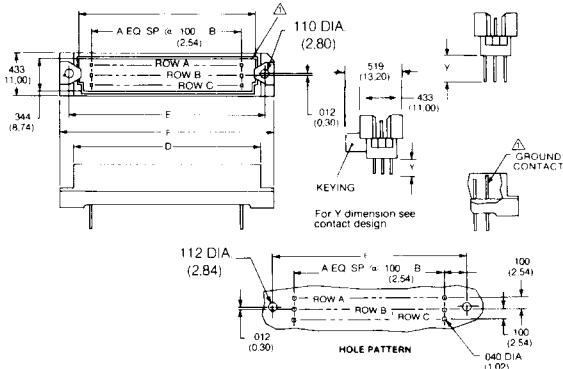
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DIN 41612 Connectors



Series 8477 - Male Style 1/2 R - 3 Rows (3 x 16) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E	F
048	3 (3 x 16)	15	1.500 (38.10)	1.760 (44.70)	1.862 (47.29)	1.968 (49.99)	2.162 (54.91)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
2.9 mm (Y) Straight	48	a + b + c fully loaded	10 8477 048 001 001	10 8477 048 001 025	10 8477 048 001 049
	32	a + c fully loaded	10 8477 048 001 002	10 8477 048 001 026	10 8477 048 001 050
	16	a + c even loading	10 8477 048 001 009	10 8477 048 001 033	10 8477 048 001 057
	16	a loading only	10 8477 048 001 003	10 8477 048 001 027	10 8477 048 001 051
	46 + 2	fully loaded + ground	10 9477 048 101 001	10 8477 048 101 025	10 8477 048 101 049
4.5 mm (Y) Straight	48	a + b + c fully loaded	10 8477 048 002 001	10 8477 048 002 025	10 8477 048 002 049
	32	a + c fully loaded	10 8477 048 002 002	10 8477 048 002 026	10 8477 048 002 050
	16	a + c even loading	10 8477 048 002 009	10 8477 048 002 033	10 8477 048 002 057
	16	a loading only	10 8477 048 002 003	10 8477 048 002 027	10 8477 048 002 051
	46 + 2	fully loaded + ground	10 8477 048 102 001	10 8477 048 102 025	10 8477 048 102 049
9.5 mm (Y) Straight	48	a + b + c fully loaded	10 8477 048 005 001	10 8477 048 005 025	10 8477 048 005 049
	32	a + c fully loaded	10 8477 048 005 002	10 8477 048 005 026	10 8477 048 005 050
	16	a + c even loading	10 8477 048 005 009	10 8477 048 005 033	10 8477 048 005 057
	16	a loading only	10 8477 048 005 003	10 8477 048 005 027	10 8477 048 005 051
	46 + 2	fully loaded + ground	10 8477 048 106 001	10 8477 048 106 025	10 8477 048 106 049
13.0 mm (Y) Straight	48	a + b + c fully loaded	10 8477 048 006 001	10 8477 048 006 025	10 8477 048 006 049
	32	a + c fully loaded	10 8477 048 006 002	10 8477 048 006 026	10 8477 048 006 050
	16	a + c even loading	10 8477 048 006 009	10 8477 048 006 033	10 8477 048 006 057
	16	a loading only	10 8477 048 006 003	10 8477 048 006 027	10 8477 048 006 051
	46 + 2	fully loaded + ground	10 8477 048 106 001	10 8477 048 106 025	10 8477 048 106 049
14.5 mm (Y) Straight	48	a + b + c fully loaded	10 8477 048 007 001	10 8477 048 007 025	10 8477 048 007 049
	32	a + c fully loaded	10 8477 048 007 002	10 8477 048 007 026	10 8477 048 007 050
	16	a + c even loading	10 8477 048 007 009	10 8477 048 007 033	10 8477 048 007 057
	16	a loading only	10 8477 048 007 003	10 8477 048 007 027	10 8477 048 007 051
	46 + 2	fully loaded + ground	10 8477 048 107 001	10 8477 048 107 025	10 8477 048 107 049
8.8, 11.5, 8.8 mm (Y) Solder Hole	48	a + b + c fully loaded	10 8477 048 009 001	10 8477 048 009 025	10 8477 048 009 049
	32	a + c fully loaded	10 8477 048 009 002	10 8477 048 009 026	10 8477 048 009 050
	16	a + c even loading	10 8477 048 009 009	10 8477 048 009 033	10 8477 048 009 057
	16	a loading only	10 8477 048 009 003	10 8477 048 009 027	10 8477 048 009 051
	46 + 2	fully loaded + ground	10 8477 048 109 001	10 8477 048 109 025	10 8477 048 109 049
7.5, 10.2, 7.5 mm (Y) Solder Loop	48	a + b + c fully loaded	10 8477 048 010 001	10 8477 048 010 025	10 8477 048 010 049
	32	a + c fully loaded	10 8477 048 010 002	10 8477 048 010 026	10 8477 048 010 050
	16	a + c even loading	10 8477 048 010 009	10 8477 048 010 033	10 8477 048 010 057
	16	a loading only	10 8477 048 010 003	10 8477 048 010 027	10 8477 048 010 051

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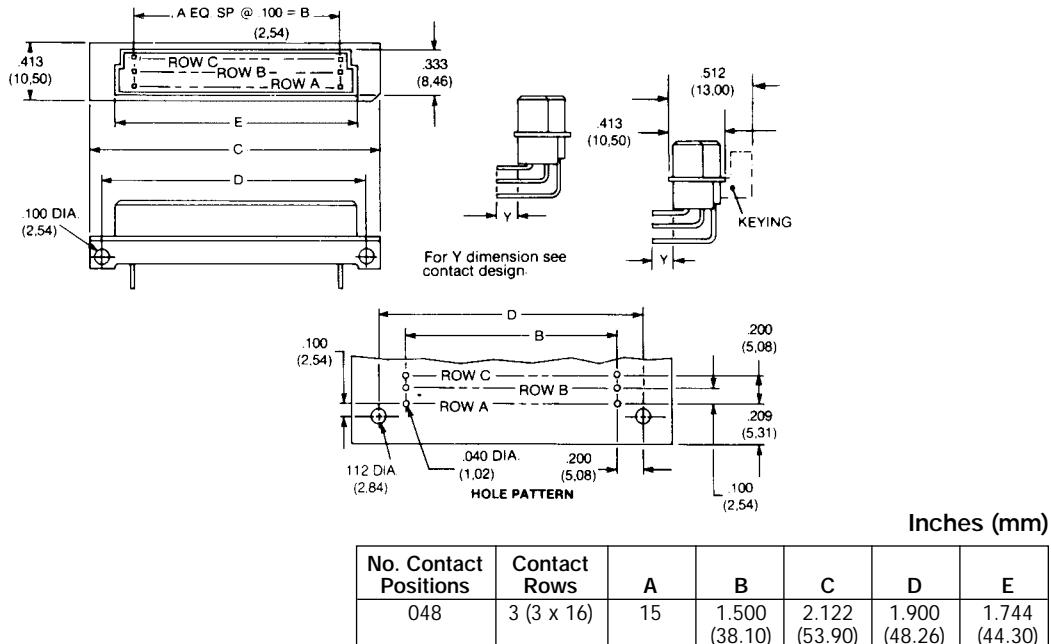
ELCO

DIN 41612 Connectors



Series 8477 - Female Style ½ R - 3 Rows (3 x 16) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled	48	a + b + c fully loaded	20 8477 048 002 001	20 8477 048 002 025	20 8477 048 002 049
	32	a + c fully loaded	20 8477 048 002 002	20 8477 048 002 026	20 8477 048 002 050
	16	a + c even loading	20 8477 048 002 009	20 8477 048 002 033	20 8477 048 002 057
	16	a loading only	20 8477 048 002 003	20 8477 048 002 027	20 8477 048 002 051
0.3 x 0.79 mm Post Profile 3.0 mm (Y) Right Angled	48	a + b + c fully loaded	20 8477 048 006 001	20 8477 048 006 025	20 8477 048 006 049
	32	a + c fully loaded	20 8477 048 006 002	20 8477 048 006 026	20 8477 048 006 050
	16	a + c even loading	20 8477 048 006 009	20 8477 048 006 033	20 8477 048 006 057
	16	a loading only	20 8477 048 006 003	20 8477 048 006 027	20 8477 048 006 051
0.6 x 0.6 mm Post Profile 11.43 mm (Y) Right Angled	48	a + b + c fully loaded	20 8477 048 008 001	20 8477 048 008 025	20 8477 048 008 049
	32	a + c fully loaded	20 8477 048 008 002	20 8477 048 008 026	20 8477 048 008 050
	16	a + c even loading	20 8477 048 008 009	20 8477 048 008 033	20 8477 048 008 057
	16	a loading only	20 8477 048 008 003	20 8477 048 008 027	20 8477 048 008 051
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Right Angled	48	a + b + c fully loaded	20 8477 048 009 001	20 8477 048 009 025	20 8477 048 009 049
	32	a + c fully loaded	20 8477 048 009 002	20 8477 048 009 026	20 8477 048 009 050
	16	a + c even loading	20 8477 048 009 009	20 8477 048 009 033	20 8477 048 009 057
	16	a loading only	20 8477 048 009 003	20 8477 048 009 027	20 8477 048 009 051
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Right Angled	48	a + b + c fully loaded	20 8477 048 012 001	20 8477 048 012 025	20 8477 048 012 049
	32	a + c fully loaded	20 8477 048 012 002	20 8477 048 012 026	20 8477 048 012 050
	16	a + c even loading	20 8477 048 012 009	20 8477 048 012 033	20 8477 048 012 057
	16	a loading only	20 8477 048 012 003	20 8477 048 012 027	20 8477 048 012 051

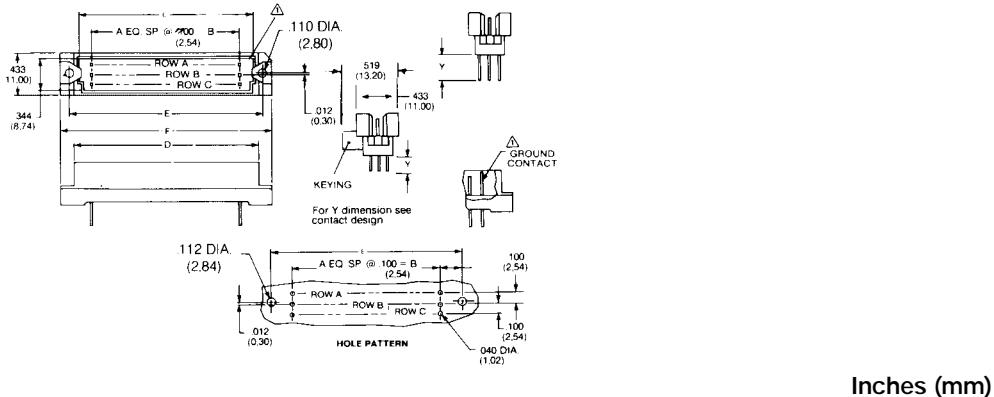
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DIN 41612 Connectors



Series 8477 - Male Style R - 3 Rows (3 x 32) Inverted - .100 Pitch

Dimensions



No. Contact Positions	Contact Rows	A	B	C	D	E	F
096	3 (3 x 32)	31	3.100 (78.74)	3.358 (85.29)	3.461 (87.91)	3.543 (89.99)	3.736 (94.89)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
2.9 mm (Y) Straight	96	a + b + c fully loaded	10 8477 096 001 001	10 8477 096 001 025	10 8477 096 001 049
	64	a + c fully loaded	10 8477 096 001 002	10 8477 096 001 026	10 8477 096 001 050
	32	a + c even loading	10 8477 096 001 009	10 8477 096 001 033	10 8477 096 001 057
	32	a loading only	10 8477 096 001 003	10 8477 096 001 027	10 8477 096 001 051
	94 + 2	fully loaded + ground	10 9477 096 101 001	10 8477 096 101 025	10 8477 096 101 049
4.5 mm (Y) Straight	96	a + b + c fully loaded	10 8477 096 002 001	10 8477 096 002 025	10 8477 096 002 049
	64	a + c fully loaded	10 8477 096 002 002	10 8477 096 002 026	10 8477 096 002 050
	32	a + c even loading	10 8477 096 002 009	10 8477 096 002 033	10 8477 096 002 057
	32	a loading only	10 8477 096 002 003	10 8477 096 002 027	10 8477 096 002 051
	94 + 2	fully loaded + ground	10 8477 096 102 001	10 8477 096 102 025	10 8477 096 102 049
9.5 mm (Y) Straight	96	a + b + c fully loaded	10 8477 096 005 001	10 8477 096 005 025	10 8477 096 005 049
	64	a + c fully loaded	10 8477 096 005 002	10 8477 096 005 026	10 8477 096 005 050
	32	a + c even loading	10 8477 096 005 009	10 8477 096 005 033	10 8477 096 005 057
	32	a loading only	10 8477 096 005 003	10 8477 096 005 027	10 8477 096 005 051
13.0 mm (Y) Straight	96	a + b + c fully loaded	10 8477 096 006 001	10 8477 096 006 025	10 8477 096 006 049
	64	a + c fully loaded	10 8477 096 006 002	10 8477 096 006 026	10 8477 096 006 050
	32	a + c even loading	10 8477 096 006 009	10 8477 096 006 033	10 8477 096 006 057
	32	a loading only	10 8477 096 006 003	10 8477 096 006 027	10 8477 096 006 051
	94 + 2	fully loaded + ground	10 8477 096 106 001	10 8477 096 106 025	10 8477 096 106 049
14.5 mm (Y) Straight	96	a + b + c fully loaded	10 8477 096 007 001	10 8477 096 007 025	10 8477 096 007 049
	64	a + c fully loaded	10 8477 096 007 002	10 8477 096 007 026	10 8477 096 007 050
	32	a + c even loading	10 8477 096 007 009	10 8477 096 007 033	10 8477 096 007 057
	32	a loading only	10 8477 096 007 003	10 8477 096 007 027	10 8477 096 007 051
8.8, 11.5, 8.8 mm (Y) Solder Hole	96	a + b + c fully loaded	10 8477 096 009 001	10 8477 096 009 025	10 8477 096 009 049
	64	a + c fully loaded	10 8477 096 009 002	10 8477 096 009 026	10 8477 096 009 050
	32	a + c even loading	10 8477 096 009 009	10 8477 096 009 033	10 8477 096 009 057
	32	a loading only	10 8477 096 009 003	10 8477 096 009 027	10 8477 096 009 051
7.5, 10.2, 7.5 mm (Y) Solder Loop	96	a + b + c fully loaded	10 8477 096 010 001	10 8477 096 010 025	10 8477 096 010 049
	64	a + c fully loaded	10 8477 096 010 002	10 8477 096 010 026	10 8477 096 010 050
	32	a + c even loading	10 8477 096 010 009	10 8477 096 010 033	10 8477 096 010 057
	32	a loading only	10 8477 096 010 003	10 8477 096 010 027	10 8477 096 010 051

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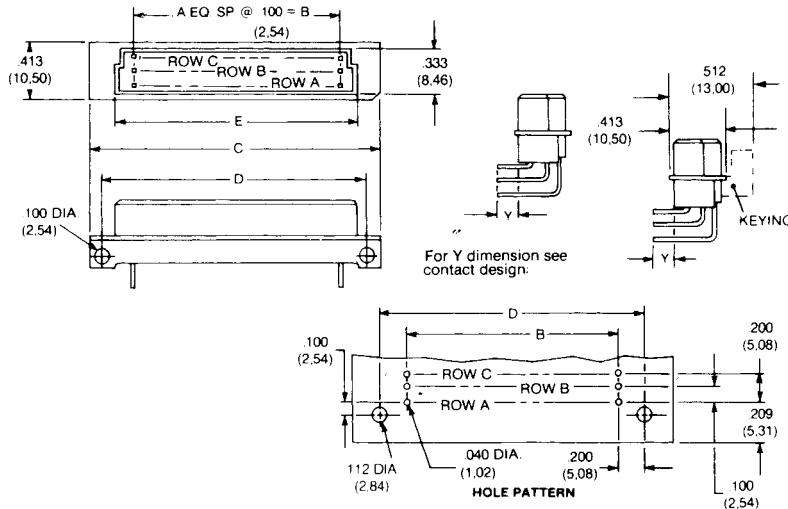
ELCO

DIN 41612 Connectors



Series 8477 - Female Style R - 3 Rows (3 x 32) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
096	3 (3 x 32)	31	3.100 (78.74)	3.367 (93.90)	3.500 (88.90)	3.343 (84.91)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled	96	a + b + c fully loaded	20 8477 096 002 001	20 8477 096 002 025	20 8477 096 002 049
	64	a + c fully loaded	20 8477 096 002 002	20 8477 096 002 026	20 8477 096 002 050
	32	a + c even loading	20 8477 096 002 009	20 8477 096 002 033	20 8477 096 002 057
	32	a loading only	20 8477 096 002 003	20 8477 096 002 027	20 8477 096 002 051
0.3 x 0.79 mm Post Profile 3.0 mm (Y) Right Angled	96	a + b + c fully loaded	20 8477 096 006 001	20 8477 096 006 025	20 8477 096 006 049
	64	a + c fully loaded	20 8477 096 006 002	20 8477 096 006 026	20 8477 096 006 050
	32	a + c even loading	20 8477 096 006 009	20 8477 096 006 033	20 8477 096 006 057
	32	a loading only	20 8477 096 006 003	20 8477 096 006 027	20 8477 096 006 051
11.43 mm (Y) Right Angled	96	a + b + c fully loaded	20 8477 096 008 001	20 8477 096 008 025	20 8477 096 008 049
	64	a + c fully loaded	20 8477 096 008 002	20 8477 096 008 026	20 8477 096 008 050
	32	a + c even loading	20 8477 096 008 009	20 8477 096 008 033	20 8477 096 008 057
	32	a loading only	20 8477 096 008 003	20 8477 096 008 027	20 8477 096 008 051
4.5 mm (Y) Right Angled	96	a + b + c fully loaded	20 8477 096 009 001	20 8477 096 009 025	20 8477 096 009 049
	64	a + c fully loaded	20 8477 096 009 002	20 8477 096 009 026	20 8477 096 009 050
	32	a + c even loading	20 8477 096 009 009	20 8477 096 009 033	20 8477 096 009 057
	32	a loading only	20 8477 096 009 003	20 8477 096 009 027	20 8477 096 009 051
4.5 mm (Y) Right Angled	96	a + b + c fully loaded	20 8477 096 012 001	20 8477 096 012 025	20 8477 096 012 049
	64	a + c fully loaded	20 8477 096 012 002	20 8477 096 012 026	20 8477 096 012 050
	32	a + c even loading	20 8477 096 012 009	20 8477 096 012 033	20 8477 096 012 057
	32	a loading only	20 8477 096 012 003	20 8477 096 012 027	20 8477 096 012 051

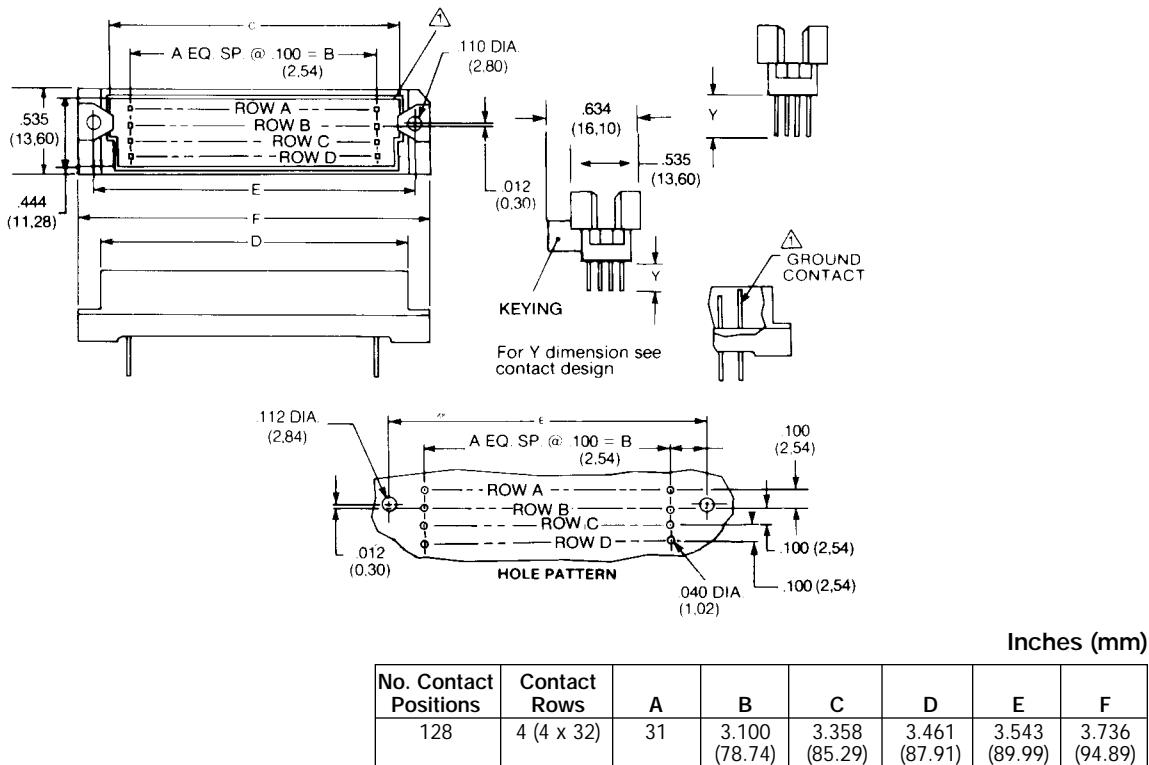
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DIN 41612 Connectors



Series 8477 – Male Style R Expanded - 4 Rows (4 x 32) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
2.9 mm (Y) Straight	128	a + b + c + d fully loaded	10 8477 128 001 001	10 8477 128 001 026	10 8477 128 001 049
	126 + 2	4 rows fully loaded + ground	10 8477 128 101 001	10 8477 128 101 025	10 8477 128 101 049
4.5 mm (Y) Straight	128	a + b + c + d fully loaded	10 8477 128 002 001	10 8477 128 002 025	10 8477 128 002 049
	126 + 2	4 rows fully loaded + ground	10 8477 128 102 001	10 8477 128 102 025	10 8477 128 102 049
9.5 mm (Y) Straight	128	a + b + c + d fully loaded	10 8477 128 005 001	10 8477 128 005 025	10 8477 128 005 049
	126 + 2	4 rows fully loaded + ground	10 8477 128 105 001	10 8477 128 105 025	10 8477 128 105 049
13.0 mm (Y) Straight	128	a + b + c + d fully loaded	10 8477 128 006 001	10 8477 128 006 025	10 8477 128 006 049
	126 + 2	4 rows fully loaded + ground	10 8477 128 106 001	10 8477 128 106 025	10 8477 128 106 049
14.5 mm (Y) Straight	128	a + b + c + d fully loaded	10 8477 128 007 001	10 8477 128 007 025	10 8477 128 007 049
	126 + 2	4 rows fully loaded + ground	10 8477 128 107 001	10 8477 128 107 025	10 8477 128 107 049

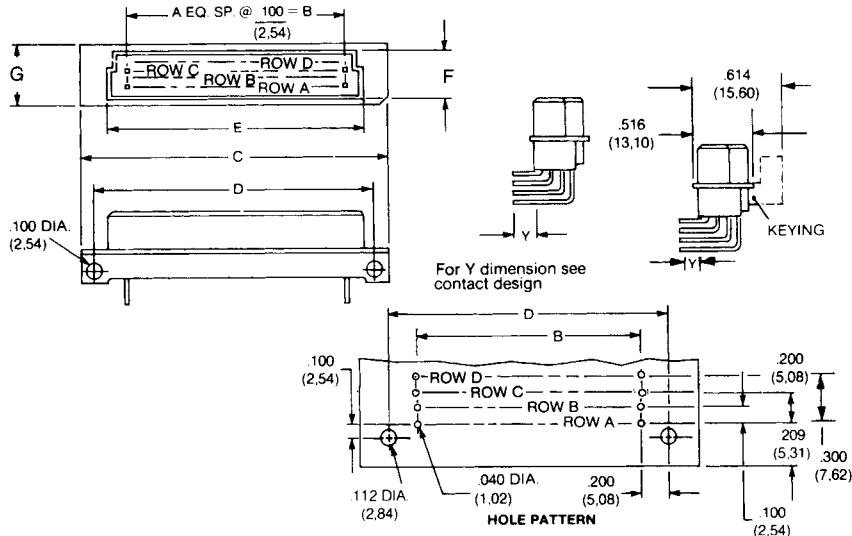
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DIN 41612 Connectors



**Series 8477 – Female Style R Expanded - 4 Rows (4 x 32)
Inverted - .100 Pitch**

Dimensions



Inches (mm)								
No. Contact Positions	Contact Rows	A	B	C	D	E	F	G
128	4 (4 x 32)	31	3.100 (78.74)	3.697 (93.90)	3.500 (88.90)	3.343 (84.90)	0.437 (11.10)	0.516 (13.10)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled	128	a + b + c + d fully loaded	20 8477 128 002 001	20 8477 128 002 025	20 8477 128 002 049
0.3 x 0.79 mm Post Profile 3.0 mm (Y) Right Angled	128	a + b + c + d fully loaded	20 8477 128 006 001	20 8477 128 006 025	20 8477 128 006 049
0.6 x 0.6 mm Post Profile 11.43 mm (Y) Right Angled	128	a + b + c + d fully loaded	20 8477 128 008 001	20 8477 128 008 025	20 8477 128 008 049
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Right Angled	128	a + b + c + d fully loaded	20 8477 128 009 001	20 8477 128 009 025	20 8477 128 009 049
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Right Angled	128	a + b + c + d fully loaded	20 8477 128 012 001	20 8477 128 012 025	20 8477 128 012 049

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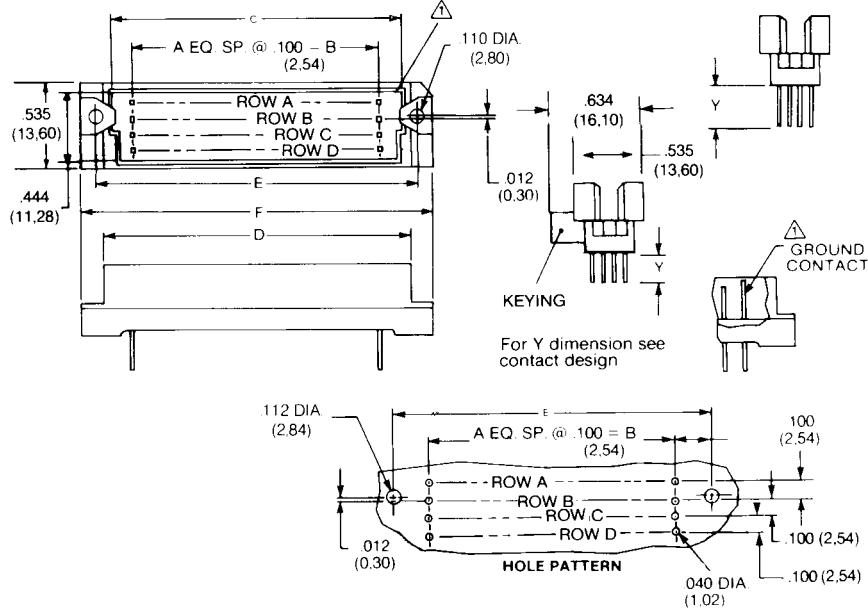
ELCO

DIN 41612 Connectors



Series 8477 – Male Style R Expanded - 5 Rows (5 x 32) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E	F
60	5 (5 x 32)	31	3.100 (78.74)	3.358 (85.29)	3.461 (87.91)	3.543 (89.99)	3.736 (94.89)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
2.9 mm (Y) Straight	160	a + b + c + d + e fully loaded	10 8477 160 001 001	10 8477 160 001 025	10 8477 160 001 049
	158 + 2	5 rows fully loaded + ground	10 8477 160 101 001	10 8477 160 101 025	10 8477 160 101 049
4.5 mm (Y) Straight	160	a + b + c + d + e fully loaded	10 8477 160 002 001	10 8477 160 002 025	10 8477 160 002 049
	158 + 2	5 rows fully loaded + ground	10 8477 160 102 001	10 8477 160 102 025	10 8477 160 102 049
9.5 mm (Y) Straight	160	a + b + c + d + e fully loaded	10 8477 160 105 001	10 8477 160 105 025	10 8477 160 105 049
	160	a + b + c + d + e fully loaded	10 8477 160 106 001	10 8477 160 106 025	10 8477 160 106 049
13.0 mm (Y) Straight	160	a + b + c + d + e fully loaded	10 8477 160 107 001	10 8477 160 107 025	10 8477 160 107 049
	160	a + b + c + d + e fully loaded	10 8477 160 107 001	10 8477 160 107 025	10 8477 160 107 049

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #216. Visit our website <http://www.avxcorp.com>

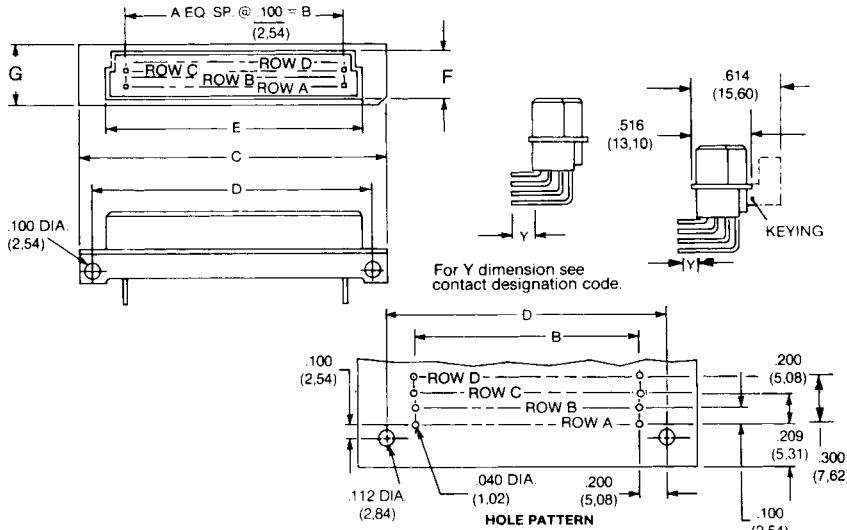
ELCO

DIN 41612 Connectors



Series 8477 - Female Style R Expanded - 5 Rows (5 x 32) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E	F	G
160	5 (5 x 32)	31	3.100 (78.74)	3.697 (93.90)	3.500 (88.90)	3.343 (84.90)	0.437 (11.10)	0.516 (13.10)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled	160	a + b + c + d + e fully loaded	20 8477 160 002 001	20 8477 160 002 025	20 8477 160 002 049
0.6 x 0.6 mm Post Profile 11.43 mm (Y) Right Angled	160	a + b + c + d + e fully loaded	20 8477 160 008 001	20 8477 160 008 025	20 8477 160 008 049
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Right Angled	160	a + b + c + d + e fully loaded	20 8477 160 009 001	20 8477 160 009 025	20 8477 160 009 049
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Right Angled	160	a + b + c + d + e fully loaded	20 8477 160 012 001	20 8477 160 012 025	20 8477 160 012 049

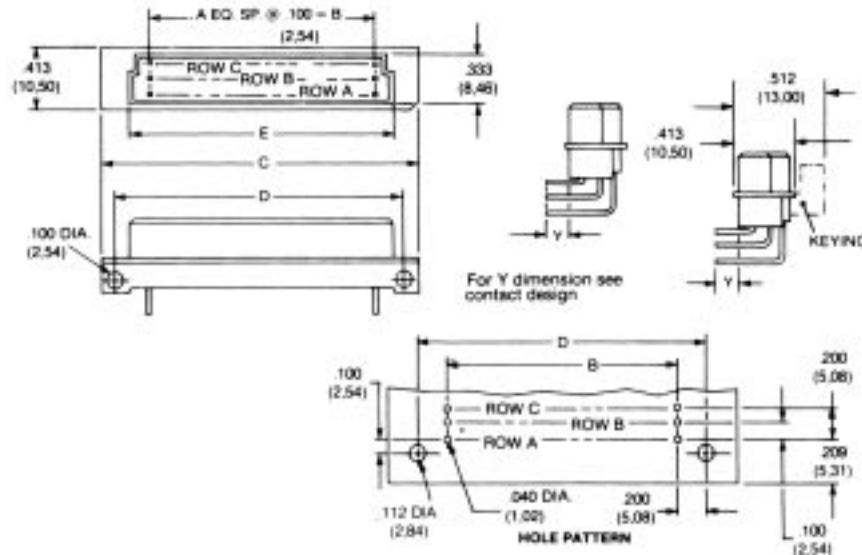
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DIN 41612 Connectors



Series 8477 - Female Style R Expanded - 3 Rows (3 x 50) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
		III	II	I		
150	3 (3 x 50)	49	4.491 (125.50)	5.496 (139.60)	5.300 (134.62)	5.142 (130.61)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 11.43 mm (Y) Right Angled	100	a + c even loading	20 8477 150 008 002	20 8477 150 008 025	20 8477 150 008 050
	150	a + b + c fully loaded	20 8477 150 008 001	20 8477 150 008 025	20 8477 150 008 049
0.6 x 0.6 mm Post Profile 2.8 mm (Y) Right Angled	150	a + b + c fully loaded	20 8477 150 001 001	20 8477 150 01 025	20 8477 150 01 049
	100	a + c even loading	20 8477 150 001 002	20 8477 150 01 026	20 8477 150 01 050
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled	150	a + b + c fully loaded	20 8477 150 002 001	20 8477 150 02 025	20 8477 150 02 049
	100	a + c even loading	20 8477 150 002 002	20 8477 150 02 026	20 8477 150 02 050
0.3 x 0.79 mm Post Profile 3.0 mm (Y) Right Angled	150	a + b + c fully loaded	20 8477 150 006 001	20 8477 150 006 025	20 8477 150 006 049
	100	a + c even loading	20 8477 150 006 002	20 8477 150 006 026	20 8477 150 006 050
0.6 x 0.6 mm Post Profile 11.43 mm (Y) Right Angled	150	a + b + c fully loaded	20 8477 150 008 001	20 8477 150 008 025	20 8477 150 008 049
	100	a + c even loading	20 8477 150 008 002	20 8477 150 008 026	20 8477 150 008 050
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Right Angled	150	a + b + c fully loaded	20 8477 150 009 001	20 8477 150 009 025	20 8477 150 009 049
	100	a + c even loading	20 8477 150 009 002	20 8477 150 009 026	20 8477 150 009 050
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Right Angled	150	a + b + c fully loaded	20 8477 150 012 001	20 8477 150 012 025	20 8477 150 012 049
	100	a + c even loading	20 8477 150 012 002	20 8477 150 012 026	20 8477 150 012 050

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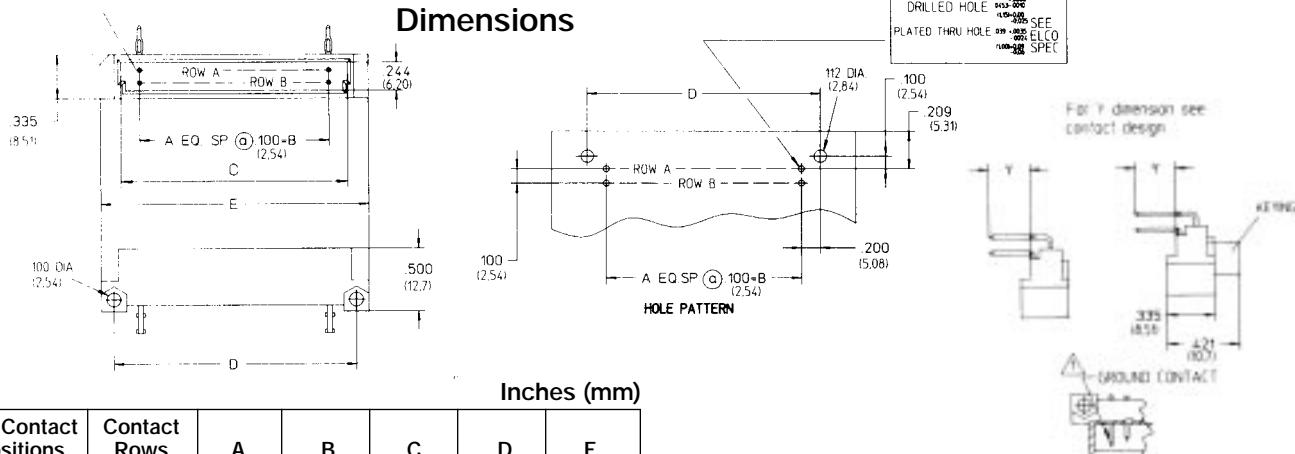
ELCO

DIN 41612 Connectors



Series 8458 – Male Style ½ B Press-Fit - 2 Rows (2 x 16) - .100 Pitch

Dimensions

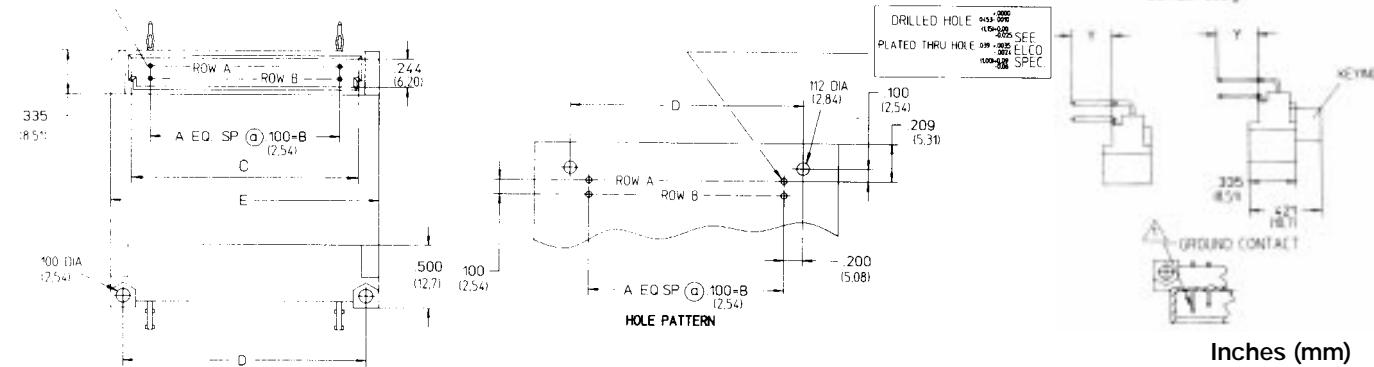


Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
032	2 (2 x 16)	15	1.500 (38.10)	1.754 (44.55)	1.900 (48.26)	2.100 (53.34)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's 5.3 mm (Y) Right Angled	32	a + b fully loaded	10 8458 032 001 001	10 8458 032 001 025	10 8458 032 001 049
	16	a loading only	10 8458 032 001 003	10 8458 032 001 027	10 8458 032 001 051
	30 + 2	fully loaded + ground	10 8458 032 101 001	10 8458 032 101 025	10 8458 032 101 049
for 1.6 mm PCB's 3.0 mm (Y) Right Angled	32	a + b fully loaded	10 8458 032 031 001	10 8458 032 031 025	10 8458 032 031 049
	16	a loading only	10 8458 032 031 003	10 8458 032 031 027	10 8458 032 031 051
	30 + 2	fully loaded + ground	10 8458 032 131 001	10 8458 032 131 025	10 8458 032 131 049

Series 8458 – Male Style B Press-Fit - 2 Rows (2 x 32) - .100 Pitch



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
064	2 (2 x 32)	31	3.100 (78.74)	3.354 (85.19)	3.500 (88.90)	3.700 (93.98)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's 5.3 mm (Y) Right Angled	64	a + b fully loaded	10 8458 064 001 001	10 8458 064 001 025	10 8458 064 001 049
	32	a loading only	10 8458 064 001 003	10 8458 064 001 027	10 8458 064 001 051
	62 + 2	fully loaded + ground	10 8458 064 101 001	10 8458 064 101 025	10 8458 064 101 049
for 1.6 mm PCB's 3.0 mm (Y) Right Angled	64	a + b fully loaded	10 8458 064 031 001	10 8458 064 031 025	10 8458 064 031 049
	32	a loading only	10 8458 064 031 003	10 8458 064 031 027	10 8458 064 031 051
	62 + 2	fully loaded + ground	10 8458 064 131 001	10 8458 064 131 025	10 8458 064 131 049

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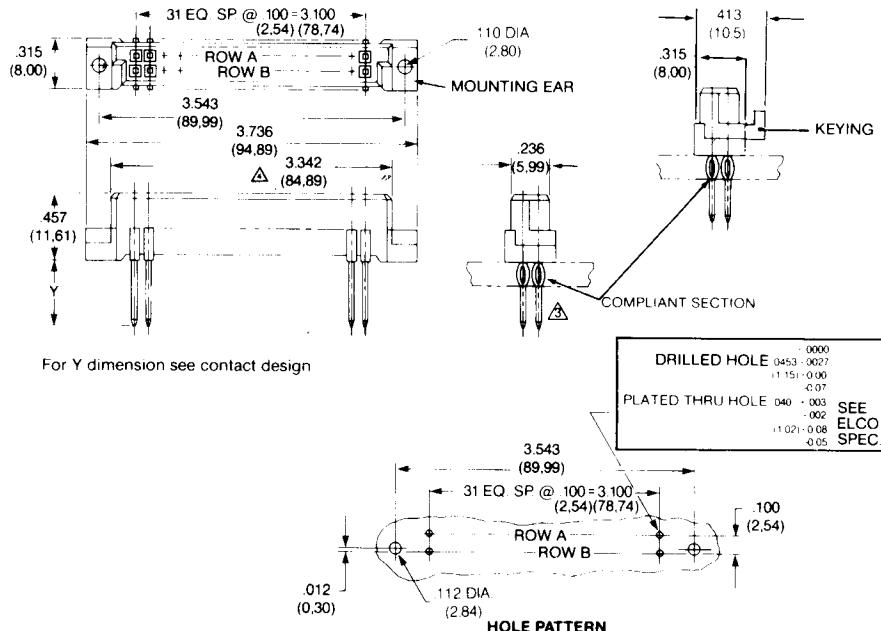
ELCO

DIN 41612 Connectors



Series 8458 – Female Style B Press-Fit - 2 Rows (2 x 32) - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's	64	a + b fully loaded	20 8458 064 001 001	20 8458 064 001 025	20 8458 064 001 049
0.6 x 0.6 mm Post Profile	32	a + c even loading	20 8458 064 001 003	20 8458 064 001 027	20 8458 064 001 051
5.3 mm (Y) Straight	32	a loading only	20 8458 064 001 007	20 8458 064 001 031	20 8458 064 001 055
for ≥ 2.4 mm PCB's	64	a + b fully loaded	20 8458 064 002 001	20 8458 064 002 025	20 8458 064 002 049
0.6 x 0.6 mm Post Profile	32	a + c even loading	20 8458 064 002 003	20 8458 064 002 027	20 8458 064 002 051
9.3 mm (Y) Straight	32	a loading only	20 8458 064 002 007	20 8458 064 002 031	20 8458 064 002 055
for ≥ 2.4 mm PCB's	64	a + b fully loaded	20 8458 064 003 001	20 8458 064 003 025	20 8458 064 003 049
0.6 x 0.6 mm Post Profile	32	a + c even loading	20 8458 064 003 003	20 8458 064 003 027	20 8458 064 003 051
16.2 mm (Y) Straight	32	a loading only	20 8458 064 003 007	20 8458 064 003 031	20 8458 064 003 055
for ≥ 2.4 mm PCB's	64	a + b fully loaded	20 8458 064 004 001	20 8458 064 004 025	20 8458 064 004 049
0.6 x 0.6 mm Post Profile	32	a + c even loading	20 8458 064 004 003	20 8458 064 004 027	20 8458 064 004 051
23.2 mm (Y) Straight	32	a loading only	20 8458 064 004 007	20 8458 064 004 031	20 8458 064 004 055
for ≥ 2.4 mm PCB's	64	a + b fully loaded	20 8458 064 005 001	20 8458 064 005 025	20 8458 064 005 049
0.6 x 0.6 mm Post Profile	32	a + c even loading	20 8458 064 005 003	20 8458 064 005 027	20 8458 064 005 051
13.2 mm (Y) Straight	32	a loading only	20 8458 064 005 007	20 8458 064 005 031	20 8458 064 005 055
for ≥ 2.4 mm PCB's	64	a + b fully loaded	20 8458 064 009 001	20 8458 064 009 025	20 8458 064 009 049
0.6 x 0.6 mm Post Profile	32	a + c even loading	20 8458 064 009 003	20 8458 064 009 027	20 8458 064 009 051
12.0 mm (Y) Straight	32	a loading only	20 8458 064 009 007	20 8458 064 009 031	20 8458 064 009 055
for ≥ 2.4 mm PCB's	64	a + b fully loaded	20 8458 064 010 001	20 8458 064 010 025	20 8458 064 010 049
0.6 x 0.6 mm Post Profile	32	a + c even loading	20 8458 064 010 003	20 8458 064 010 027	20 8458 064 010 051
20.3 mm (Y) Straight	32	a loading only	20 8458 064 010 007	20 8458 064 010 031	20 8458 064 010 055
for ≥ 2.4 mm PCB's	64	a + b fully loaded	20 8458 064 012 001	20 8458 064 012 025	20 8458 064 012 049
0.6 x 0.6 mm Post Profile	32	a + c even loading	20 8458 064 012 003	20 8458 064 012 027	20 8458 064 012 051
17.0 mm Straight	32	a loading only	20 8458 064 012 007	20 8458 064 012 031	20 8458 064 012 055
for 1.6 mm PCB's	64	a + b fully loaded	20 8458 064 031 001	20 8458 064 031 025	20 8458 064 031 049
0.6 x 0.6 mm Post Profile	32	a + c even loading	20 8458 064 031 003	20 8458 064 031 027	20 8458 064 031 051
3.0 mm (Y) Straight	32	a loading only	20 8458 064 031 007	20 8458 064 031 031	20 8458 064 031 055

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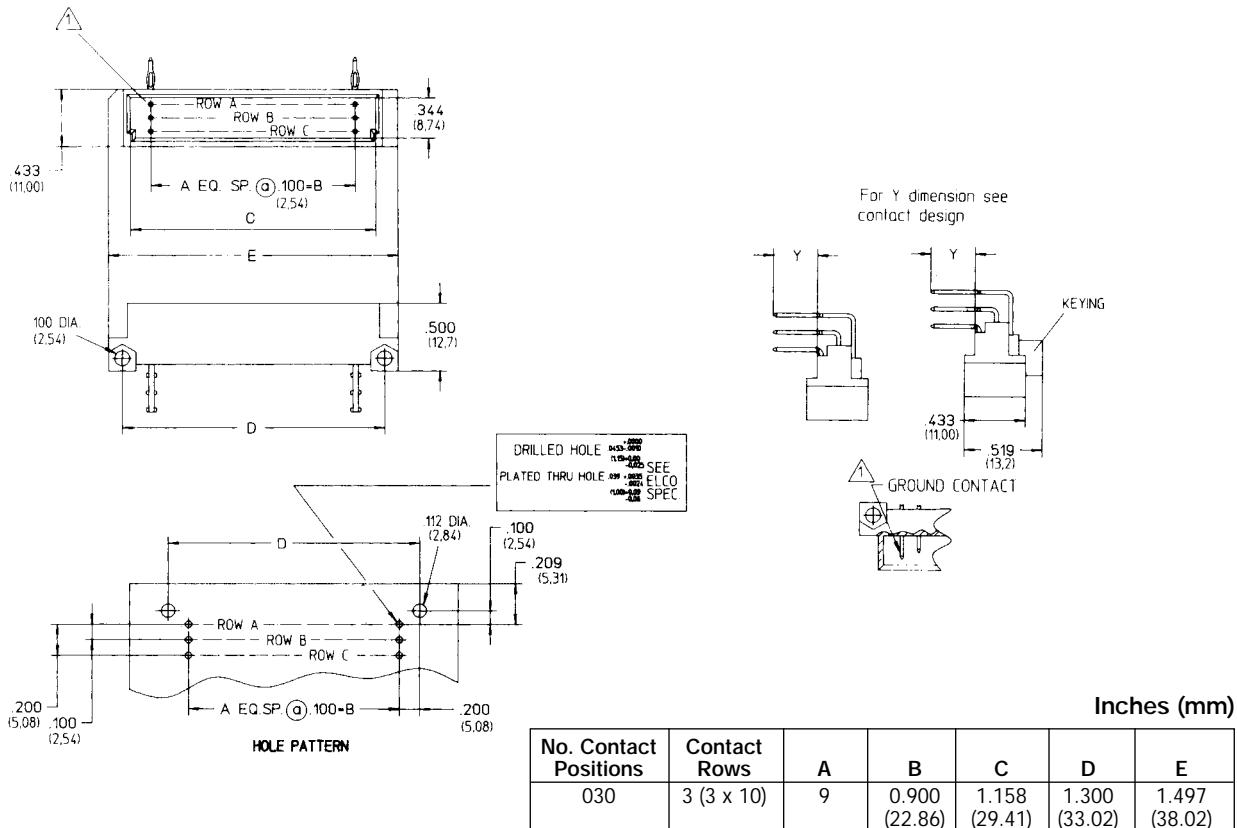
ELCO

DIN 41612 Connectors



Series 8458 - Male Style $\frac{1}{3}$ C Press-Fit - 3 Rows (3 x 10) - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's 5.3 mm (Y) (0.6" x 0.6") Right Angled	30	a + b + c fully loaded	10 8458 030 001 001	10 8458 030 001 025	10 8458 030 001 049
	20	a + c fully loaded	10 8458 030 001 002	10 8458 030 001 026	10 8458 030 001 050
	28 + 2	fully loaded + ground	10 8458 030 101 001	10 8458 030 101 025	10 8458 030 101 049
for 1.6 mm PCB's 3.0 mm (Y) (0.6" x 0.6") Right Angled	30	a + b + c fully loaded	10 8458 030 031 001	10 8458 030 031 025	10 8458 030 031 049
	20	a + c fully loaded	10 8458 030 031 002	10 8458 030 031 026	10 8458 030 031 050
	28 + 2	fully loaded + ground	10 8458 030 131 001	10 8458 030 131 025	10 8458 030 131 049

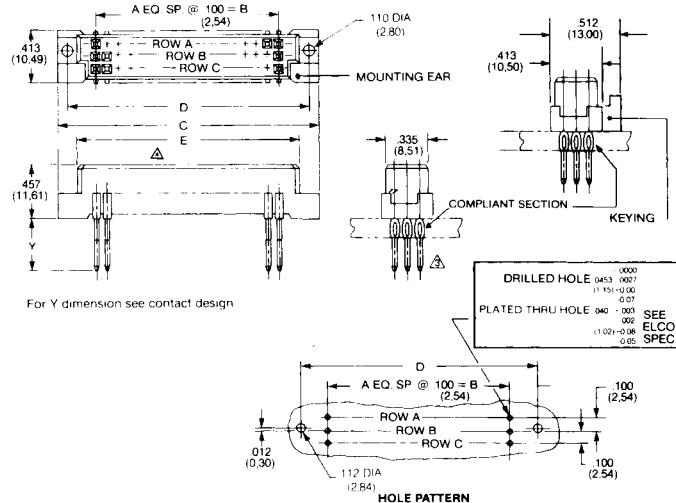
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DIN 41612 Connectors



Series 8458 - Female Style $\frac{1}{3}$ C Press-Fit - 3 Rows (3 x 10) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
030	3 (3 x 10)	9	0.900 (22.86)	1.563 (39.70)	1.368 (34.75)	1.144 (29.06)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	30	a + b + c fully loaded	20 8458 030 001 001	20 8458 030 001 025	20 8458 030 001 049
5.3 mm (Y) Straight	20	a + c fully loaded	20 8458 030 001 002	20 8458 030 001 026	20 8458 030 001 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	30	a + b + c fully loaded	20 8458 030 002 001	20 8458 030 002 025	20 8458 030 002 049
9.3 mm (Y) Straight	20	a + c fully loaded	20 8458 030 002 002	20 8458 030 002 026	20 8458 030 002 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	30	a + b + c fully loaded	20 8458 030 003 001	20 8458 030 003 025	20 8458 030 003 049
16.2 mm (Y) Straight	20	a + c fully loaded	20 8458 030 003 002	20 8458 030 003 026	20 8458 030 003 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	30	a + b + c fully loaded	20 8458 030 004 001	20 8458 030 004 025	20 8458 030 004 049
23.2 mm (Y) Straight	20	a + c fully loaded	20 8458 030 004 002	20 8458 030 004 026	20 8458 030 004 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	30	a + b + c fully loaded	20 8458 030 005 001	20 8458 030 005 025	20 8458 030 005 049
13.2 mm (Y) Straight	20	a + c fully loaded	20 8458 030 005 002	20 8458 030 005 026	20 8458 030 005 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	30	a + b + c fully loaded	20 8458 030 009 001	20 8458 030 009 025	20 8458 030 009 049
12.0 mm (Y) Straight	20	a + c fully loaded	20 8458 030 009 002	20 8458 030 009 026	20 8458 030 009 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	30	a + b + c fully loaded	20 8458 030 010 001	20 8458 030 010 025	20 8458 030 010 049
20.3 mm (Y) Straight	20	a + c fully loaded	20 8458 030 010 002	20 8458 030 010 026	20 8458 030 010 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	30	a + b + c fully loaded	20 8458 030 012 001	20 8458 030 012 025	20 8458 030 012 049
17.0 mm (Y) Straight	20	a + c fully loaded	20 8458 030 012 002	20 8458 030 012 026	20 8458 030 012 050
for 1.6 mm PCB's					
0.6 x 0.6 mm Post Profile	30	a + b + c fully loaded	20 8458 030 031 001	20 8458 030 031 025	20 8458 030 031 049
3.0 mm (Y) Straight	20	a + c fully loaded	20 8458 030 031 002	20 8458 030 031 026	20 8458 030 031 050

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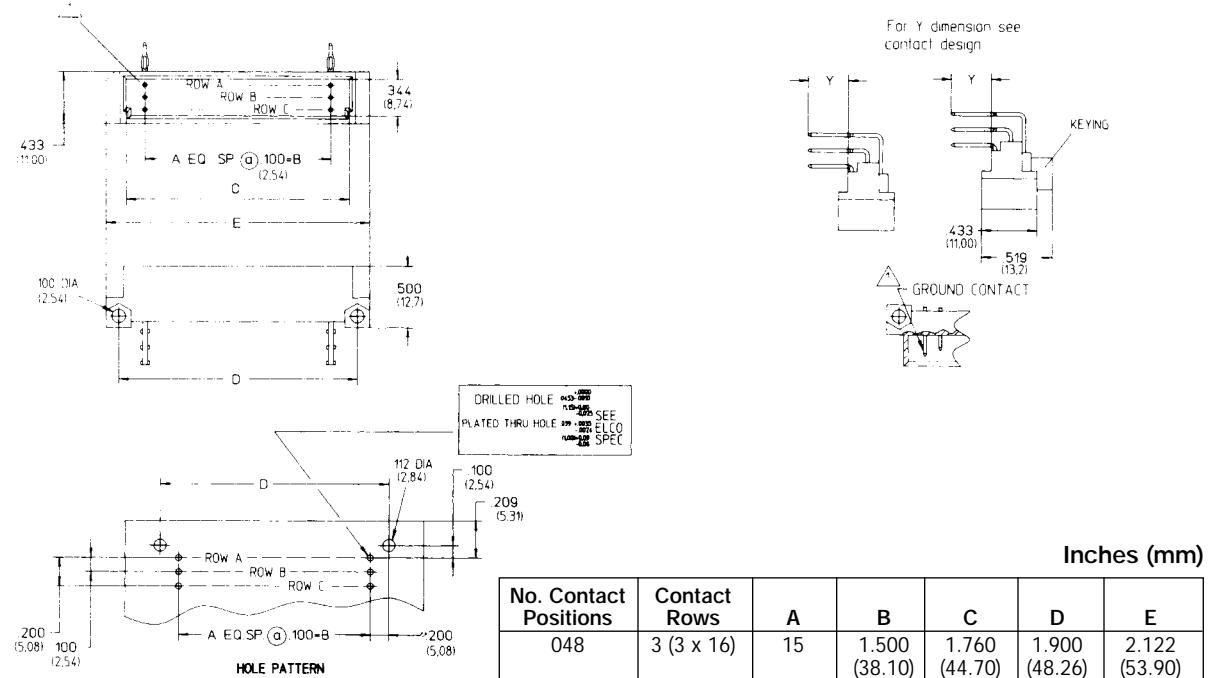
ELCO

DIN 41612 Connectors



Series 8458 – Male Style ½ C Press-Fit - 3 Rows (3 x 16) - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 5.3 mm (Y) Right Angled	48	a + b + c fully loaded	10 8458 048 001 001	10 8458 048 001 025	10 8458 048 001 049
	32	a + c fully loaded	10 8458 048 001 002	10 8458 048 001 026	10 8458 048 001 050
	16	a + c even loading	10 8458 048 001 009	10 8458 048 001 033	10 8458 048 001 057
	16	a loading only	10 8458 048 001 003	10 8458 048 001 027	10 8458 048 001 051
	46 + 2	fully loaded + ground	10 8458 048 101 001	10 8458 048 101 025	10 8458 048 101 049
for 1.6 mm PCB's 0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled	48	a + b + c fully loaded	10 8458 048 031 001	10 8458 048 031 025	10 8458 048 031 049
	32	a + c fully loaded	10 8458 048 031 002	10 8458 048 031 026	10 8458 048 031 050
	16	a + c even loading	10 8458 048 031 009	10 8458 048 031 033	10 8458 048 031 057
	16	a loading only	10 8458 048 031 003	10 8458 048 031 027	10 8458 048 031 051
	46 + 2	fully loaded + ground	10 8458 048 131 001	10 8458 048 131 025	10 8458 048 131 049

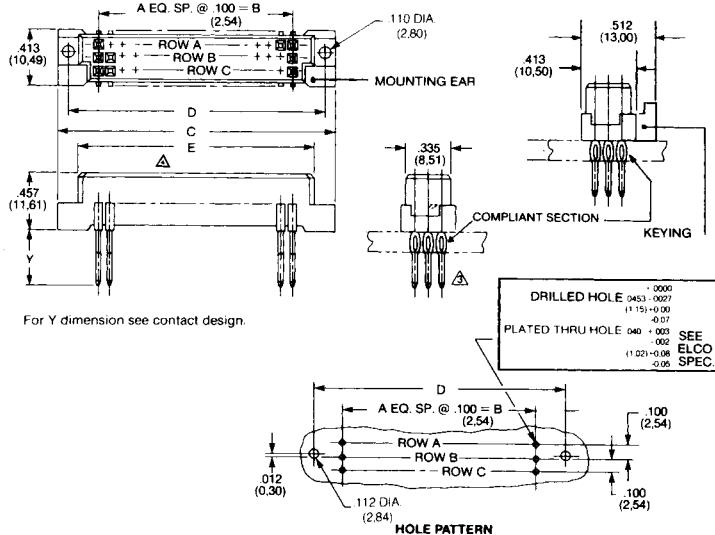
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DIN 41612 Connectors



Series 8458 - Female Style $\frac{1}{2}$ C Press-Fit - 3 Rows (3 x 16) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
048	3 (3 x 16)	15	1.500 (38.10)	2.165 (54.99)	1.771 (44.99)	1.748 (44.40)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 5.3 mm (Y) Straight	48	a + b + c fully loaded	20 8458 048 001 001	20 8458 048 001 025	20 8458 048 001 049
	32	a + c fully loaded	20 8458 048 001 002	20 8458 048 001 026	20 8458 048 001 050
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 9.3 mm (Y) Straight	48	a + b + c fully loaded	20 8458 048 002 001	20 8458 048 002 025	20 8458 048 002 049
	32	a + c fully loaded	20 8458 048 002 002	20 8458 048 002 026	20 8458 048 002 050
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 16.2 mm (Y) Straight	48	a + b + c fully loaded	20 8458 048 003 001	20 8458 048 003 025	20 8458 048 003 049
	32	a + c fully loaded	20 8458 048 003 002	20 8458 048 003 026	20 8458 048 003 050
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 23.2 mm (Y) Straight	48	a + b + c fully loaded	20 8458 048 004 001	20 8458 048 004 025	20 8458 048 004 049
	32	a + c fully loaded	20 8458 048 004 002	20 8458 048 004 026	20 8458 048 004 050
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 13.2 mm (Y) Straight	48	a + b + c fully loaded	20 8458 048 005 001	20 8458 048 005 025	20 8458 048 005 049
	32	a + c fully loaded	20 8458 048 005 002	20 8458 048 005 026	20 8458 048 005 050
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 12.0 mm (Y) Straight	48	a + b + c fully loaded	20 8458 048 009 001	20 8458 048 009 025	20 8458 048 009 049
	32	a + c fully loaded	20 8458 048 009 002	20 8458 048 009 026	20 8458 048 009 050
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 20.3 mm (Y) Straight	48	a + b + c fully loaded	20 8458 048 010 001	20 8458 048 010 025	20 8458 048 010 049
	32	a + c fully loaded	20 8458 048 010 002	20 8458 048 010 026	20 8458 048 010 050
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 17.0 mm (Y) Straight	48	a + b + c fully loaded	20 8458 048 012 001	20 8458 048 012 025	20 8458 048 012 049
	32	a + c fully loaded	20 8458 048 012 002	20 8458 048 012 026	20 8458 048 012 050
for 1.6 mm PCB's 0.6 x 0.6 mm Post Profile 3.0 mm (Y) Straight	48	a + b + c fully loaded	20 8458 048 031 001	20 8458 048 031 025	20 8458 048 031 049
	32	a + c fully loaded	20 8458 048 031 002	20 8458 048 031 026	20 8458 048 031 050

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
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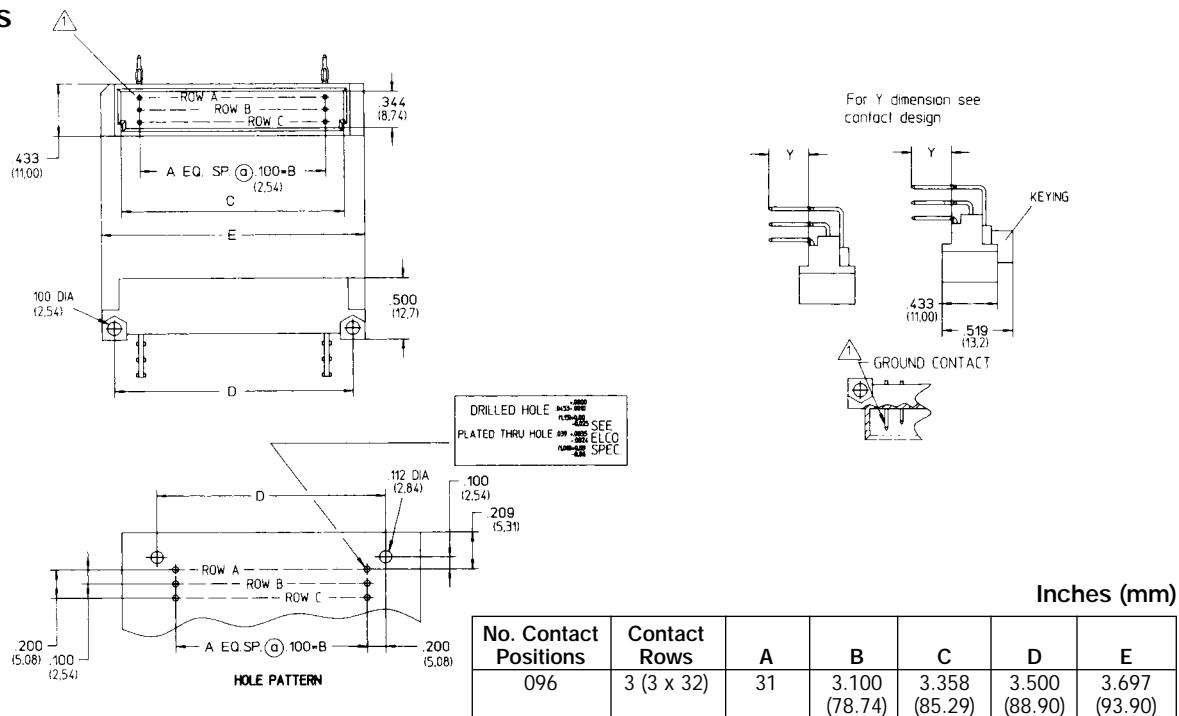
ELCO

DIN 41612 Connectors



Series 8458 - Male Style C Press-Fit - 3 Rows (3 x 32) - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's 	96	a + b + c fully loaded	10 8458 096 001 001	10 8458 096 001 025	10 8458 096 001 049
	64	a + c fully loaded	10 8458 096 001 002	10 8458 096 001 026	10 8458 096 001 050
	32	a + c even loading	10 8458 096 001 009	10 8458 096 001 033	10 8458 096 001 057
	32	a loading only	10 8458 096 001 003	10 8458 096 001 027	10 8458 096 001 051
	94 + 2	fully loaded + ground	10 8458 096 101 001	10 8458 096 101 025	10 8458 096 101 049
for 1.6 mm PCB's 	96	a + b + c fully loaded	10 8458 096 031 001	10 8458 096 031 025	10 8458 096 031 049
	64	a + c fully loaded	10 8458 096 031 002	10 8458 096 031 026	10 8458 096 031 050
	32	a + c even loading	10 8458 096 031 009	10 8458 096 031 033	10 8458 096 031 057
	32	a loading only	10 8458 096 031 003	10 8458 096 031 027	10 8458 096 031 051
	94 + 2	fully loaded + ground	10 8458 096 131 001	10 8458 096 131 025	10 8458 096 131 049
0.6 x 0.6 mm Post Profile 5.3 mm (Y) Right Angled					
0.6 x 0.6 mm Post Profile 5.3 mm (Y) Right Angled					

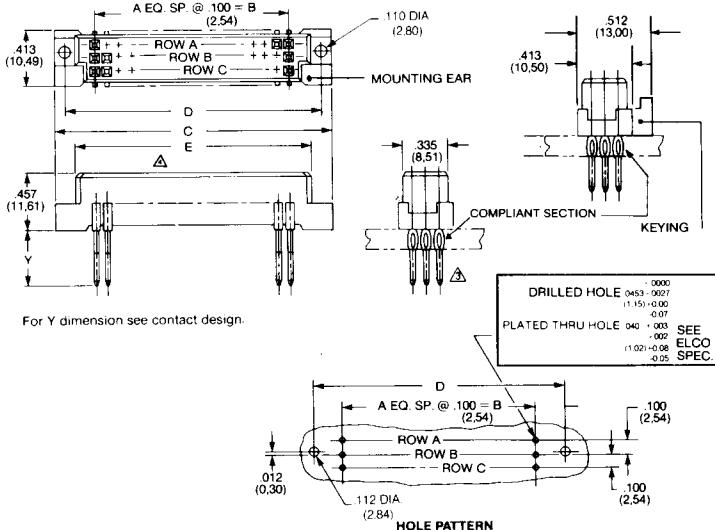
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DIN 41612 Connectors



Series 8458 - Female Style C Press-Fit - 3 Rows (3 x 32) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
096	3 (3 x 32)	31	3.100 (78.74)	3.740 (95.00)	3.543 (89.99)	3.346 (84.99)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	96	a + b + c fully loaded	20 8458 096 001 001	20 8458 096 001 025	20 8458 096 001 049
5.3 mm (Y) Straight	64	a + c fully loaded	20 8458 096 001 002	20 8458 096 001 026	20 8458 096 001 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	96	a + b + c fully loaded	20 8458 096 002 001	20 8458 096 002 025	20 8458 096 002 049
9.3 mm (Y) Straight	64	a + c fully loaded	20 8458 096 002 002	20 8458 096 002 026	20 8458 096 002 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	96	a + b + c fully loaded	20 8458 096 003 001	20 8458 096 003 025	20 8458 096 003 049
16.2 mm (Y) Straight	64	a + c fully loaded	20 8458 096 003 002	20 8458 096 003 026	20 8458 096 003 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	96	a + b + c fully loaded	20 8458 096 004 001	20 8458 096 004 025	20 8458 096 004 049
23.2 mm (Y) Straight	64	a + c fully loaded	20 8458 096 004 002	20 8458 096 004 026	20 8458 096 004 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	96	a + b + c fully loaded	20 8458 096 005 001	20 8458 096 005 025	20 8458 096 005 049
13.2 mm (Y) Straight	64	a + c fully loaded	20 8458 096 005 002	20 8458 096 005 026	20 8458 096 005 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	96	a + b + c fully loaded	20 8458 096 009 001	20 8458 096 009 025	20 8458 096 009 049
12.0 mm (Y) Straight	64	a + c fully loaded	20 8458 096 009 002	20 8458 096 009 026	20 8458 096 009 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	96	a + b + c fully loaded	20 8458 096 010 001	20 8458 096 010 025	20 8458 096 010 049
20.3 mm (Y) Straight	64	a + c fully loaded	20 8458 096 010 002	20 8458 096 010 026	20 8458 096 010 050
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	96	a + b + c fully loaded	20 8458 096 012 001	20 8458 096 012 025	20 8458 096 012 049
17.0 mm (Y) Straight	64	a + c fully loaded	20 8458 096 012 002	20 8458 096 012 026	20 8458 096 012 050
for 1.6 mm PCB's					
0.6 x 0.6 mm Post Profile	96	a + b + c fully loaded	20 8458 096 031 001	20 8458 096 031 025	20 8458 096 031 049
3.0 mm (Y) Straight	64	a + c fully loaded	20 8458 096 031 002	20 8458 096 031 026	20 8458 096 031 050

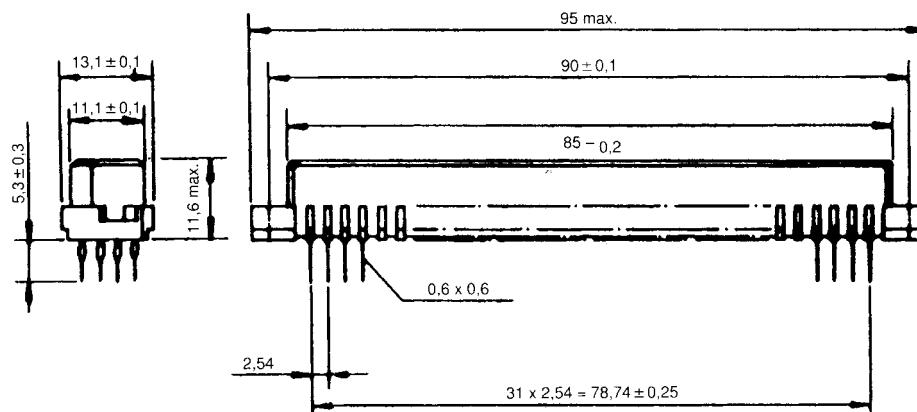
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DIN 41612 Connectors



Series 8458 - Female Style C Expanded Press-Fit - 4 Rows (4 x 32) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E	F	G
128	4 (4 x 32)	31	3.100 (78.74)	3.740 (95.00)	3.543 (90.00)	3.346 (85.00)	0.433 (11.00)	0.516 (13.10)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	20 8458 128 001 001	20 8458 128 001 025	20 8458 128 001 049
6.3 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	20 8458 128 002 001	20 8458 128 002 025	20 8458 128 002 049
9.3 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	20 8458 128 003 001	20 8458 128 003 025	20 8458 128 003 049
16.2 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	20 8458 128 004 001	20 8458 128 004 025	20 8458 128 004 049
23.2 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	20 8458 128 005 001	20 8458 128 005 025	20 8458 128 005 049
13.2 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	20 8458 128 009 001	20 8458 128 009 025	20 8458 128 009 049
12.0 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	20 8458 128 010 001	20 8458 128 010 025	20 8458 128 010 049
20.3 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	20 8458 128 012 001	20 8458 128 012 025	20 8458 128 012 049
17.0 mm (Y) Straight					
for 1.6 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	20 8458 128 031 001	20 8458 128 031 025	20 8458 128 031 049
3.0 mm (Y) Straight					

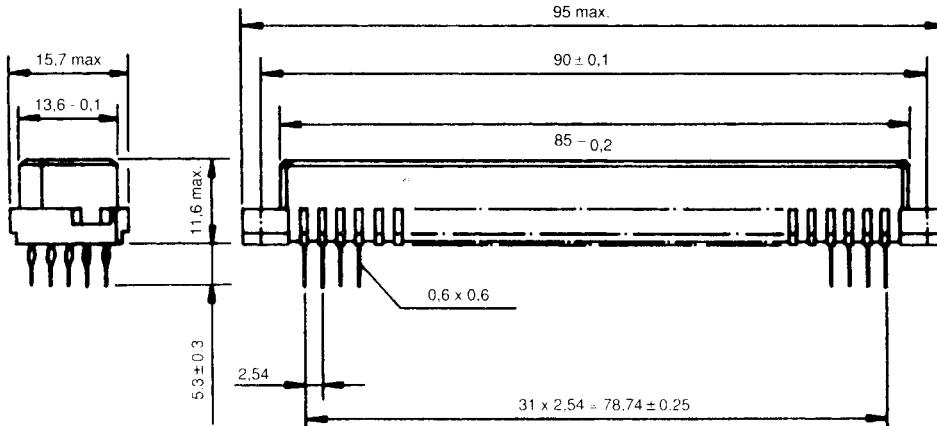
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DIN 41612 Connectors



Series 8458 - Female Style C Expanded Press-Fit - 5 Rows (5 x 32) - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E	F	G
160	5 (5 x 32)	31	3.100 (78.74)	3.740 (95.00)	3.543 (90.00)	3.346 (85.00)	0.433 (11.00)	0.516 (13.10)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8458 160 001 002	20 8458 160 001 026	20 8458 160 001 050
6.3 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8458 160 002 002	20 8458 160 002 026	20 8458 160 002 050
9.3 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8458 160 003 002	20 8458 160 003 026	20 8458 160 003 050
16.2 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8458 160 004 002	20 8458 160 004 026	20 8458 160 004 050
23.2 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8458 160 005 002	20 8458 160 005 026	20 8458 160 005 050
13.2 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8458 160 009 002	20 8458 160 009 026	20 8458 160 009 050
12.0 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8458 160 010 002	20 8458 160 010 026	20 8458 160 010 050
20.3 mm (Y) Straight					
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8458 160 012 002	20 8458 160 012 026	20 8458 160 012 050
17.0 mm (Y) Straight					
for 1.6 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8458 160 031 001	20 8458 160 031 025	20 8458 160 031 049
3.0 mm (Y) Straight					

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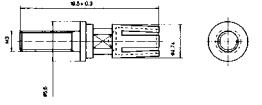
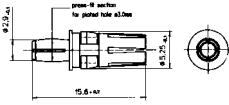
ELCO

DIN 41612 Connectors



Series 8485 – Style M Contacts – Special Contacts for Style M Connectors

High Power Receptacle Contact for Receptacle Series 8484

Variation	Termination	$\emptyset A^*$	Performance	Ordering Code
	Screw $\phi 3M$.114 (2.90) for .118 (3.00) PCB hole Note: set PCB hole spec	40 Ampere max.	70 8485 02 14 00 343
	Press-Fit		40 Ampere max.	70 8485 03 14 00 343

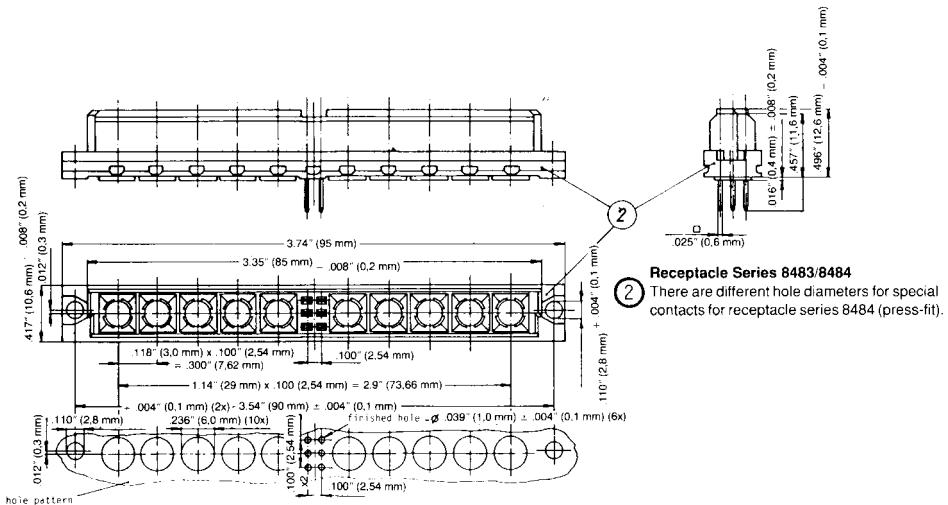
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DIN 41612 Connectors



Series 8484 – Female Style 1/2 M Press-Fit - 3 Rows (3 x 4, 10) - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Cavities for Signal Positions	Number of Cavities for Special Positions	Loading Description	Part Number Performance classes according to DIN 41612		
				III	II	I
5.3 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	20 8484 012 001 001	20 8484 012 001 025	20 8484 012 001 049
	30 (3 x 10)	2	a + b + c fully loaded	20 8484 030 001 001	20 8484 030 001 025	20 8484 030 001 049
9.3 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	20 8484 012 002 001	20 8484 012 002 025	20 8484 012 002 049
	30 (3 x 10)	2	a + b + c fully loaded	20 8484 030 002 001	20 8484 030 002 025	20 8484 030 002 049
16.2 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	20 8484 012 003 001	20 8484 012 003 025	20 8484 012 003 049
	30 (3 x 10)	2	a + b + c fully loaded	20 8484 030 003 001	20 8484 030 003 025	20 8484 030 003 049
23.2 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	20 8484 012 004 001	20 8484 012 004 025	20 8484 012 004 049
	30 (3 x 10)	2	a + b + c fully loaded	20 8484 030 004 001	20 8484 030 004 025	20 8484 030 004 049
13.2 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	20 8484 012 005 001	20 8484 012 005 025	20 8484 012 005 049
	30 (3 x 10)	2	a + b + c fully loaded	20 8484 030 005 001	20 8484 030 005 025	20 8484 030 005 049
18.2 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	20 8484 012 008 001	20 8484 012 008 025	20 8484 012 008 049
	30 (3 x 10)	2	a + b + c fully loaded	20 8484 030 008 001	20 8484 030 008 025	20 8484 030 008 049
12.0 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	20 8484 012 009 001	20 8484 012 009 025	20 8484 012 009 049
	30 (3 x 10)	2	a + b + c fully loaded	20 8484 030 009 001	20 8484 030 009 025	20 8484 030 009 049
20.3 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	20 8484 012 010 001	20 8484 012 010 025	20 8484 012 010 049
	30 (3 x 10)	2	a + b + c fully loaded	20 8484 030 010 001	20 8484 030 010 025	20 8484 030 010 049
Special storch leg 18.7 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	20 8484 012 011 001	20 8484 012 011 025	20 8484 012 011 049
	30 (3 x 10)	2	a + b + c fully loaded	20 8484 030 011 001	20 8484 030 011 025	20 8484 030 011 049
17.0 mm (Y) Straight	12 (3 x 4)	4	a + b + c fully loaded	20 8484 012 012 001	20 8484 012 012 025	20 8484 012 012 049
	30 (3 x 10)	2	a + b + c fully loaded	20 8484 030 012 001	20 8484 030 012 025	20 8484 030 012 049

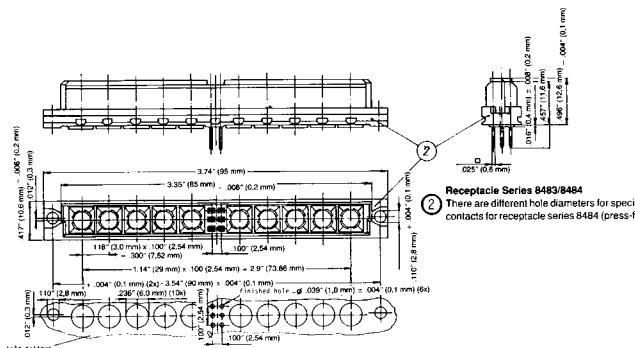
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DIN 41612 Connectors



Series 8484 – Female Style M Press-Fit - 3 Rows (3 x 2, 8, 14, 20 or 28) - .100 Pitch

Dimensions



variations receivable (mating side)													max. pin counts
31	28	25	22	19	15	14	11	8	5	3	1		
○	○	○	○	○	○	○	○	○	○	○	○	○	78 + max. 2 special contacts
○	○	○	○	○	○	○	○	○	○	○	○	○	60 + max. 2 special contacts
○	○	○	○	○	○	○	○	○	○	○	○	○	42 + max. 6 special contacts
○	○	○	○	○	○	○	○	○	○	○	○	○	24 + max. 8 special contacts
○	○	○	○	○	○	○	○	○	○	○	○	○	max. 10 special contacts

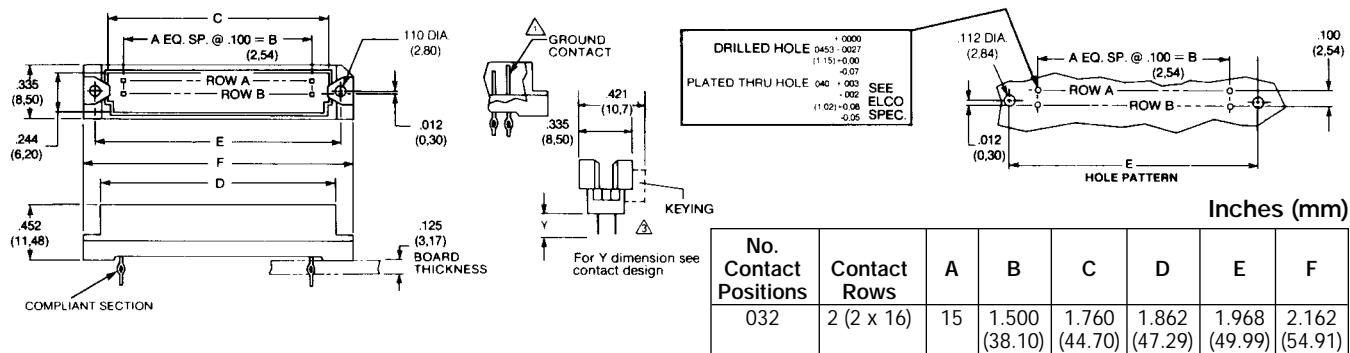
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DIN 41612 Connectors



Series 8478 – Male Style $\frac{1}{2}$ Q Press-Fit - 2 Rows (2 x 16) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's	32	a + b fully loaded	10 8478 032 001 001	10 8478 032 001 025	10 8478 032 001 049
	16	a + b even loading	10 8478 032 001 007	10 8478 032 001 031	10 8478 032 001 055
	16	a loading only	10 8478 032 001 003	10 8478 032 001 027	10 8478 032 001 051
	30 + 2	fully loaded + ground	10 8478 032 101 001	10 8478 032 101 025	10 8478 032 101 049
0.6 x 0.6 mm Post Profile 5.3 mm (Y) Straight	32	a + b fully loaded	10 8478 032 002 001	10 8478 032 002 025	10 8478 032 002 049
	16	a + b even loading	10 8478 032 002 007	10 8478 032 002 031	10 8478 032 002 055
	16	a loading only	10 8478 032 002 003	10 8478 032 002 027	10 8478 032 002 051
	30 + 2	fully loaded + ground	10 8478 032 102 001	10 8478 032 102 025	10 8478 032 102 049
9.3 mm (Y) Straight	32	a + b fully loaded	10 8478 032 003 001	10 8478 032 003 025	10 8478 032 003 049
	16	a + b even loading	10 8478 032 003 007	10 8478 032 003 031	10 8478 032 003 055
	16	a loading only	10 8478 032 003 003	10 8478 032 003 027	10 8478 032 003 051
	30 + 2	fully loaded + ground	10 8478 032 103 001	10 8478 032 103 025	10 8478 032 103 049
16.2 mm (Y) Straight	32	a + b fully loaded	10 8478 032 004 001	10 8478 032 004 025	10 8478 032 004 049
	16	a + b even loading	10 8478 032 004 007	10 8478 032 004 031	10 8478 032 004 055
	16	a loading only	10 8478 032 004 003	10 8478 032 004 027	10 8478 032 004 051
	30 + 2	fully loaded + ground	10 8478 032 104 001	10 8478 032 104 025	10 8478 032 104 049
18.2 mm (Y) Straight	32	a + b fully loaded	10 8478 032 005 001	10 8478 032 005 025	10 8478 032 005 049
	16	a + b even loading	10 8478 032 005 007	10 8478 032 005 031	10 8478 032 005 055
	16	a loading only	10 8478 032 005 003	10 8478 032 005 027	10 8478 032 005 051
	30 + 2	fully loaded + ground	10 8478 032 105 001	10 8478 032 105 025	10 8478 032 105 049
14.6 mm (Y) Straight	32	a + b fully loaded	10 8478 032 006 001	10 8478 032 006 025	10 8478 032 006 049
	16	a + b even loading	10 8478 032 006 007	10 8478 032 006 031	10 8478 032 006 055
	16	a loading only	10 8478 032 006 003	10 8478 032 006 027	10 8478 032 006 051
	30 + 2	fully loaded + ground	10 8478 032 106 001	10 8478 032 106 025	10 8478 032 106 049
13.2 mm (Y) Straight	32	a + b fully loaded	10 8478 032 007 001	10 8478 032 007 025	10 8478 032 007 049
	16	a + b even loading	10 8478 032 007 007	10 8478 032 007 031	10 8478 032 007 055
	16	a loading only	10 8478 032 007 003	10 8478 032 007 027	10 8478 032 007 051
	30 + 2	fully loaded + ground	10 8478 032 107 001	10 8478 032 107 025	10 8478 032 107 049
23.2 mm (Y) Straight	32	a + b fully loaded	10 8478 032 008 001	10 8478 032 008 025	10 8478 032 008 049
	16	a + b even loading	10 8478 032 008 007	10 8478 032 008 031	10 8478 032 008 055
	16	a loading only	10 8478 032 008 003	10 8478 032 008 027	10 8478 032 008 051
	30 + 2	fully loaded + ground	10 8478 032 108 001	10 8478 032 108 025	10 8478 032 108 049
20.0 mm (Y) Straight	32	a + b fully loaded	10 8478 032 009 001	10 8478 032 009 025	10 8478 032 009 049
	16	a + b even loading	10 8478 032 009 007	10 8478 032 009 031	10 8478 032 009 055
	16	a loading only	10 8478 032 009 003	10 8478 032 009 027	10 8478 032 009 051
	30 + 2	fully loaded + ground	10 8478 032 109 001	10 8478 032 109 025	10 8478 032 109 049
3.9 mm (Y) Straight	32	a + b fully loaded	10 8478 032 031 001	10 8478 032 031 025	10 8478 032 031 049
	16	a + b even loading	10 8478 032 031 007	10 8478 032 031 031	10 8478 032 031 055
	16	a loading only	10 8478 032 031 003	10 8478 032 031 027	10 8478 032 031 051
3.0 mm (Y) Straight	32	a + b fully loaded	10 8478 032 031 001	10 8478 032 031 025	10 8478 032 031 049
	16	a + b even loading	10 8478 032 031 007	10 8478 032 031 031	10 8478 032 031 055
	16	a loading only	10 8478 032 031 003	10 8478 032 031 027	10 8478 032 031 051

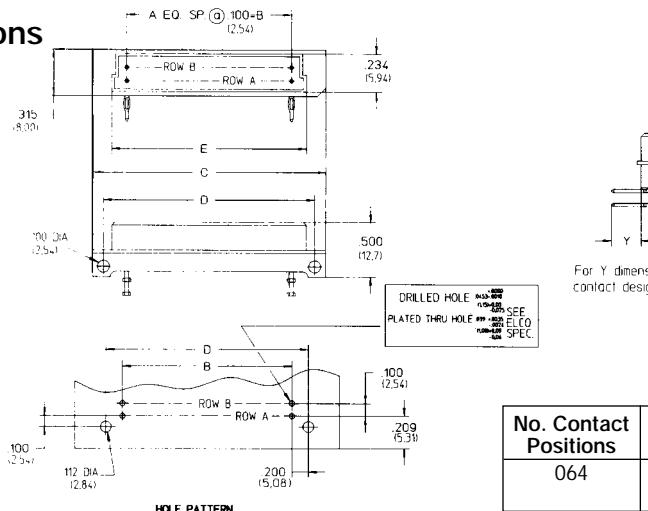
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DIN 41612 Connectors



Series 8478 – Female Style ½ Q Press-Fit - 2 Rows (2 x 16) Inverted - .100 Pitch

Dimensions



For Y dimension see
contact design

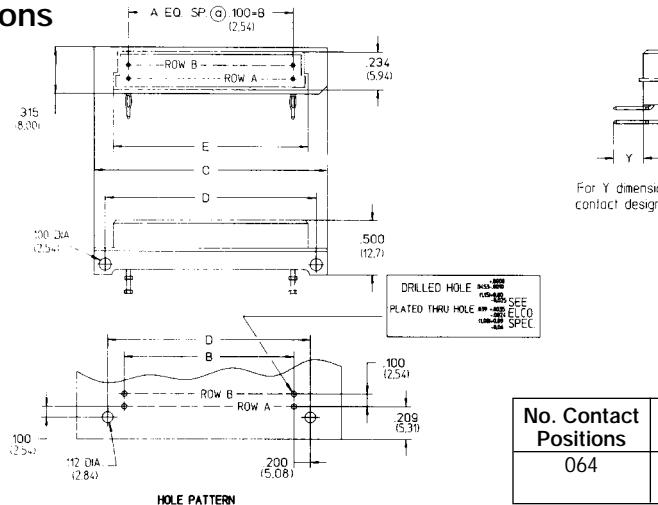
No. Contact Positions	Contact Rows	A	B	C	D	E
064	2 (2 x 32)	31	3.100 (78.74)	3.697 (93.90)	3.500 (88.90)	3.343 (84.91)

Inches (mm)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's	32	a + b fully loaded	20 8478 032 001 001	20 8478 032 001 025	20 8478 032 001 049
0.6 x 0.6 mm Post Profile	16	a + b even loading	20 8478 032 001 007	20 8478 032 001 031	20 8478 032 001 055
5.3 mm (Y) Right Angled	16	a loading only	20 8478 032 001 003	20 8478 032 001 027	20 8478 032 001 051
for 1.6 mm PCB's	32	a + b fully loaded	20 8478 032 031 001	20 8478 032 031 025	20 8478 032 031 049
0.6 x 0.6 mm Post Profile	16	a + b even loading	20 8478 032 031 007	20 8478 032 031 031	20 8478 032 031 055
2.9 mm (Y) Right Angled	16	a loading only	20 8478 032 031 003	20 8478 032 031 027	20 8478 032 031 051

Series 8478 – Female Style Q Press-Fit - 2 Rows (2 x 32) – Inverted - .100 Pitch

Dimensions



For Y dimension see
contact design

No. Contact Positions	Contact Rows	A	B	C	D	E
064	2 (2 x 32)	31	3.100 (78.74)	3.697 (93.90)	3.500 (88.90)	3.343 (84.91)

Inches (mm)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's	64	a + b fully loaded	20 8478 064 001 001	20 8478 064 001 025	20 8478 064 001 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	20 8478 064 001 007	20 8478 064 001 031	20 8478 064 001 055
5.3 mm (Y) Right Angled	32	a loading only	20 8478 064 001 003	20 8478 064 001 027	20 8478 064 001 051
for 1.6 mm PCB's	64	a + b fully loaded	20 8478 064 031 001	20 8478 064 031 025	20 8478 064 031 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	20 8478 064 031 007	20 8478 064 031 031	20 8478 064 031 055
2.9 mm (Y) Right Angled	32	a loading only	20 8478 064 031 003	20 8478 064 031 027	20 8478 064 031 051

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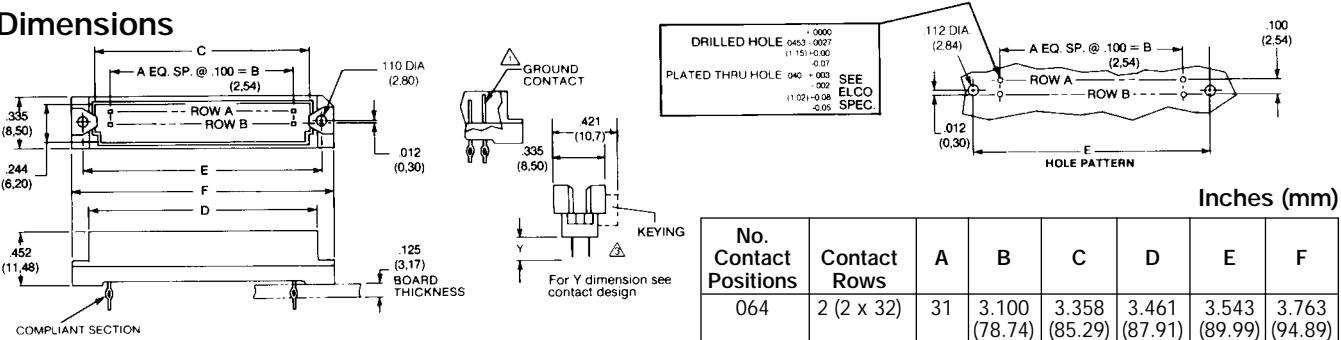
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DIN 41612 Connectors



Series 8478 – Male Style Q Press-Fit - 2 Rows (2 x 32) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's	64	a + b fully loaded	10 8478 064 001 001	10 8478 064 001 025	10 8478 064 001 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	10 8478 064 001 007	10 8478 064 001 031	10 8478 064 001 055
5.3 mm (Y) Straight	32	a loading only	10 8478 064 001 003	10 8478 064 001 027	10 8478 064 001 051
62 + 2	fully loaded + ground		10 8478 064 101 001	10 8478 064 101 025	10 8478 064 101 049
for ≥ 2.4 mm PCB's	64	a + b fully loaded	10 8478 064 002 001	10 8478 064 002 025	10 8478 064 002 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	10 8478 064 002 007	10 8478 064 002 031	10 8478 064 002 055
9.3 mm (Y) Straight	32	a loading only	10 8478 064 002 003	10 8478 064 002 027	10 8478 064 002 051
62 + 2	fully loaded + ground		10 8478 064 102 001	10 8478 064 102 025	10 8478 064 102 049
for ≥ 2.4 mm PCB's	64	a + b fully loaded	10 8478 064 003 001	10 8478 064 003 025	10 8478 064 003 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	10 8478 064 003 007	10 8478 064 003 031	10 8478 064 003 055
16.2 mm (Y) Straight	32	a loading only	10 8478 064 003 003	10 8478 064 003 027	10 8478 064 003 051
62 + 2	fully loaded + ground		10 8478 064 103 001	10 8478 064 103 025	10 8478 064 103 049
for ≥ 2.4 mm PCB's	64	a + b fully loaded	10 8478 064 004 001	10 8478 064 004 025	10 8478 064 004 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	10 8478 064 004 007	10 8478 064 004 031	10 8478 064 004 055
18.2 mm (Y) Straight	32	a loading only	10 8478 064 004 003	10 8478 064 004 027	10 8478 064 004 051
62 + 2	fully loaded + ground		10 8478 064 104 001	10 8478 064 104 025	10 8478 064 104 049
for ≥ 2.4 mm PCB's	64	a + b fully loaded	10 8478 064 005 001	10 8478 064 005 025	10 8478 064 005 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	10 8478 064 005 007	10 8478 064 005 031	10 8478 064 005 055
14.6 mm (Y) Straight	32	a loading only	10 8478 064 005 003	10 8478 064 005 027	10 8478 064 005 051
62 + 2	fully loaded + ground		10 8478 064 105 001	10 8478 064 105 025	10 8478 064 105 049
for ≥ 2.4 mm PCB's	64	a + b fully loaded	10 8478 064 006 001	10 8478 064 006 025	10 8478 064 006 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	10 8478 064 006 007	10 8478 064 006 031	10 8478 064 006 055
13.2 mm (Y) Straight	32	a loading only	10 8478 064 006 003	10 8478 064 006 027	10 8478 064 006 051
62 + 2	fully loaded + ground		10 8478 064 106 001	10 8478 064 106 025	10 8478 064 106 049
for ≥ 2.4 mm PCB's	64	a + b fully loaded	10 8478 064 007 001	10 8478 064 007 025	10 8478 064 007 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	10 8478 064 007 007	10 8478 064 007 031	10 8478 064 007 055
23.2 mm (Y) Straight	32	a loading only	10 8478 064 007 003	10 8478 064 007 027	10 8478 064 007 051
62 + 2	fully loaded + ground		10 8478 064 107 001	10 8478 064 107 025	10 8478 064 107 049
for ≥ 2.4 mm PCB's	64	a + b fully loaded	10 8478 064 008 001	10 8478 064 008 025	10 8478 064 008 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	10 8478 064 008 007	10 8478 064 008 031	10 8478 064 008 055
20.0 mm (Y) Straight	32	a loading only	10 8478 064 008 003	10 8478 064 008 027	10 8478 064 008 051
62 + 2	fully loaded + ground		10 8478 064 108 001	10 8478 064 108 025	10 8478 064 108 049
for ≥ 2.4 mm PCB's	64	a + b fully loaded	10 8478 064 009 001	10 8478 064 009 025	10 8478 064 009 049
0.6 x 0.6 mm Post Profile	32	a + b even loading	10 8478 064 009 007	10 8478 064 009 031	10 8478 064 009 055
3.9 mm (Y) Straight	32	a loading only	10 8478 064 009 003	10 8478 064 009 027	10 8478 064 009 051
62 + 2	fully loaded + ground		10 8478 064 109 001	10 8478 064 109 025	10 8478 064 109 049
for 1.6 mm PCB's	64	a + b fully loaded	10 8478 064 031 001	10 8478 064 031 025	10 8478 064 031 049
0.6 x 0.6 Post Profile	32	a + b even loading	10 8478 064 031 007	10 8478 064 031 031	10 8478 064 031 055
3.0 mm (Y) Straight	32	a loading only	10 8478 064 031 003	10 8478 064 031 027	10 8478 064 031 051
30 + 2	fully loaded + ground		10 8478 064 131 001	10 8478 064 131 025	10 8478 064 131 049

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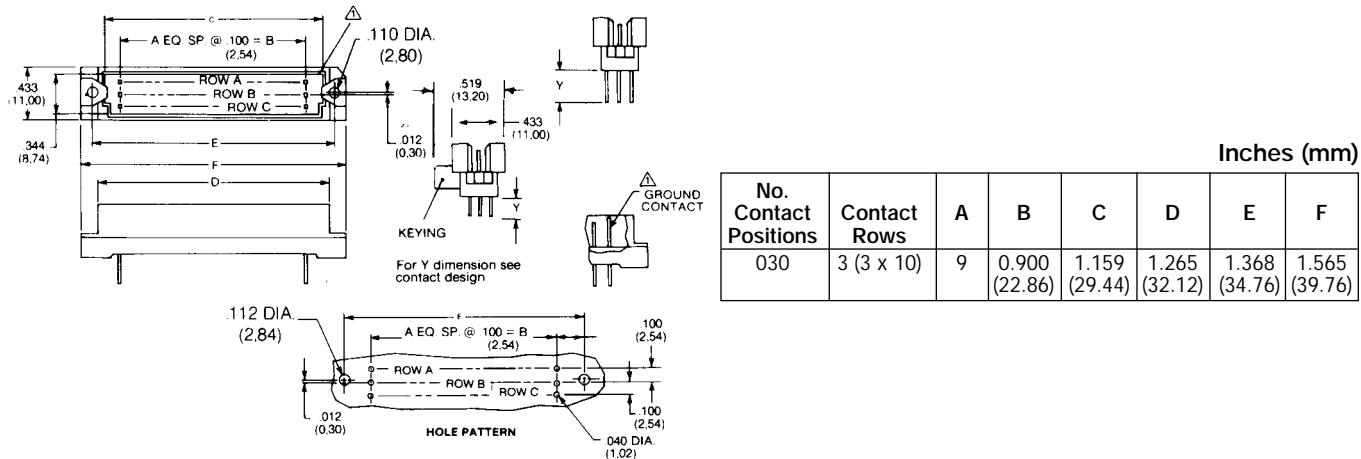
ELCO

DIN 41612 Connectors



**Series 8478 – Male Style $\frac{1}{3}$ R Press-Fit - 3 Rows (3 x 10)
Inverted - .100 Pitch**

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 5.3 mm (Y) Straight	30	a + b + c fully loaded	10 8478 030 001 001	10 8478 030 001 025	10 8478 030 001 049
	20	a + c fully loaded	10 8478 030 001 002	10 8478 030 001 026	10 8478 030 001 050
	28 + 2	fully loaded + ground	10 8478 030 101 001	10 8478 030 101 025	10 8478 030 101 049
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 9.3 mm (Y) Straight	30	a + b + c fully loaded	10 8478 030 002 001	10 8478 030 002 025	10 8478 030 002 049
	20	a + c fully loaded	10 8478 030 002 002	10 8478 030 002 026	10 8478 030 002 050
	28 + 2	fully loaded + ground	10 8478 030 102 001	10 8478 030 102 025	10 8478 030 102 049
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 16.2 mm (Y) Straight	30	a + b + c fully loaded	10 8478 030 003 001	10 8478 030 003 025	10 8478 030 003 049
	20	a + c fully loaded	10 8478 030 003 002	10 8478 030 003 026	10 8478 030 003 050
	28 + 2	fully loaded + ground	10 8478 030 103 001	10 8478 030 103 025	10 8478 030 103 049
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 18.2 mm (Y) Straight	30	a + b + c fully loaded	10 8478 030 004 001	10 8478 030 004 025	10 8478 030 004 049
	20	a + c fully loaded	10 8478 030 004 002	10 8478 030 004 026	10 8478 030 004 050
	28 + 2	fully loaded + ground	10 8478 030 104 001	10 8478 030 104 025	10 8478 030 104 049
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 14.6 mm (Y) Straight	30	a + b + c fully loaded	10 8478 030 005 001	10 8478 030 005 025	10 8478 030 005 049
	20	a + c fully loaded	10 8478 030 005 002	10 8478 030 005 026	10 8478 030 005 050
	28 + 2	fully loaded + ground	10 8478 030 105 001	10 8478 030 105 025	10 8478 030 105 049
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 13.2 mm (Y) Straight	30	a + b + c fully loaded	10 8478 030 006 001	10 8478 030 006 025	10 8478 030 006 049
	20	a + c fully loaded	10 8478 030 006 002	10 8478 030 006 026	10 8478 030 006 050
	28 + 2	fully loaded + ground	10 8478 030 106 001	10 8478 030 106 025	10 8478 030 106 049
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 23.2 mm (Y) Straight	30	a + b + c fully loaded	10 8478 030 007 001	10 8478 030 007 026	10 8478 030 007 049
	20	a + c fully loaded	10 8478 030 007 002	10 8478 030 007 026	10 8478 030 007 050
	28 + 2	fully loaded + ground	10 8478 030 107 001	10 8478 030 107 025	10 8478 030 107 049
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 20.0 mm (Y) Straight	30	a + b + c fully loaded	10 8478 030 008 001	10 8478 030 008 025	10 8478 030 008 049
	20	a + c fully loaded	10 8478 030 008 002	10 8478 030 008 026	10 8478 030 008 050
	28 + 2	fully loaded + ground	10 8478 030 108 001	10 8478 030 108 025	10 8478 030 108 049
for ≥ 2.4 mm PCB's 0.6 x 0.6 mm Post Profile 3.9 mm (Y) Straight	30	a + b + c fully loaded	10 8478 030 009 001	10 8478 030 009 025	10 8478 030 009 049
	20	a + c fully loaded	10 8478 030 009 002	10 8478 030 009 026	10 8478 030 009 050
	28 + 2	fully loaded + ground	10 8478 030 109 001	10 8478 030 109 025	10 8478 030 109 049
for 1.6 mm PCB's 0.6 x 0.6 mm Post Profile 3.0 mm (Y) Straight	30	a + b + c fully loaded	10 8478 030 031 001	10 8478 030 031 025	10 8478 030 031 049
	20	a + c fully loaded	10 8478 030 031 002	10 8478 030 031 026	10 8478 030 031 050

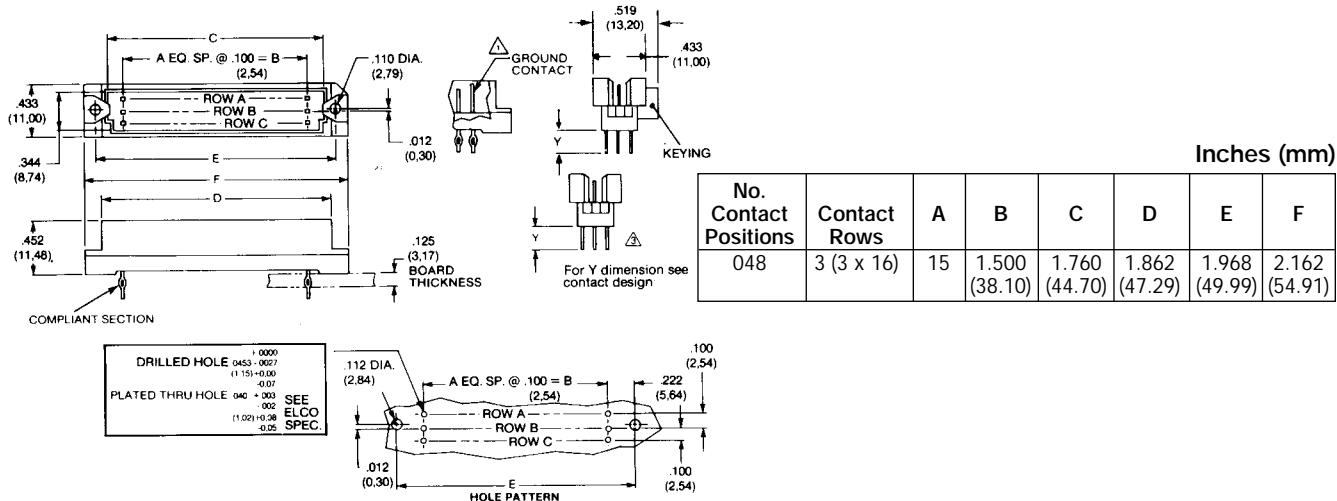
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DIN 41612 Connectors



Series 8478 – Male Style ½ R Press-Fit - 3 Rows (3 x 16) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's	48	a + b + c fully loaded	10 8478 048 001 001	10 8478 048 001 025	10 8478 048 001 049
0.6 x 0.6 mm Post Profile	32	a + c fully loaded	10 8478 048 001 002	10 8478 048 001 026	10 8478 048 001 050
5.3 mm (Y) Straight	46 + 2	fully loaded + ground	10 8478 048 101 001	10 8478 048 101 025	10 8478 048 101 049
for ≥ 2.4 mm PCB's	48	a + b + c fully loaded	10 8478 048 002 001	10 8478 048 002 025	10 8478 048 002 049
0.6 x 0.6 mm Post Profile	32	a + c fully loaded	10 8478 048 002 002	10 8478 048 002 026	10 8478 048 002 050
9.3 mm (Y) Straight	46 + 2	fully loaded + ground	10 8478 048 102 001	10 8478 048 102 025	10 8478 048 102 049
for ≥ 2.4 mm PCB's	48	a + b + c fully loaded	10 8478 048 003 001	10 8478 048 003 025	10 8478 048 003 049
0.6 x 0.6 mm Post Profile	32	a + c fully loaded	10 8478 048 003 002	10 8478 048 003 026	10 8478 048 003 050
16.2 mm (Y) Straight	46 + 2	fully loaded + ground	10 8478 048 103 001	10 8478 048 103 025	10 8478 048 103 049
for ≥ 2.4 mm PCB's	48	a + b + c fully loaded	10 8478 048 004 001	10 8478 048 004 025	10 8478 048 004 049
0.6 x 0.6 mm Post Profile	32	a + c fully loaded	10 8478 048 004 002	10 8478 048 004 026	10 8478 048 004 050
18.2 mm (Y) Straight	46 + 2	fully loaded + ground	10 8478 048 104 001	10 8478 048 104 025	10 8478 048 104 049
for ≥ 2.4 mm PCB's	48	a + b + c fully loaded	10 8478 048 005 001	10 8478 048 005 025	10 8478 048 005 049
0.6 x 0.6 mm Post Profile	32	a + c fully loaded	10 8478 048 005 002	10 8478 048 005 026	10 8478 048 005 050
14.6 mm (Y) Straight	46 + 2	fully loaded + ground	10 8478 048 105 001	10 8478 048 105 025	10 8478 048 105 049
for ≥ 2.4 mm PCB's	48	a + b + c fully loaded	10 8478 048 006 001	10 8478 048 006 025	10 8478 048 006 049
0.6 x 0.6 mm Post Profile	32	a + c fully loaded	10 8478 048 006 002	10 8478 048 006 026	10 8478 048 006 050
13.2 mm (Y) Straight	46 + 2	fully loaded + ground	10 8478 048 106 001	10 8478 048 106 025	10 8478 048 106 049
for ≥ 2.4 mm PCB's	48	a + b + c fully loaded	10 8478 048 007 001	10 8478 048 007 026	10 8478 048 007 049
0.6 x 0.6 mm Post Profile	32	a + c fully loaded	10 8478 048 007 002	10 8478 048 007 026	10 8478 048 007 050
23.2 mm (Y) Straight	46 + 2	fully loaded + ground	10 8478 048 107 001	10 8478 048 107 025	10 8478 048 107 049
for > 2.4 mm PCB's	48	a + b + c fully loaded	10 8478 048 008 001	10 8478 048 008 025	10 8478 048 008 049
0.6 x 0.6 mm Post Profile	32	a + c fully loaded	10 8478 048 008 002	10 8478 048 008 026	10 8478 048 008 050
20.0 mm (Y) Straight	46 + 2	fully loaded + ground	10 8478 048 108 001	10 8478 048 108 025	10 8478 048 108 049
for ≥ 2.4 mm PCB's	48	a + b + c fully loaded	10 8478 048 009 001	10 8478 048 009 025	10 8478 048 009 049
0.6 x 0.6 mm Post Profile	32	a + c fully loaded	10 8478 048 009 002	10 8478 048 009 026	10 8478 048 009 050
3.9 mm (Y) Straight	46 + 2	fully loaded + ground	10 8478 048 109 001	10 8478 048 109 025	10 8478 048 109 049
for 1.6 mm PCB's					
0.6 x 0.6 mm Post Profile	48	a + b + c fully loaded	10 8478 048 031 001	10 8478 048 031 025	10 8478 048 031 049
3.0 mm (Y) Straight	32	a + c fully loaded	10 8478 048 031 002	10 8478 048 031 026	10 8478 048 031 050

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
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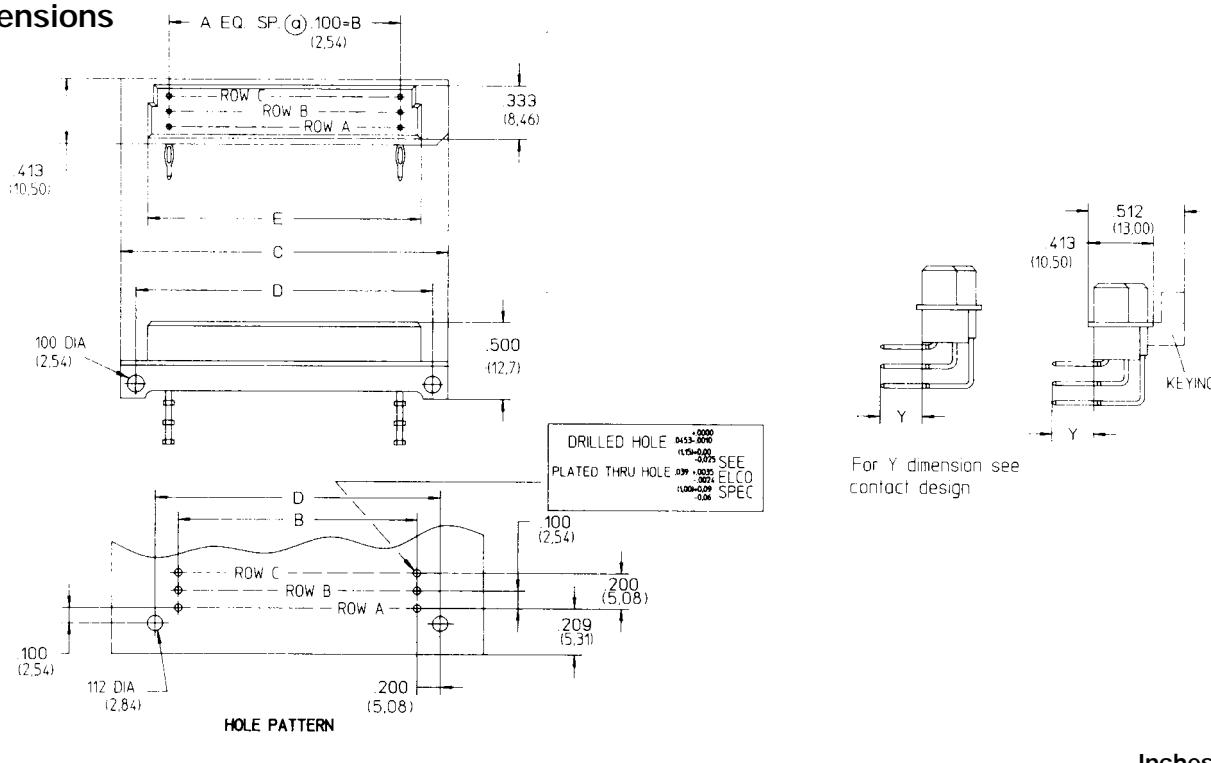
ELCO

DIN 41612 Connectors



Series 8478 - Female Style 1/2 R Press-Fit - 3 Rows (3 x 16) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
048	3 (3 x 16)	31	1.500 (38.10)	2.122 (53.90)	1.900 (48.26)	1.744 (44.30)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	48	a + b + c fully loaded	20 8478 048 001 001	20 8478 048 001 025	20 8478 048 001 049
5.3 mm (Y) Right Angled	32	a + c fully loaded	20 8478 048 001 002	20 8478 048 001 026	20 8478 048 001 050
for 1.6 mm PCB's					
0.6 x 0.6 mm Post Profile	48	a + b + c fully loaded	20 8478 048 031 001	20 8478 048 031 025	20 8478 048 031 049
2.9 mm (Y) Right Angled	32	a + c fully loaded	20 8478 048 031 002	20 8478 048 031 026	20 8478 048 031 050

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #237. Visit our website <http://www.avxcorp.com>

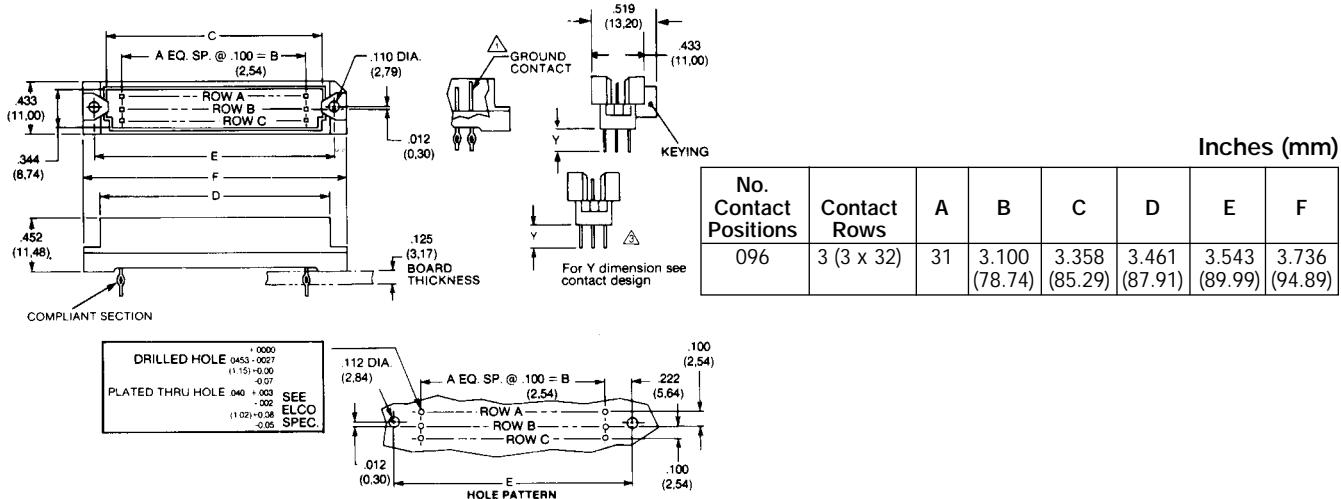
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DIN 41612 Connectors



Series 8478 – Male Style R Press-Fit - 3 Rows (3 x 32) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's	96	a + b + c fully loaded	10 8478 096 001 001	10 8478 096 001 025	10 8478 096 001 049
0.6 x 0.6 mm Post Profile	64	a + c fully loaded	10 8478 096 001 002	10 8478 096 001 026	10 8478 096 001 050
5.3 mm (Y) Straight	94 + 2	fully loaded + ground	10 8478 096 101 001	10 8478 096 101 025	10 8478 096 101 049
for ≥ 2.4 mm PCB's	96	a + b + c fully loaded	10 8478 096 002 001	10 8478 096 002 025	10 8478 096 002 049
0.6 x 0.6 mm Post Profile	64	a + c fully loaded	10 8478 096 002 002	10 8478 096 002 026	10 8478 096 002 050
9.3 mm (Y) Straight	94 + 2	fully loaded + ground	10 8478 096 102 001	10 8478 096 102 025	10 8478 096 102 049
for ≥ 2.4 mm PCB's	96	a + b + c fully loaded	10 8478 096 003 001	10 8478 096 003 025	10 8478 096 003 049
0.6 x 0.6 mm Post Profile	64	a + c fully loaded	10 8478 096 003 002	10 8478 096 003 026	10 8478 096 003 050
16.2 mm (Y) Straight	94 + 2	fully loaded + ground	10 8478 096 103 001	10 8478 096 103 025	10 8478 096 103 049
for ≥ 2.4 mm PCB's	96	a + b + c fully loaded	10 8478 096 004 001	10 8478 096 004 025	10 8478 096 004 049
0.6 x 0.6 mm Post Profile	64	a + c fully loaded	10 8478 096 004 002	10 8478 096 004 026	10 8478 096 004 050
18.2 mm (Y) Straight	94 + 2	fully loaded + ground	10 8478 096 104 001	10 8478 096 104 025	10 8478 096 104 049
for ≥ 2.4 mm PCB's	96	a + b + c fully loaded	10 8478 096 005 001	10 8478 096 005 025	10 8478 096 005 049
0.6 x 0.6 mm Post Profile	64	a + c fully loaded	10 8478 096 005 002	10 8478 096 005 026	10 8478 096 005 050
14.6 mm (Y) Straight	94 + 2	fully loaded + ground	10 8478 096 105 001	10 8478 096 105 025	10 8478 096 105 049
for ≥ 2.4 mm PCB's	96	a + b + c fully loaded	10 8478 096 006 001	10 8478 096 006 025	10 8478 096 006 049
0.6 x 0.6 mm Post Profile	64	a + c fully loaded	10 8478 096 006 002	10 8478 096 006 026	10 8478 096 006 050
13.2 mm (Y) Straight	94 + 2	fully loaded + ground	10 8478 096 106 001	10 8478 096 106 025	10 8478 096 106 049
for ≥ 2.4 mm PCB's	96	a + b + c fully loaded	10 8478 096 007 001	10 8478 096 007 026	10 8478 096 007 049
0.6 x 0.6 mm Post Profile	64	a + c fully loaded	10 8478 096 007 002	10 8478 096 007 026	10 8478 096 007 050
23.2 mm (Y) Straight	94 + 2	fully loaded + ground	10 8478 096 107 001	10 8478 096 107 025	10 8478 096 107 049
for ≥ 2.4 mm PCB's	96	a + b + c fully loaded	10 8478 096 008 001	10 8478 096 008 025	10 8478 096 008 049
0.6 x 0.6 mm Post Profile	64	a + c fully loaded	10 8478 096 008 002	10 8478 096 008 026	10 8478 096 008 050
20.0 mm (Y) Straight	94 + 2	fully loaded + ground	10 8478 096 108 001	10 8478 096 108 025	10 8478 096 108 049
for ≥ 2.4 mm PCB's	96	a + b + c fully loaded	10 8478 096 009 001	10 8478 096 009 025	10 8478 096 009 049
0.6 x 0.6 mm Post Profile	64	a + c fully loaded	10 8478 096 009 002	10 8478 096 009 026	10 8478 096 009 050
3.9 mm (Y) Straight	94 + 2	fully loaded + ground	10 8478 096 109 001	10 8478 096 109 025	10 8478 096 109 049
for 1.6 mm PCB's					
0.6 x 0.6 Post Profile	96	a + b + c fully loaded	10 8478 096 031 001	10 8478 096 031 025	10 8478 096 031 049
3.0 mm (Y) Straight	64	a + c fully loaded	10 8478 096 031 002	10 8478 096 031 026	10 8478 096 031 050

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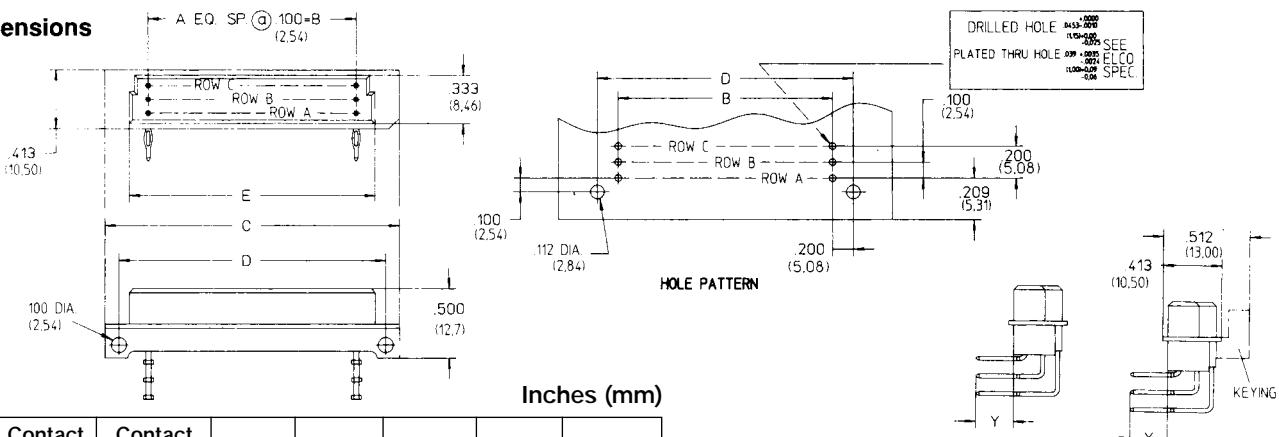
ELCO

DIN 41612 Connectors



Series 8478 - Female Style R Press-Fit - 3 Rows (3 x 32) Inverted - .100 Pitch

Dimensions

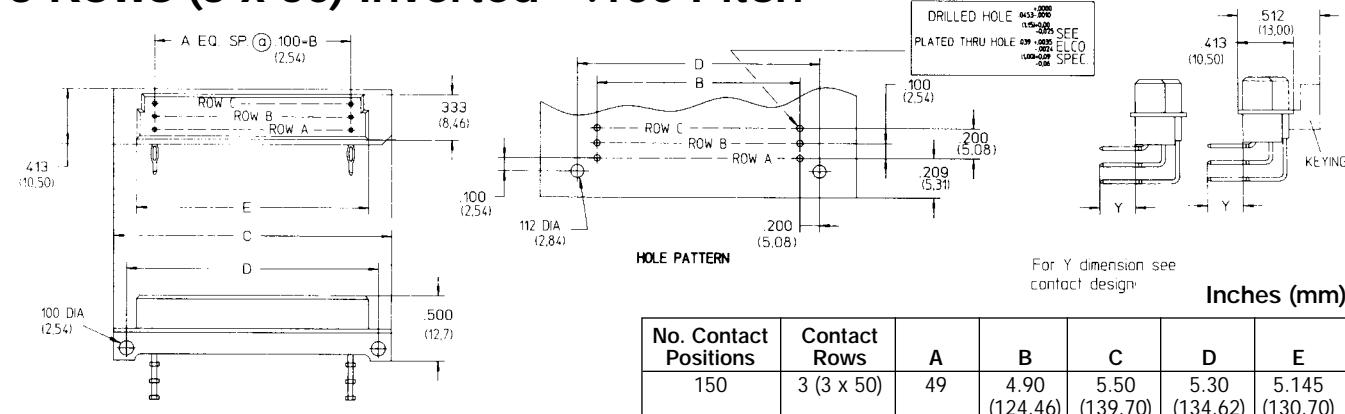


No. Contact Positions	Contact Rows	A	B	C	D	E
096	3 (3 x 32)	31	3.100 (78.74)	3.697 (93.90)	3.500 (88.90)	3.343 (84.91)

For Y dimension see contact design

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's	96	a + b + c fully loaded	20 8478 096 001 001	20 8478 096 001 025	20 8478 096 001 049
	64	a + c fully loaded	20 8478 096 001 002	20 8478 096 001 026	20 8478 096 001 050
	32	a + c even loading	20 8478 096 001 009	20 8478 096 001 033	20 8478 096 001 057
	32	a loading only	20 8478 096 001 003	20 8478 096 001 027	20 8478 096 001 051
for 1.6 mm PCB's	96	a + b + c fully loaded	20 8478 096 031 001	20 8478 096 031 025	20 8478 096 031 049
	64	a + c fully loaded	20 8478 096 031 002	20 8478 096 031 026	20 8478 096 031 050
	32	a + c even loading	20 8478 096 031 009	20 8478 096 031 033	20 8478 096 031 057
	32	a loading only	20 8478 096 031 003	20 8478 096 031 027	20 8478 096 031 051

Series 8478 - Female Style R Expanded Press-Fit - 3 Rows (3 x 50) Inverted - .100 Pitch



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's					
	150	a + b + c fully loaded	20 8478 150 001 001	20 8478 150 001 025	20 8478 150 001 049
	100	a + c fully loaded	20 8478 150 001 002	20 8478 150 001 026	20 8478 150 001 050
for 1.6 mm PCB's					
	150	a + b + c fully loaded	20 8478 150 031 001	20 8478 150 031 025	20 8478 150 031 049
	100	a + c fully loaded	20 8478 150 031 002	20 8478 150 031 026	20 8478 150 031 050

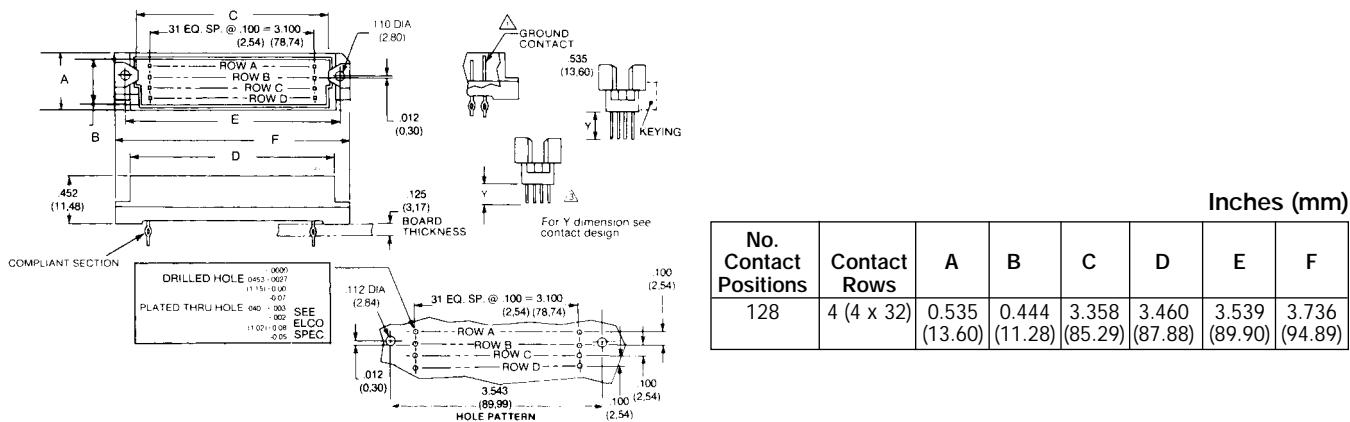
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DIN 41612 Connectors



Series 8478 – Male Style R Expanded Press-Fit - 4 Rows (4 x 32) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	10 8478 128 001 001	10 8478 128 001 025	10 8478 128 001 049
5.3 mm (Y) Straight	126 + 2	fully loaded + ground	10 8478 128 101 001	10 8478 128 101 025	10 8478 128 101 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	10 8478 128 002 001	10 8478 128 002 025	10 8478 128 002 049
9.3 mm (Y) Straight	126 + 2	fully loaded + ground	10 8478 128 102 001	10 8478 128 102 025	10 8478 128 102 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	10 8478 128 003 001	10 8478 128 003 025	10 8478 128 003 049
16.2 mm (Y) Straight	126 + 2	fully loaded + ground	10 8478 128 103 001	10 8478 128 103 025	10 8478 128 103 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	10 8478 128 004 001	10 8478 128 004 025	10 8478 128 004 049
18.2 mm (Y) Straight	126 + 2	fully loaded + ground	10 8478 128 104 001	10 8478 128 104 025	10 8478 128 104 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	10 8478 128 005 001	10 8478 128 005 025	10 8478 128 005 049
14.6 mm (Y) Straight	126 + 2	fully loaded + ground	10 8478 128 105 001	10 8478 128 105 025	10 8478 128 105 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	10 8478 128 006 001	10 8478 128 006 025	10 8478 128 006 049
13.2 mm (Y) Straight	126 + 2	fully loaded + ground	10 8478 128 106 001	10 8478 128 106 025	10 8478 128 106 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	10 8478 128 007 001	10 8478 128 007 025	10 8478 128 007 049
23.2 mm (Y) Straight	126 + 2	fully loaded + ground	10 8478 128 107 001	10 8478 128 107 025	10 8478 128 107 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	10 8478 128 008 001	10 8478 128 008 025	10 8478 128 008 049
20.0 mm (Y) Straight	126 + 2	fully loaded + ground	10 8478 128 108 001	10 8478 128 108 025	10 8478 128 108 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	128	a + b + c + d fully loaded	10 8478 128 009 001	10 8478 128 009 025	10 8478 128 009 049
3.9 mm (Y) Straight	126 + 2	fully loaded + ground	10 8478 128 109 001	10 8478 128 109 025	10 8478 128 109 049

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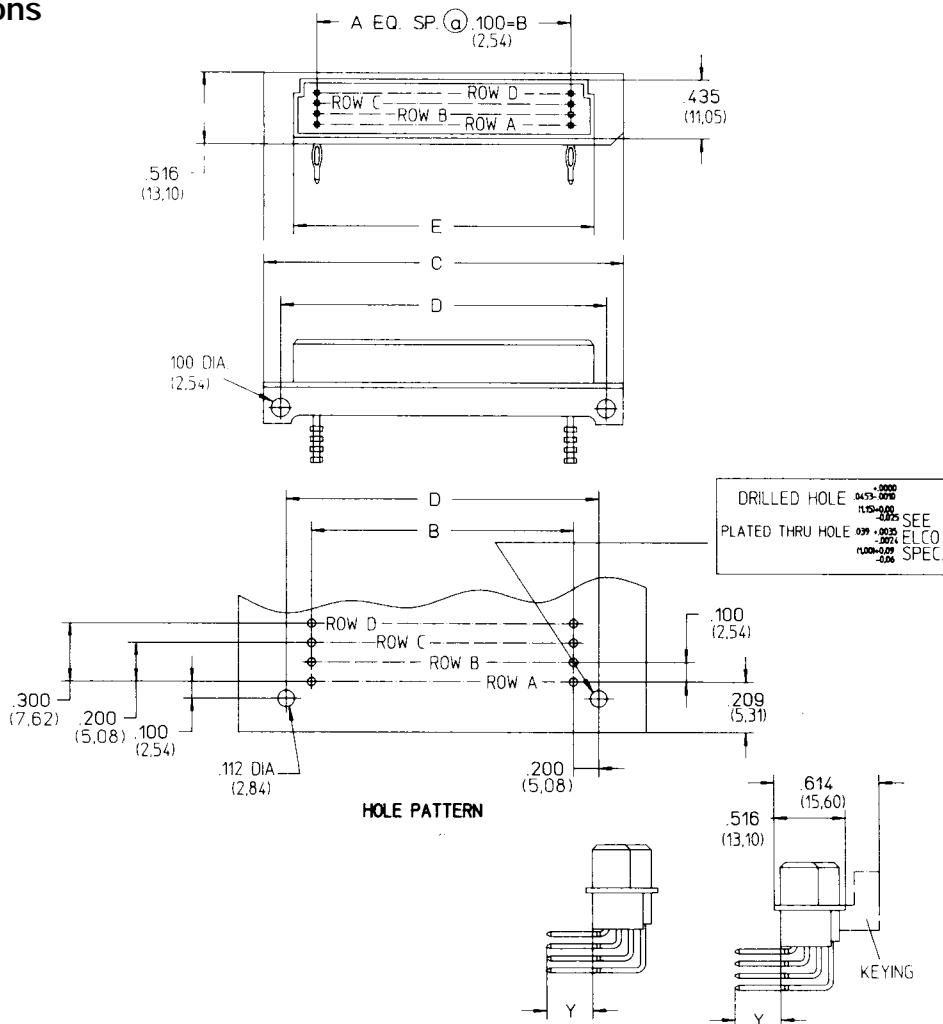
ELCO

DIN 41612 Connectors



Series 8478 - Female Style R Expanded Press-Fit - 4 Rows (4 x 32) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
128	4 (4 x 32)	31	3.100 (78.74)	3.697 (93.90)	3.500 (88.90)	3.343 (84.91)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile					
5.3 mm (Y) Right Angled					
	128	a + b + c + d fully loaded	20 8478 128 001 001	20 8478 128 001 025	20 8478 128 001 049
for 1.6 mm PCB's					
0.6 x 0.6 mm Post Profile					
5.3 mm (Y) Right Angled					
	128	a + b + c + d fully loaded	20 8478 128 031 001	20 8478 128 031 025	20 8478 128 031 049

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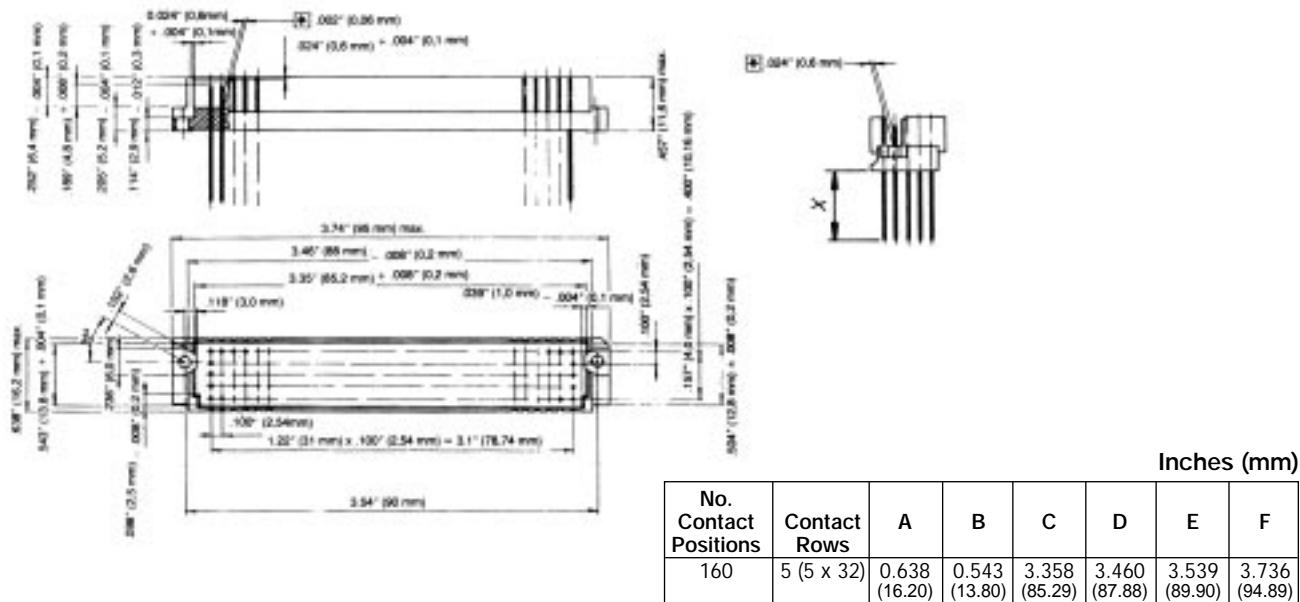
ELCO

DIN 41612 Connectors



Series 8478 – Male Style R Expanded Press-Fit – 5 Rows (5 x 32) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	10 8478 160 001 001	10 8478 160 001 025	10 8478 160 001 049
5.3 mm (Y) Straight	158 + 2	fully loaded + ground	10 8478 160 101 001	10 8478 160 101 025	10 8478 160 101 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	10 8478 160 002 001	10 8478 160 002 025	10 8478 160 002 049
9.3 mm (Y) Straight	158 + 2	fully loaded + ground	10 8478 160 102 001	10 8478 160 102 025	10 8478 160 102 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	10 8478 160 003 001	10 8478 160 003 025	10 8478 160 003 049
16.2 mm (Y) Straight	158 + 2	fully loaded + ground	10 8478 160 103 001	10 8478 160 103 025	10 8478 160 103 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	10 8478 160 004 001	10 8478 160 004 025	10 8478 160 004 049
18.2 mm (Y) Straight	158 + 2	fully loaded + ground	10 8478 160 104 001	10 8478 160 104 025	10 8478 160 104 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	10 8478 160 005 001	10 8478 160 005 025	10 8478 160 005 049
14.6 mm (Y) Straight	158 + 2	fully loaded + ground	10 8478 160 105 001	10 8478 160 105 025	10 8478 160 105 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	10 8478 160 006 001	10 8478 160 006 025	10 8478 160 006 049
13.2 mm (Y) Straight	158 + 2	fully loaded + ground	10 8478 160 106 001	10 8478 160 106 025	10 8478 160 106 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	10 8478 160 007 001	10 8478 160 007 025	10 8478 160 007 049
23.2 mm (Y) Straight	158 + 2	fully loaded + ground	10 8478 160 107 001	10 8478 160 107 025	10 8478 160 107 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	10 8478 160 008 001	10 8478 160 008 025	10 8478 160 008 049
20.0 mm (Y) Straight	158 + 2	fully loaded + ground	10 8478 160 108 001	10 8478 160 108 025	10 8478 160 108 049
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	10 8478 160 009 001	10 8478 160 009 025	10 8478 160 009 049
3.9 mm (Y) Straight	158 + 2	fully loaded + ground	10 8478 160 109 001	10 8478 160 109 025	10 8478 160 109 049

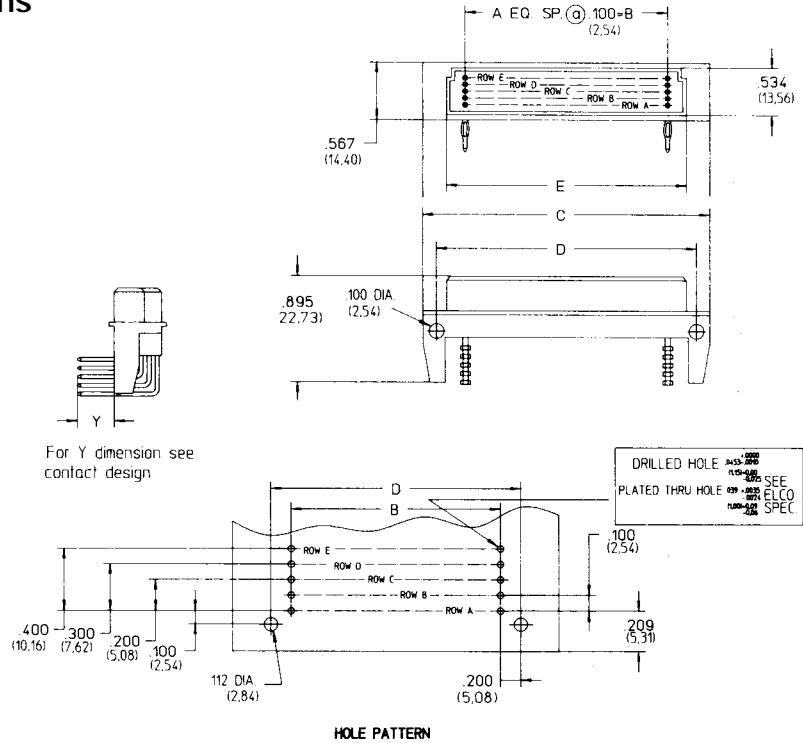
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DIN 41612 Connectors



Series 8478 – Female Style R Expanded Press-Fit - 5 Rows (5 x 32) Inverted - .100 Pitch

Dimensions



Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
160	5 (5 x 32)	.31	3.100 (78.74)	3.700 (94.00)	3.500 (88.90)	3.346 (85.00)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
for ≥ 2.4 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8478 160 001 001	20 8478 160 001 025	20 8478 160 001 049
5.3 mm (Y) Right Angled					
for 1.6 mm PCB's					
0.6 x 0.6 mm Post Profile	160	a + b + c + d + e fully loaded	20 8478 160 031 001	20 8478 160 031 025	20 8478 160 031 049
2.9 mm (Y) Right Angled					

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #243. Visit our website <http://www.avxcorp.com>

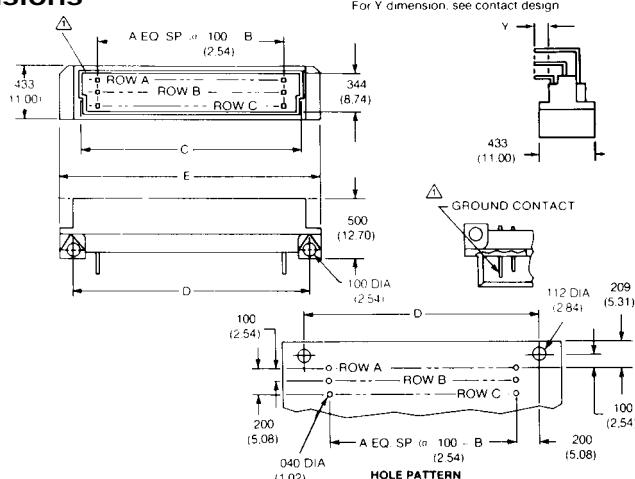
ELCO

DIN 41612 Connectors



Series 8557 - Male Style $\frac{1}{2}$ C High Temperature - 3 Rows (3 x 16) - .100 Pitch

Dimensions



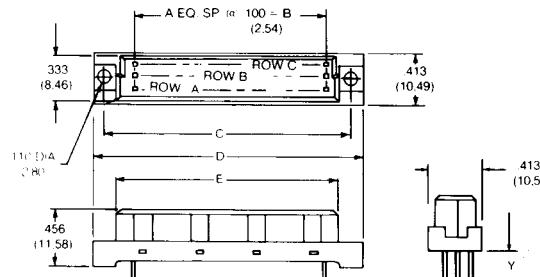
Inches (mm)

No. Contact Positions	Contact Rows	A	B	C	D	E
048	3 (3 x 16)	15	1.500 (38.10)	1.760 (44.70)	1.900 (48.26)	2.122 (53.90)

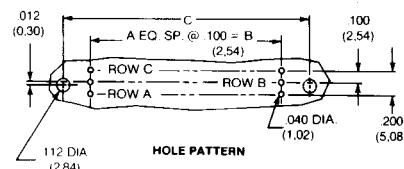
Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
			10 8557 048 001 001	10 8557 048 001 025	10 8557 048 001 049
3.4 mm (Y) Straight	48	a + b + c fully loaded	10 8557 048 001 001	10 8557 048 001 025	10 8557 048 001 049
	32	a + c fully loaded	10 8557 048 001 002	10 8557 048 001 026	10 8557 048 001 050
	16	a loading only	10 8557 048 001 003	10 8557 048 001 027	10 8557 048 001 051
3.0 mm (Y) Right Angled	48	a + b + c fully loaded	10 8557 048 002 001	10 8557 048 002 025	10 8557 048 002 049
	32	a + c fully loaded	10 8557 048 002 002	10 8557 048 002 026	10 8557 048 002 050
	16	a loading only	10 8557 048 002 003	10 8557 048 002 027	10 8557 048 002 051
	46 + 2	fully loaded + ground	10 8557 048 102 001	10 8557 048 102 025	10 8557 048 102 049
2.3 mm (Y) Right Angled	48	a + b + c fully loaded	10 8557 048 008 001	10 8557 048 008 025	10 8557 048 008 049
	32	a + c fully loaded	10 8557 048 008 002	10 8557 048 008 026	10 8557 048 008 050
	16	a loading only	10 8557 048 008 003	10 8557 048 008 027	10 8557 048 008 051

Series 8557 - Female Style $\frac{1}{2}$ C High Temperature - 3 Rows (3 x 16) - .100 Pitch

Dimensions



For Y dimension see contact design



No. Contact Positions	Contact Rows	A	B	C	D	E
048	3 (3 x 16)	15	1.500 (38.10)	1.969 (50.01)	2.161 (54.89)	1.744 (44.30)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
			20 8557 048 001 001	20 8557 048 001 025	20 8557 048 001 049
0.6 x 0.6 mm Post Profile 4.5 mm (Y) Straight	48	a + b + c fully loaded	20 8557 048 001 001	20 8557 048 001 025	20 8557 048 001 049
	32	a + c fully loaded	20 8557 048 001 002	20 8557 048 001 026	20 8557 048 001 050
	16	a loading only	20 8557 048 001 003	20 8557 048 001 027	20 8557 048 001 051
0.6 x 0.6 mm Post Profile 2.9 mm (Y) Straight	48	a + b + c fully loaded	20 8557 048 002 001	20 8557 048 002 025	20 8557 048 002 049
	32	a + c fully loaded	20 8557 048 002 002	20 8557 048 002 026	20 8557 048 002 050
	16	a loading only	20 8557 048 002 003	20 8557 048 002 027	20 8557 048 002 051

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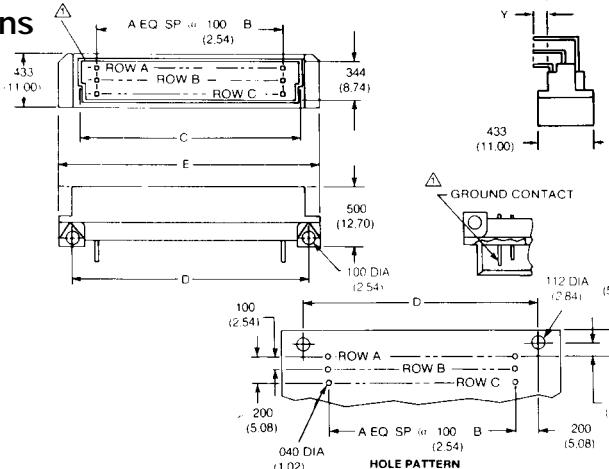
ELCO

DIN 41612 Connectors



Series 8557 - Male Style C High Temperature - 3 Rows (3 x 32) - .100 Pitch

Dimensions

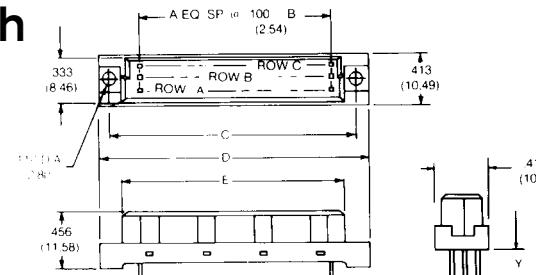


Inches (mm)						
No. Contact Positions	Contact Rows	A	B	C	D	E
096	3 (3 x 32)	31	3.100 (78.74)	3.358 (85.29)	3.500 (88.90)	3.697 (93.90)

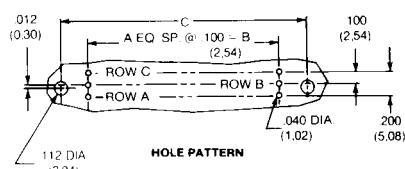
Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
3.4 mm (Y) Straight	96	a + b + c fully loaded	10 8557 096 001 001	10 8557 096 001 025	10 8557 096 001 049
	64	a + c fully loaded	10 8557 096 001 002	10 8557 096 001 026	10 8557 096 001 050
	32	a + c even loading	10 8557 096 001 009	10 8557 096 001 033	10 8557 096 001 057
	32	a loading only	10 8557 096 001 003	10 8557 096 001 027	10 8557 096 001 051
3.0 mm (Y) Right Angled	96	a + b + c fully loaded	10 8557 096 002 001	10 8557 096 002 025	10 8557 096 002 049
	64	a + c fully loaded	10 8557 096 002 002	10 8557 096 002 026	10 8557 096 002 050
	32	a + c even loading	10 8557 096 002 009	10 8557 096 002 033	10 8557 096 002 057
	32	a loading only	10 8557 096 002 003	10 8557 096 002 027	10 8557 096 002 051
	94 + 2	fully loaded + ground	10 8557 096 101 001	10 8557 096 101 025	10 8557 096 101 049
2.3 mm (Y) Right Angled	96	a + b + c fully loaded	10 8557 096 008 001	10 8557 096 008 025	10 8557 096 008 049
	64	a + c fully loaded	10 8557 096 008 002	10 8557 096 008 026	10 8557 096 008 050
	32	a + c even loading	10 8557 096 008 009	10 8557 096 008 033	10 8557 096 008 057
	32	a loading only	10 8557 096 008 003	10 8557 096 008 027	10 8557 096 008 051

Series 8557 - Female Style C High Temperature - 3 Rows (3 x 32) - .100 Pitch

Dimensions



For Y dimension see contact design



No. Contact Positions	Contact Rows	A	B	C	D	E
096	3 (3 x 32)	31	3.100 (78.74)	3.543 (89.99)	3.736 (94.89)	3.343 (84.91)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.3 x 0.79 mm Post Profile 4.5 mm (Y) Straight	96	a + b + c fully loaded	20 8557 096 001 001	20 8557 096 001 025	20 8557 096 001 049
	64	a + c fully loaded	20 8557 096 001 002	20 8557 096 001 026	20 8557 096 001 050
	32	a + c even loading	20 8557 096 001 009	20 8557 096 001 033	20 8557 096 001 057
	32	a loading only	20 8557 096 001 003	20 8557 096 001 027	20 8557 096 001 051
0.3 x 0.79 mm Post Profile 2.9 mm (Y) Straight	96	a + b + c fully loaded	20 8557 096 002 001	20 8557 096 002 025	20 8557 096 002 049
	64	a + c fully loaded	20 8557 096 002 002	20 8557 096 002 026	20 8557 096 002 050
	32	a + c even loading	20 8557 096 002 009	20 8557 096 002 033	20 8557 096 002 057
	32	a loading only	20 8557 096 002 003	20 8557 096 002 027	20 8557 096 002 051

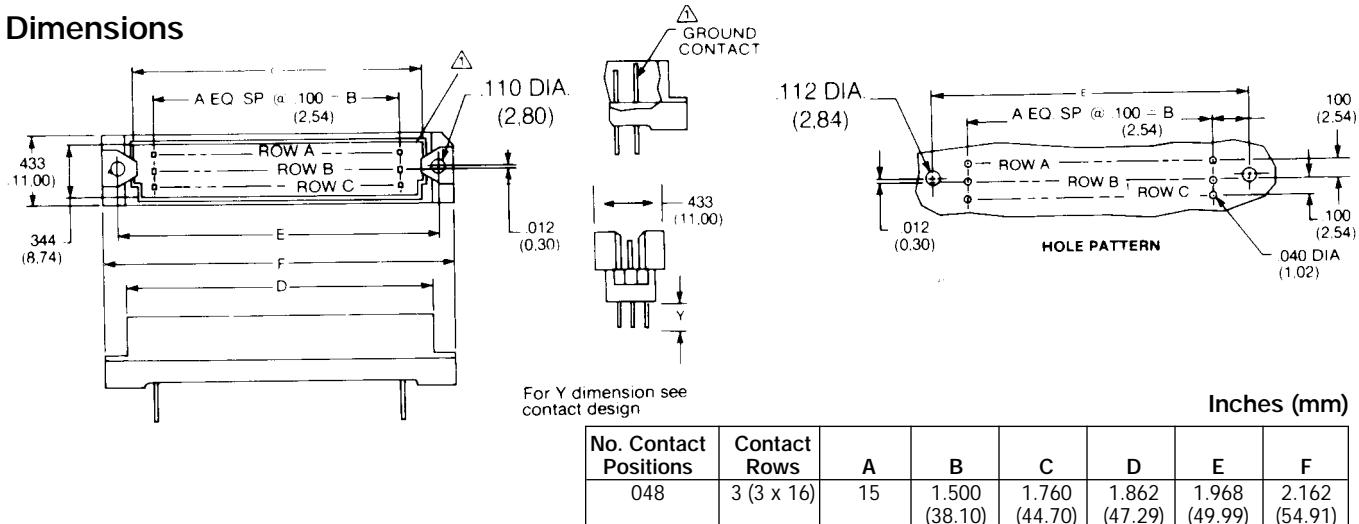
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #245.
Visit our website <http://www.avxcorp.com>

DIN 41612 Connectors



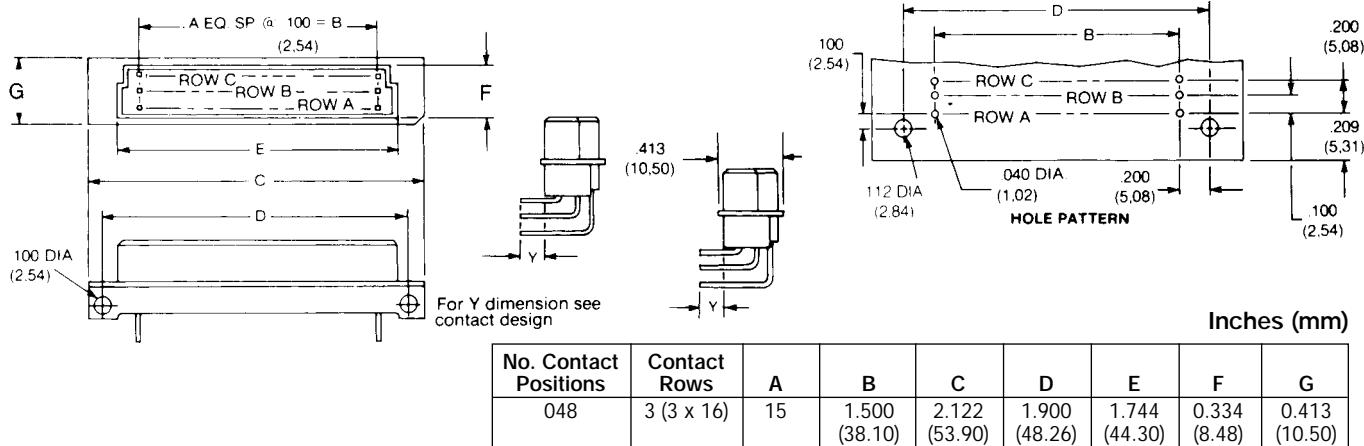
Series 8577 - Male Style 1/2 R High Temperature - 3 Rows (3 x 16) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
2.9 mm (Y) Straight	48	a + b + c fully loaded	10 8577 048 001 001	10 8577 048 001 025	10 8577 048 001 049
	32	a + c fully loaded	10 8577 048 001 002	10 8577 048 001 026	10 8577 048 001 050
	16	a + c even loading	10 8577 048 001 009	10 8577 048 001 033	10 8577 048 001 057
	16	a loading only	10 8577 048 001 003	10 8577 048 001 027	10 8577 048 001 051
	46 + 2	fully loaded + ground	10 9577 048 101 001	10 8577 048 101 025	10 8577 048 101 049
4.5 mm (Y) Straight	48	a + b + c fully loaded	10 8577 048 002 001	10 8577 048 002 025	10 8577 048 002 049
	32	a + c fully loaded	10 8577 048 002 002	10 8577 048 002 026	10 8577 048 002 050
	16	a + c even loading	10 8577 048 002 009	10 8577 048 002 033	10 8577 048 002 057
	16	a loading only	10 8577 048 002 003	10 8577 048 002 027	10 8577 048 002 051
	46 + 2	fully loaded + ground	10 8577 048 102 001	10 8577 048 102 025	10 8577 048 102 049

Series 8577 - Female Style 1/2 R High Temperature - 3 Rows (3 x 16) Inverted - .100 Pitch



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled	48	a + b + c fully loaded	20 8577 048 002 001	20 8577 048 002 025	20 8577 048 002 049
	32	a + c fully loaded	20 8577 048 002 002	20 8577 048 002 026	20 8577 048 002 050
	16	a + c even loading	20 8577 048 002 009	20 8577 048 002 033	20 8577 048 002 057
	16	a loading only	20 8577 048 002 003	20 8577 048 002 027	20 8577 048 002 051
	48	a + b + c fully loaded	20 8577 048 006 001	20 8577 048 006 025	20 8577 048 006 049
0.3 x 0.79 mm Post Profile 3.0 mm (Y) Right Angled	32	a + c fully loaded	20 8577 048 006 002	20 8577 048 006 026	20 8577 048 006 050
	16	a + c even loading	20 8577 048 006 009	20 8577 048 006 033	20 8577 048 006 057
	16	a loading only	20 8577 048 006 003	20 8577 048 006 027	20 8577 048 006 051

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #246.
Visit our website <http://www.avxcorp.com>

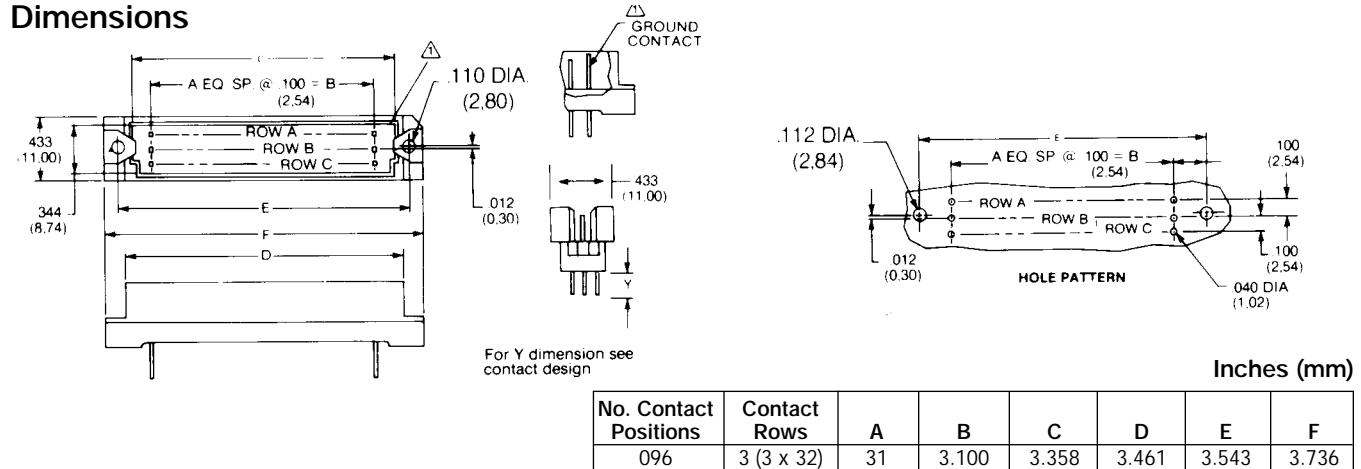
ELCO

DIN 41612 Connectors



Series 8577 - Male Style R High Temperature - 3 Rows (3 x 32) Inverted - .100 Pitch

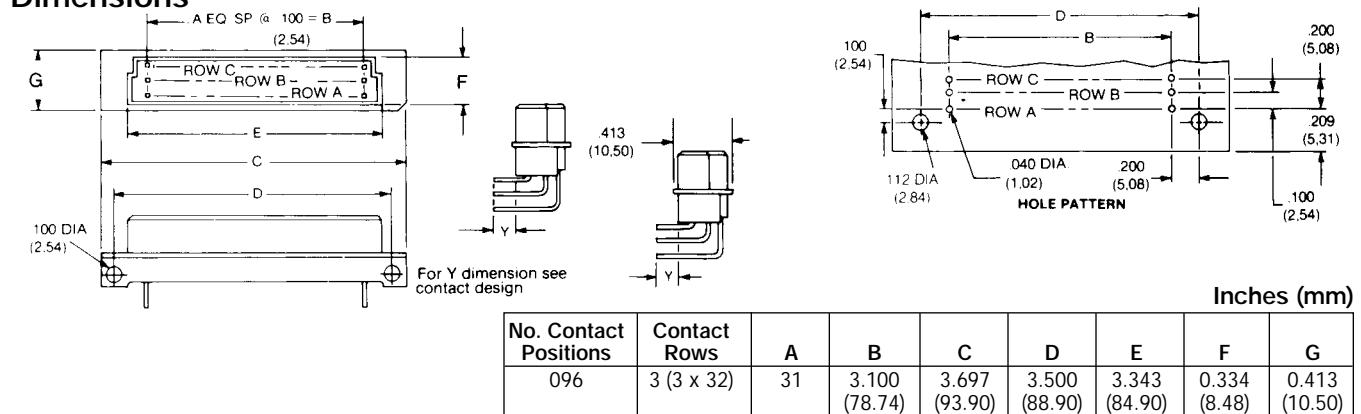
Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
2.9 mm (Y) Straight	96	a + b + c fully loaded	10 8577 096 001 001	10 8577 096 001 025	10 8577 096 001 049
	64	a + c fully loaded	10 8577 096 001 002	10 8577 096 001 026	10 8577 096 001 050
	32	a + c even loading	10 8577 096 001 009	10 8577 096 001 033	10 8577 096 001 057
	32	a loading only	10 8577 096 001 003	10 8577 096 001 027	10 8577 096 001 051
	46 + 2	fully loaded + ground	10 9577 096 101 001	10 8577 096 101 025	10 8577 096 101 049
4.5 mm (Y) Straight	48	a + b + c fully loaded	10 8577 096 002 001	10 8577 096 002 025	10 8577 096 002 049
	32	a + c fully loaded	10 8577 096 002 002	10 8577 096 002 026	10 8577 096 002 050
	16	a + c even loading	10 8577 096 002 009	10 8577 096 002 033	10 8577 096 002 057
	16	a loading only	10 8577 096 002 003	10 8577 096 002 027	10 8577 096 002 051
	46 + 2	fully loaded + ground	10 8577 096 102 001	10 8577 096 102 025	10 8577 096 102 049

Series 8577 - Female Style R High Temperature - 3 Rows (3 x 32) Inverted - .100 Pitch

Dimensions



Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled	96	a + b + c fully loaded	20 8577 096 002 001	20 8577 096 002 025	20 8577 096 002 049
	64	a + c fully loaded	20 8577 096 002 002	20 8577 096 002 026	20 8577 096 002 050
	32	a + c even loading	20 8577 096 002 009	20 8577 096 002 033	20 8577 096 002 057
	32	a loading only	20 8577 096 002 003	20 8577 096 002 027	20 8577 096 002 051
	96	a + b + c fully loaded	20 8577 096 006 001	20 8577 096 006 025	20 8577 096 006 049
0.3 x 0.79 mm Post Profile 3.0 mm (Y) Right Angled	64	a + c fully loaded	20 8577 096 006 002	20 8577 096 006 026	20 8577 096 006 050
	32	a + c even loading	20 8577 096 006 009	20 8577 096 006 033	20 8577 096 006 057
	32	a loading only	20 8577 096 006 003	20 8577 096 006 027	20 8577 096 006 051

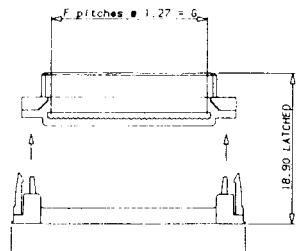
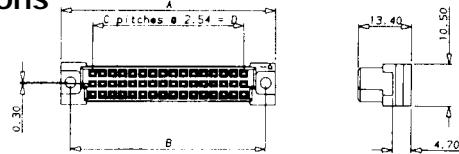
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #247. Visit our website <http://www.avxcorp.com>

DIN 41612 Connectors



Series 8459 - Female Style 1/2 IDC - 3 Rows (3 x 16) - .100 Pitch

Dimensions

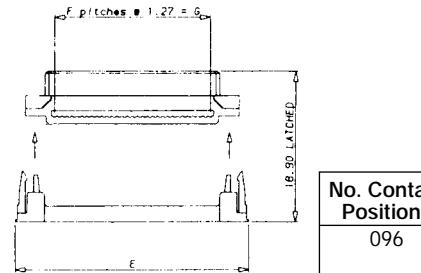
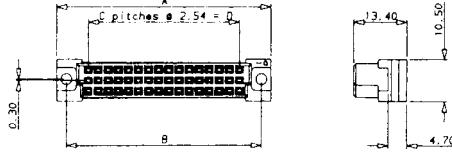


No. Contact Positions	Contact Rows	Inches (mm)						
		A	B	C	D	F	G	
048	3 (3 x 16)	2.161 (54.90)	1.968 (50.00)	0.591 (15.00)	1.500 (38.10)	2.362 (60.00)	1.220 (31.00)	1.550 (39.37)

Variation	Number of Contact Cavities	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
			20 8459 048 001 002	20 8459 048 001 026	20 8459 048 001 050
Without strain relief	48	a + c fully loaded	20 8459 048 002 002	20 8459 048 002 026	20 8459 048 002 050

Series 8549 - Female Style C IDC - 3 Rows (3 x 32) - .100 Pitch

Dimensions



No. Contact Positions	Contact Rows	Inches (mm)						
		A	B	C	D	F	G	
096	3 (3 x 32)	3.736 (94.90)	3.543 (90.00)	1.220 (31.00)	3.100 (78.74)	3.937 (100.00)	2.480 (63.00)	3.150 (80.01)

Variation	Number of Contact Cavities	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
			20 8459 096 001 002	20 8459 096 001 026	20 8459 096 001 050
Without strain relief	96	a + c fully loaded	20 8459 096 002 002	20 8459 096 002 026	20 8459 096 002 050

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #248. Visit our website <http://www.avxcorp.com>

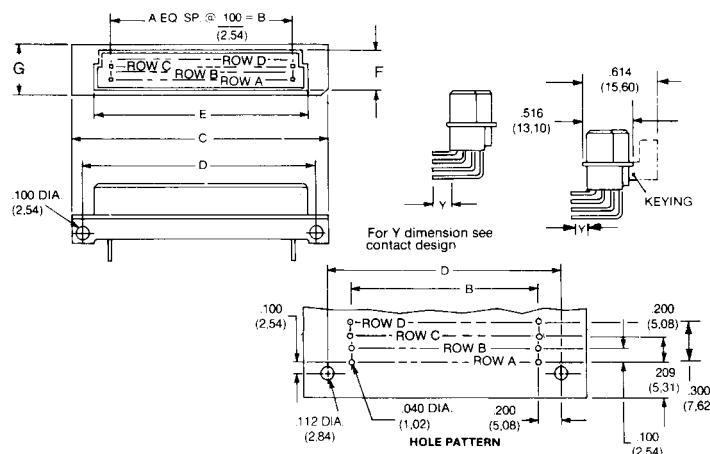
ELCO

DIN 41612 Connectors



Series 8577 - Female Style R Expanded High Temperature - 4 Rows (4 x 32) Inverted - .100 Pitch

Dimensions

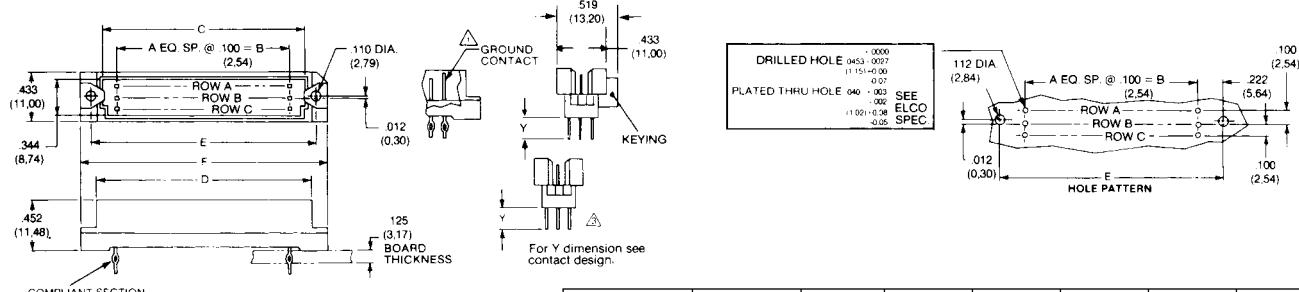


No. Contact Positions	Contact Rows	A	B	C	D	E	F	G
128	4 (4 x 32)	31	3.100 (78.74)	3.697 (93.90)	3.500 (88.90)	3.343 (84.90)	0.437 (11.10)	0.516 (13.10)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled					
	128	a + b + c + d fully loaded	20 8577 128 002 001	20 8577 128 002 025	20 8577 128 002 049
0.6 x 0.6 mm Post Profile 3.0 mm (Y) Right Angled					
	128	a + b + c + d fully loaded	20 8577 128 006 001	20 8577 128 006 025	20 8577 128 006 049

Series 8577 - Female Style R Expanded High Temperature - 3 Rows (3 x 50) Inverted - .100 Pitch

Dimensions



No. Contact Positions	Contact Rows	A	B	C	D	E	F
150	3 (3 x 50)	49	4.941 (125.50)	5.154 (130.90)	5.260 (133.60)	5.343 (135.70)	5.536 (140.60)

Contact Design and Termination Length	Number of Positions	Loading Description	Part Number Performance classes according to DIN 41612		
			III	II	I
0.6 x 0.6 mm Post Profile 2.8 mm (Y) Right Angled					
	150	a + b + c fully loaded	20 8577 150 001 001	20 8577 150 001 025	20 8577 150 001 049
0.6 x 0.6 mm Post Profile 2.8 mm (Y) Right Angled					
	100	a + c fully loaded	20 8577 150 001 002	20 8577 150 001 026	20 8577 150 001 050

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #249. Visit our website <http://www.avxcorp.com>

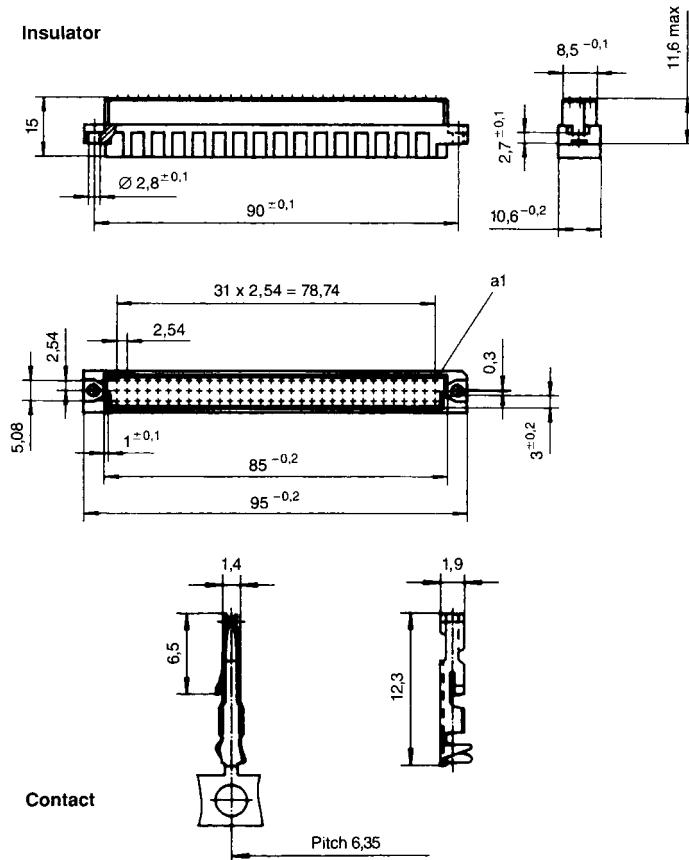
ELCO

DIN 41612 Connectors



Series 8464 - Female Style C Crimp - 3 Rows (3 x 32) - .100 Pitch

Dimensions



Contact Design	Number of Positions	Loading Description	Part Number
Crimp	96	Insulator without keying	20 8464 096 001 000
	96	Insulator with keying	22 8464 096 001 000
		Contacts for 8464 on 10K reel	60 8464 0213 99 742
		Loose contacts for 8464	60 8464 0213 00 742
Tools		Hand tool	06 8464 0101 00 000
		Crimping machine including applicator	06 7865 5200 00 000
		Insert for hand crimp tool	06 8464 8201 00 000
		Extraction tool	06 8464 8101 00 000

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #250. Visit our website <http://www.avxcorp.com>

Board To Board Connector Overview



Fine Pitch Microleaf Board To Board Connectors

Pitch	Series	Soldering DIP	SMT	ST/ST	Direction ST/RA	RA/RA	Position Number	Stack Height	Current Rating	Voltage Rating	Standard Packaging	Description
2.54mm	9072	O		O			20P~60P	12~20	3A	300V	Tray	Post and Box Style
1.27mm	5061/5061	O		O	O	O	20P~120P	12~20	0.5A	250V	Tray	
	5072/5061	O	50,80,100P	O	O	O	20P~200P	12~20	0.5A	250V	Tray	SMT 50,80,100P H=14mm (st+st only)
1.00mm	5015		O	O			64P	8~15	0.5A	250V	250p/Reel	Mezzanine card conn (IEEE1386)
	5077		O	O			30P~60P	8~12/19/22	0.5A	125V	450,500p/Reel	
	5078		O	O	O	O	30P~120P	5	0.5A	100V	1Kpcs/Reel, Tray	
0.80mm	8375		O	O			16/22/28P	3	0.5A	50V	1Kpcs/Reel	Gold and Tin Plating
0.50mm	5046		O	O			20P~120P	3.5/4.0/4.5	0.4A	50V	1Kpcs/Reel	
	5047		O	O			20P~120P	5.0/6.0/7.0	0.4A	50V	1Kpcs/Reel	
	5087		O	O			20P~100P/140P	2.0/2.5	0.4A	50V	1Kpcs/Reel	

One Piece Solo Stacker™ Board To Board Connectors

No. of Contacts	Nominal Stack Height (mm)							
	2.00	2.20	2.40	2.60	3.00	3.20	4.00	5.00
4 way							•	
16 way	•*	•*	•*	•*				
18 way							•	
20 way	•*	•*	•*	•*				
24 way	•*	•*	•*	•*				
28 way	•*	•*	•*	•*		•		
30 way								•
32 way								
34 way	•							

*Denotes that part is currently being tooled.
All stack height dimensions are nominal.
Tolerance varies depending on application.

Connectors can be supplied with or without location bosses.
Cells with grey shading denote that part is custom special.
Custom options available.

Torsion Style Board To Board Connectors

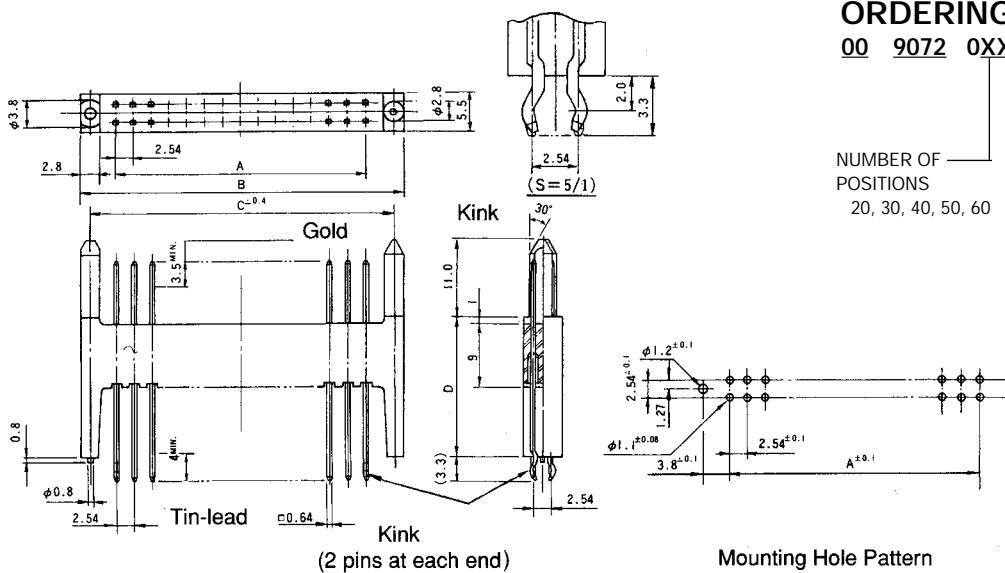
Part No. Prefix	Description	Board/Board Stacking Height mm
24-5016	Receptacle: SMT	1.52
12-5016	Header: Through-Hole	
22-5016	Receptacle: Through-Hole	2.21
15-5016	Header: Pin Carrier	
23-5016	Receptacle: SMT	2.21
15-5016	Header: Pin Carrier	
22-5016	Receptacle: Through-Hole	3.73
12-5016	Header: Through-Hole	
23-5016	Receptacle: SMT	3.73
12-5016	Header: Through-Hole	
23-5016	Receptacle: SMT	4.28
17-5016	Header: SMT	

Part No. Prefix	Description	Board/Board Stacking Height mm
22-5016	Receptacle: Through-Hole	4.28
17-5016	Header: SMT	
21-5016	Receptacle: SMT	6.09
10-5016	Header: Through-Hole	
20-5016-2XXX-10	Receptacle: Through-Hole	6.09
10-5016	Header: Through-Hole	
20-5016-2XXX-10	Receptacle: Through-Hole	6.73
11-5016	Header: SMT	
21-5016	Receptacle: SMT	6.73
11-5016	Header	

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #251. Visit our website <http://www.avxcorp.com>

Board Stacking Connectors 2.54mm Pitch

Series 9072 Plug



ORDERING CODE

00 9072 0XX XXX 8XX

NUMBER OF POSITIONS
20, 30, 40, 50, 60

— FINISHING CODE
(Gold-Mating Area)
883 = Au 0.1µm Min.
885 = Au 0.25µm Min.

VARIATION CODE
301 = Height Between Boards
"D" 12.0mm (0.472")
401 = Height Between Boards
"D" 15.0mm (0.591")
501 = Height Between Boards
"D" 18.0mm (0.709")
101 = Height Between Boards
"D" 20.0mm (0.787")

No. of Positions	A	B	C
20	22.86	33.26	30.46
30	35.56	45.96	43.16
40	48.26	58.66	55.86
50	60.96	71.36	68.56
60	73.66	84.06	81.26

See Ordering Code about "D"

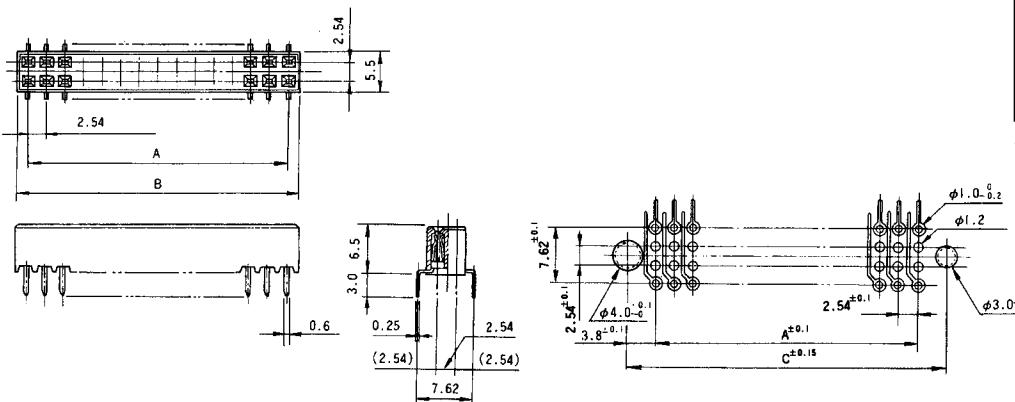
ORDERING CODE

00 9072 0XX 901 8XX

NUMBER OF POSITIONS
20, 30, 40, 50, 60

— FINISHING CODE
(Gold-Mating Area)
883 = Au 0.1µm Min.
885 = Au 0.25µm Min.

Series 9072 Receptacle



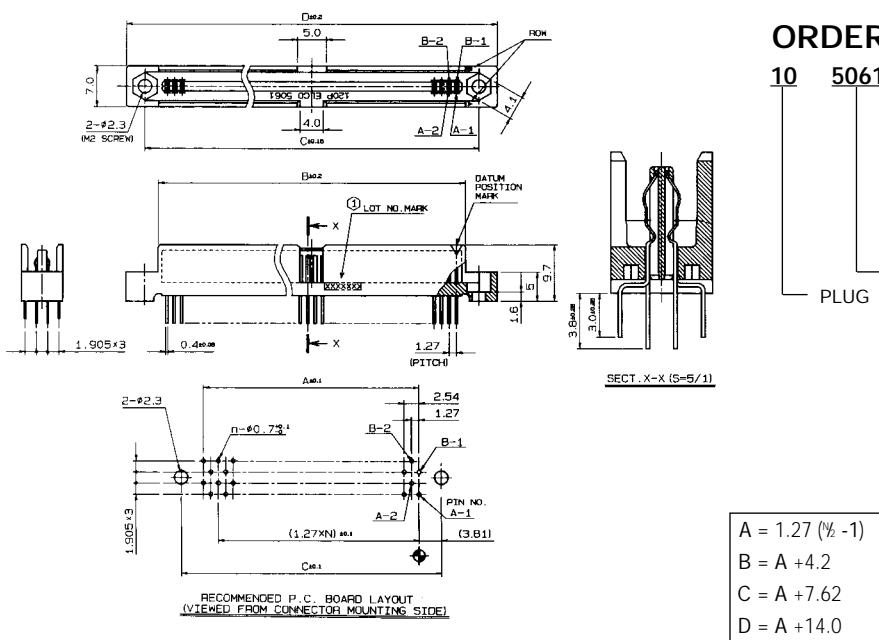
No. of Positions	A	B	C
20	22.86	25.86	30.46
30	35.56	38.56	43.16
40	48.26	51.26	55.86
50	60.96	63.96	68.56
60	73.66	76.66	81.26

Mounting Hole Pattern

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #252. Visit our website <http://www.avxcorp.com>

Microleaf Connectors 1.27mm Pitch

Series 5061 Plug Straight (With Flange)



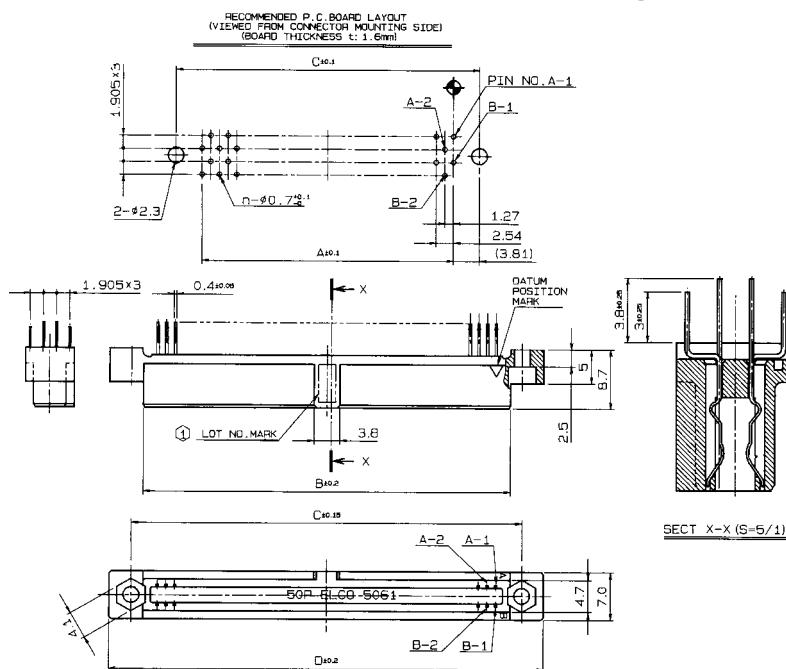
ORDERING CODE

002 **8XX**

 FINISH
 856 = Au 0.1µm
 861 = Au 0.25µm
 871 = Au 0.5µm
 VARIATION

$$\begin{aligned}A &= 1.27 (\% - 1) \\B &= A + 4.2 \\C &= A + 7.62 \\D &= A + 14.0\end{aligned}$$

Series 5061 Receptacle Straight (With Flange)



ORDERING CODE

052 8XX

 |

 | FINISH

 | 856 = Au 0.1 μ m

 | 861 = Au 0.25 μ m

 | 871 = Au 0.5 μ m

 |

 | VARIATION

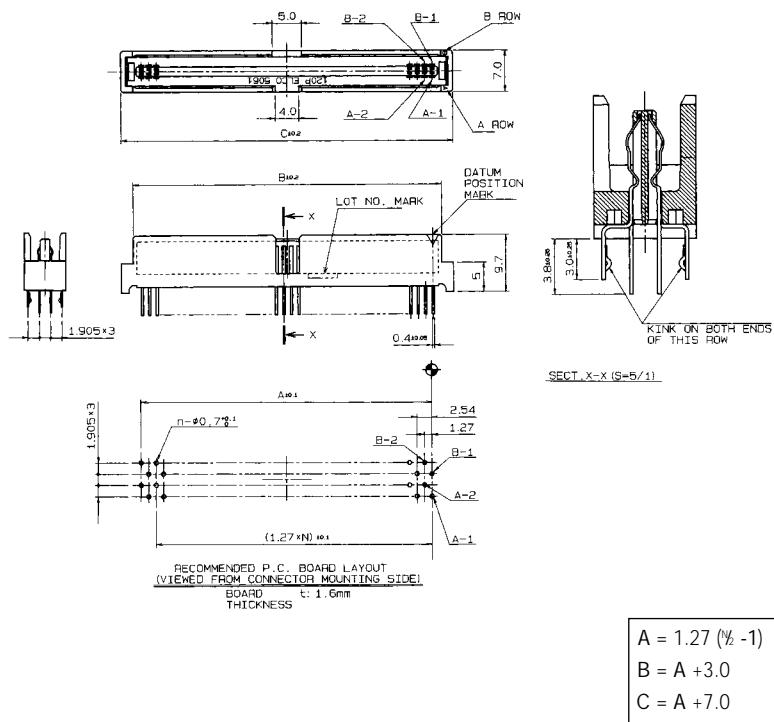
NO. OF POSITIONS
(20, 30, 40, 50, 60,
68 80 100 120)

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #253. Visit our website <http://www.avxcorp.com>

ELCO

Microleaf Connectors 1.27mm Pitch

Series 5061 Plug Straight (Without Flange)



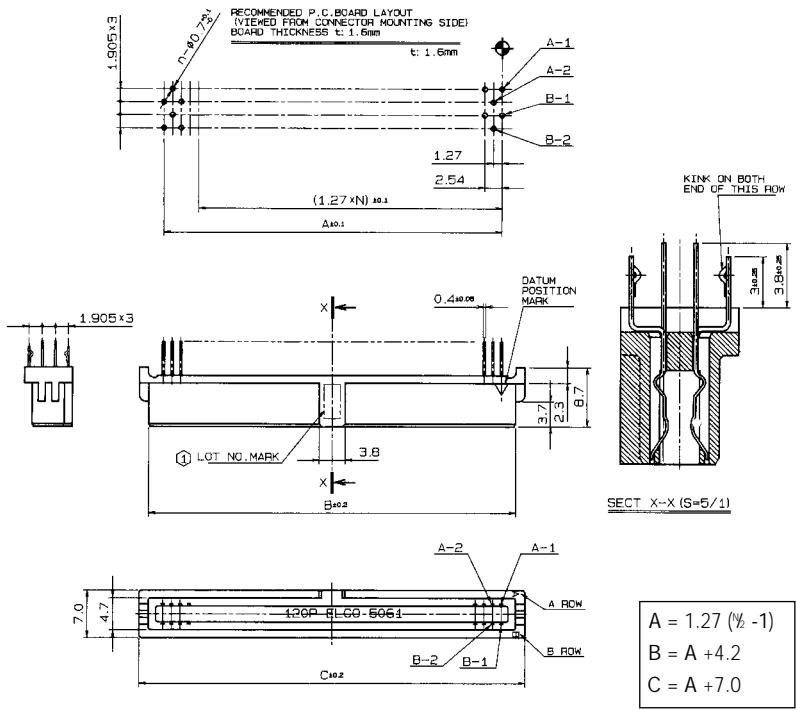
ORDERING CODE

10	5061	XXX	000	8XX
PLUG	SERIES			
				FINISH
				856 = Au 0.1µm 861 = Au 0.25µm 871 = Au 0.5µm

VARIATION

NO. OF POSITIONS
(20, 30, 40, 50, 60,
68, 80, 100, 120)

Series 5061 Receptacle Straight (Without Flange)



ORDERING CODE

20	5061	XXX	051	8XX
RECEPTACLE	SERIES			
				FINISH
				856 = Au 0.1µm 861 = Au 0.25µm 871 = Au 0.5µm

VARIATION

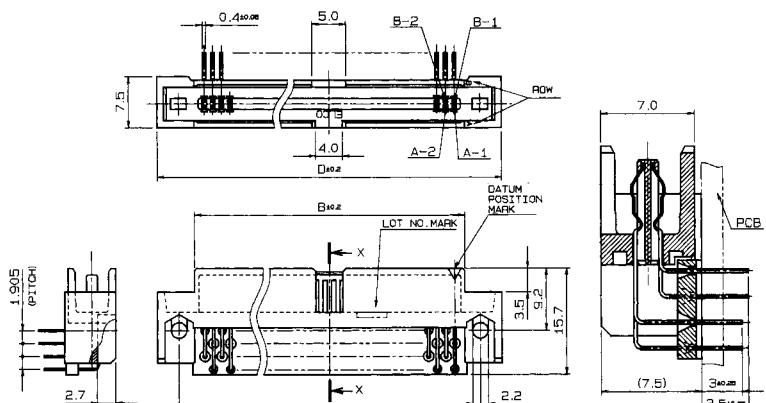
NO. OF POSITIONS
(20, 30, 40, 50, 60,
68, 80, 100, 120)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #254. Visit our website <http://www.avxcorp.com>

ELCO

Microleaf Connectors 1.27mm Pitch

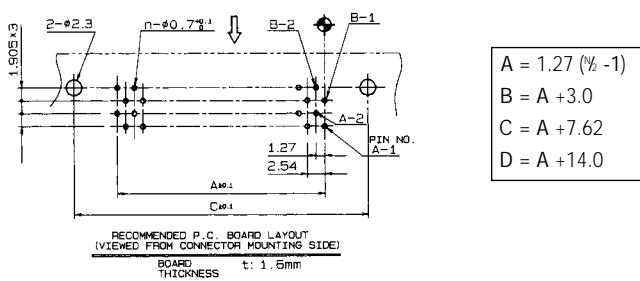
Series 5061 Plug Right Angle (With Flange)



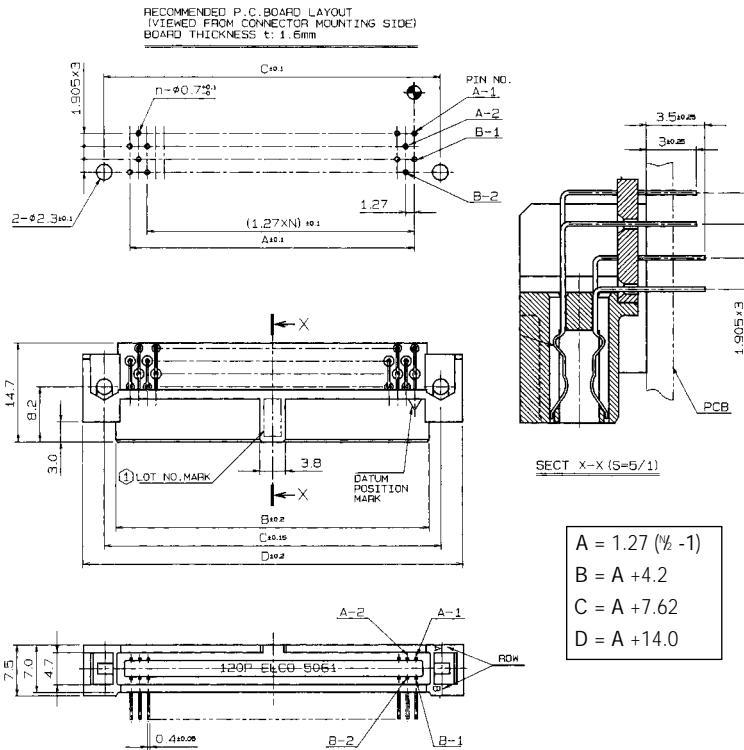
ORDERING CODE

10	5061	XX0	103	8XX
PLUG	SERIES	NO. OF POSITIONS (20, 30, 40, 50, 60, 80, 100, 120)	VARIATION	FINISH 856 = Au 0.1µm 861 = Au 0.25µm 871 = Au 0.5µm

SECT. X-X (S=4/1)



Series 5061 Receptacle Right Angle (With Flange)



ORDERING CODE

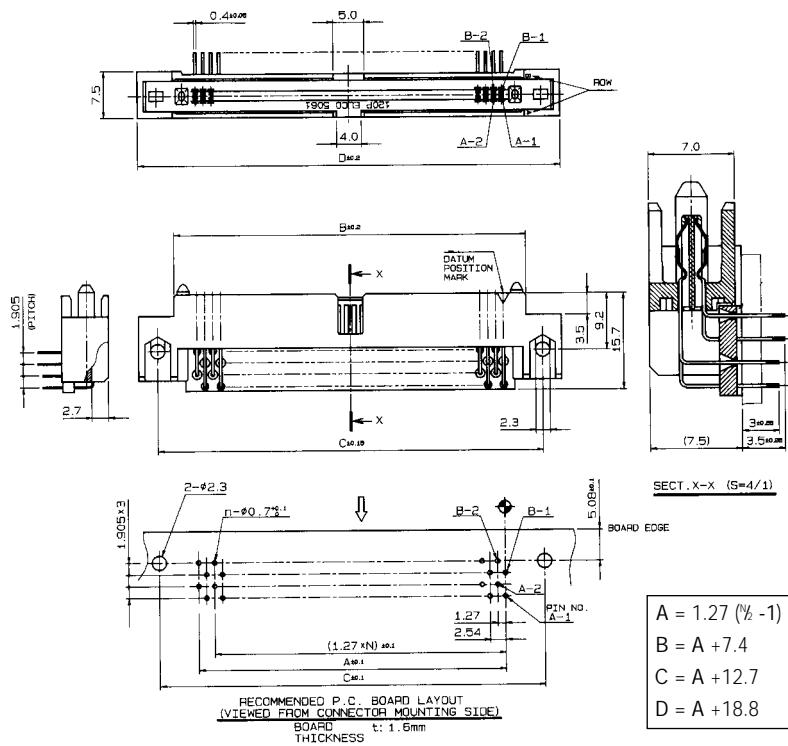
20	5061	XX0	103	8XX
RECEPTACLE	SERIES	NO. OF POSITIONS (20, 30, 40, 50, 60, 80, 100, 120)	VARIATION	FINISH 856 = Au 0.1µm 861 = Au 0.25µm 871 = Au 0.5µm

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #255. Visit our website <http://www.avxcorp.com>

Microleaf Connectors 1.27mm Pitch



Series 5061 Plug Right Angle (With Flange) and (With Guide)

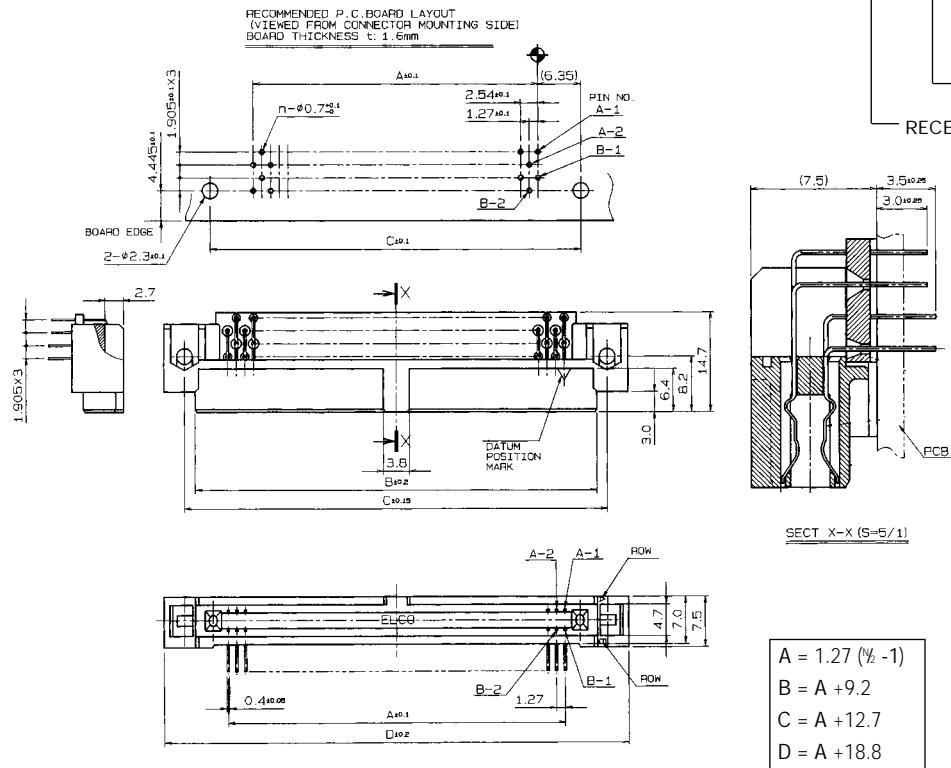


ORDERING CODE

10	5061	XX0	102	8XX
PLUG	SERIES			
			VARIATION	
			NO. OF POSITIONS (20, 30, 40, 50, 60, 80, 100, 120)	

FINISH
856 = Au 0.1µm
861 = Au 0.25µm
871 = Au 0.5µm

Series 5061 Receptacle Right Angle (With Flange) and (With Guide)



ORDERING CODE

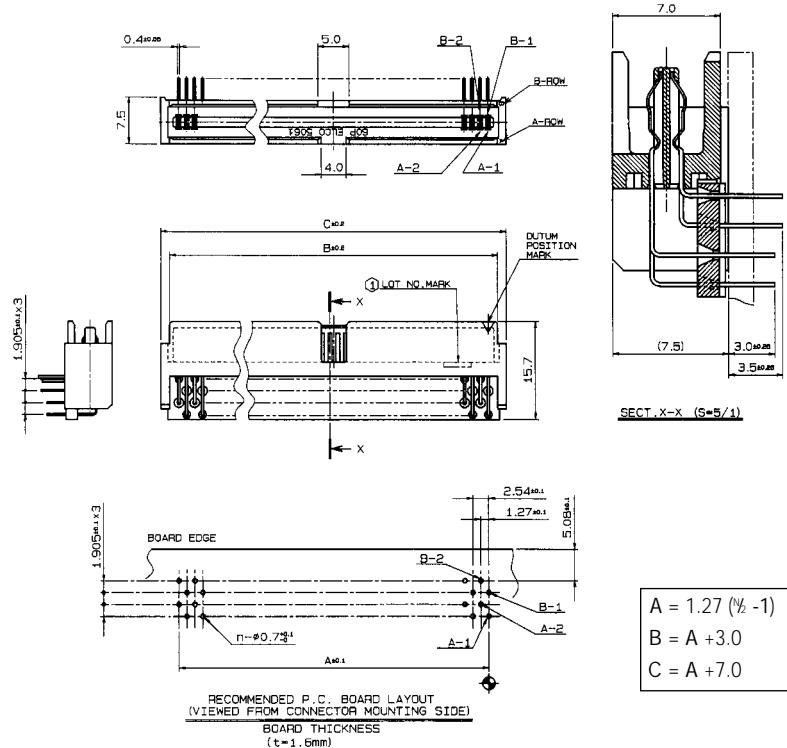
20	5061	XXX	102	8XX
RECEPTACLE	SERIES		VARIATION	
			NO. OF POSITIONS (20, 30, 40, 50, 60, 68, 80, 100, 120)	

FINISH
856 = Au 0.1µm
861 = Au 0.25µm
871 = Au 0.5µm

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #256. Visit our website <http://www.avxcorp.com>

Micromodule Connectors 1.27mm Pitch

Series 5061 Plug Right Angle (Without Flange)



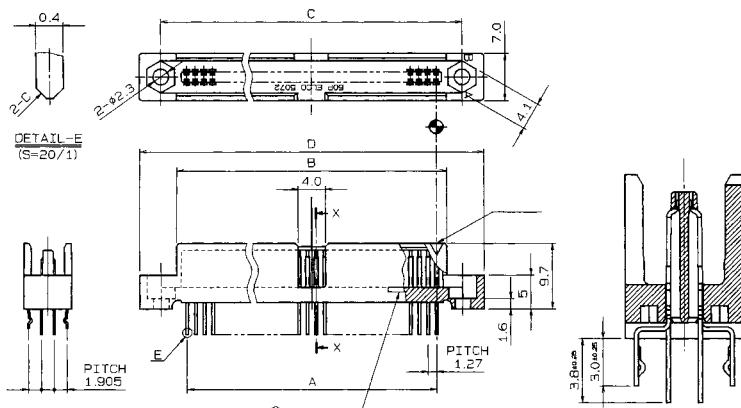
ORDERING CODE

10	5061	XX0	106	8XX
PLUG	SERIES			
		NO. OF POSITIONS (20, 30, 40, 50, 60, 80, 100, 120)		VARIATION
				FINISH 856 = Au 0.1µm 861 = Au 0.25µm 871 = Au 0.5µm

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #257. Visit our website <http://www.avxcorp.com>

Microleaf Connectors 1.27mm Pitch

Series 5072 Plug Straight (With Flange)



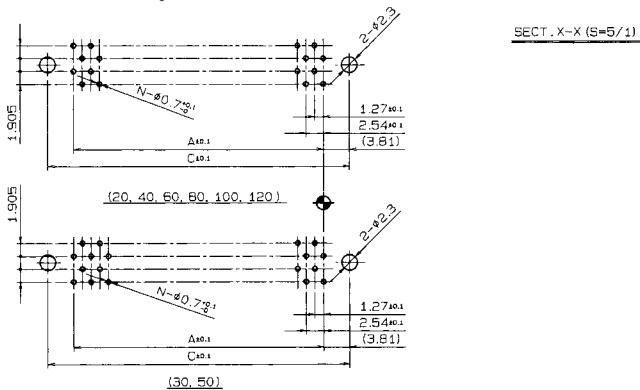
ORDERING CODE

10 5072 XX0 001 8XX

PLUG SERIES NO. OF POSITIONS (20, 30, 40, 50, 60, 80, 100, 120)

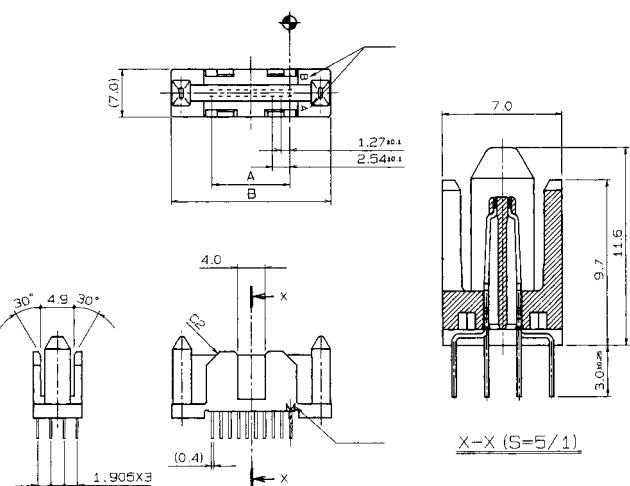
WITH FLANGE WITH KINK

FINISH
856 = Au 0.1µm
861 = Au 0.25µm
871 = Au 0.5µm



A = 1.27 ($\frac{1}{2}$ -1)
B = A +3.0
C = A +4.2
D = A +14.0

Series 5072 Plug Straight Wide Location



ORDERING CODE

10 5072 0X0 002 8XX

RECEPTACLE NO. OF POSITIONS (20, 50)

WIDE LOCATION

FINISH
856 = Au 0.1µm
861 = Au 0.25µm
871 = Au 0.5µm



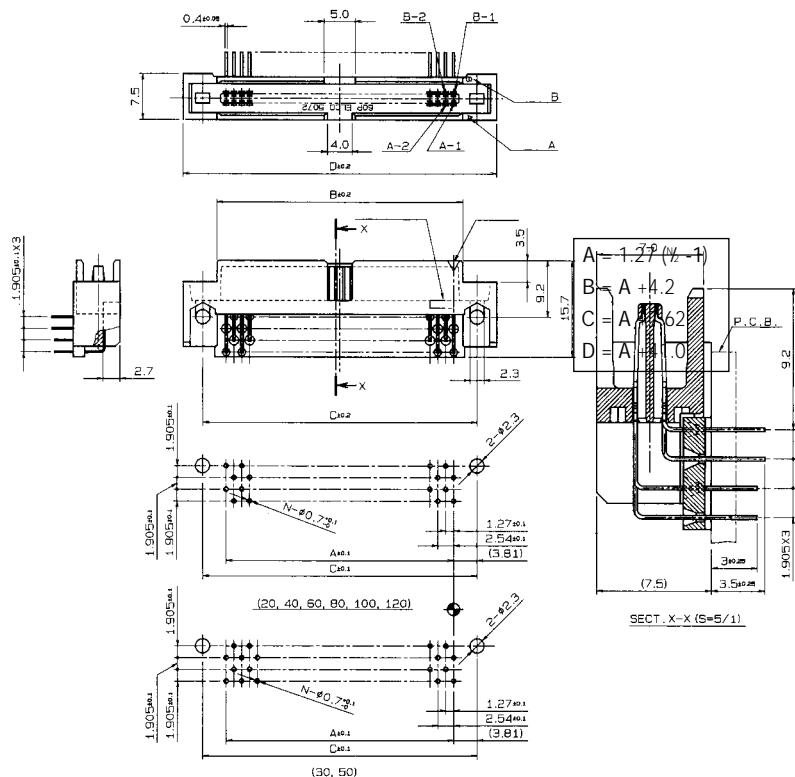
A = 1.27 ($\frac{1}{2}$ -1)
B = A +11.93

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #258. Visit our website <http://www.avxcorp.com>

ELCO

Microleaf Connectors 1.27mm Pitch

Series 5072 Plug Right Angle (With Flange)

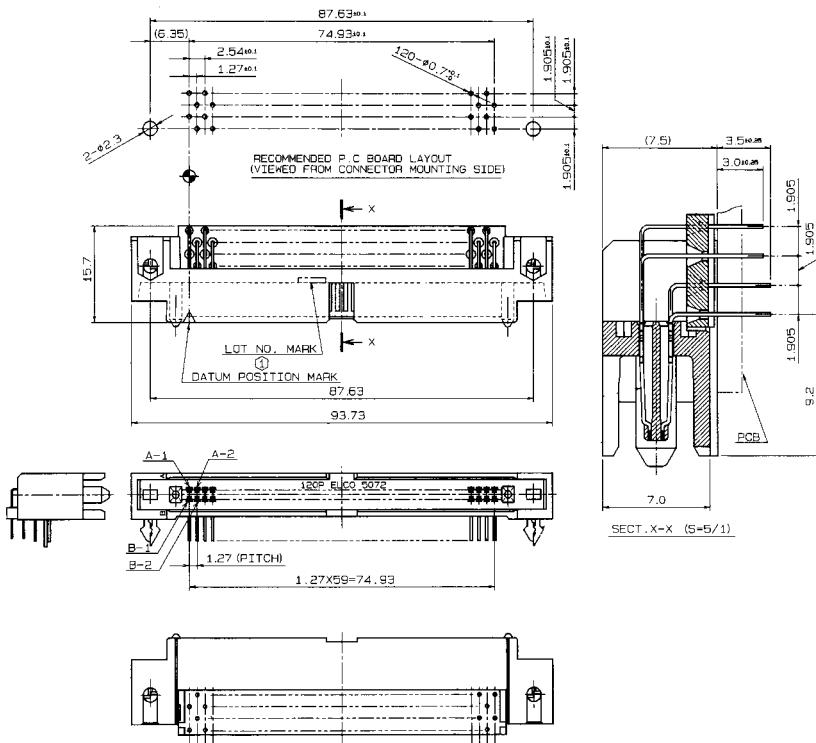


ORDERING CODE

10 5072 XX0 103 8XX
 PLUG SERIES NO. OF POSITIONS (20, 30, 40, 50, 60, 80, 100, 120)
 WITH FLANGE

A = 1.27 ($\frac{1}{8}$ -1)
 B = A + 3.0
 C = A + 7.62
 D = A + 14.0

Series 5072 Plug Right Angle (With Flange, With Guide)



ORDERING CODE

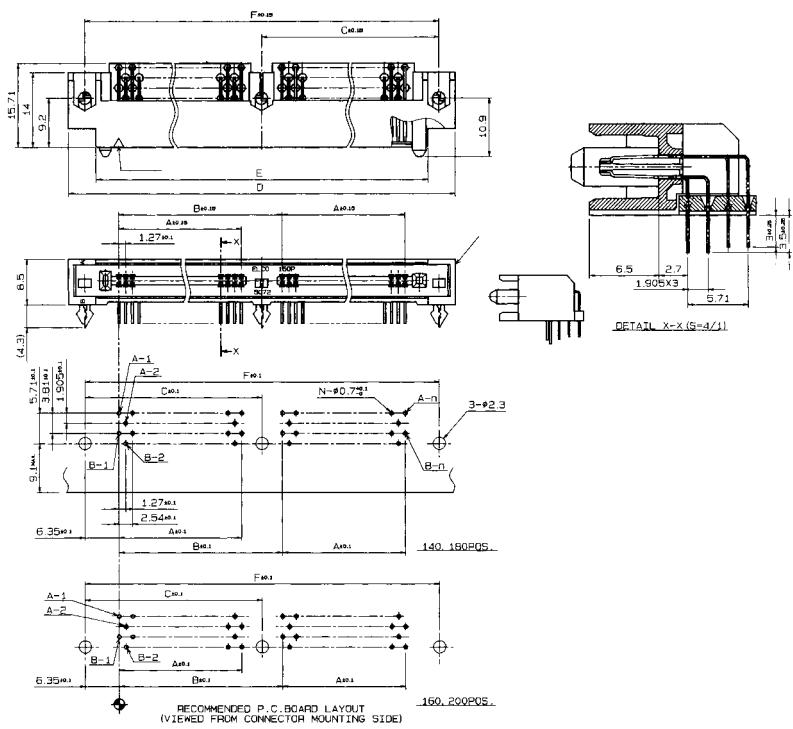
10 5072 120 112 8XX
 PLUG NO. OF PINS (120)
 WITH FLANGE AND GUIDE (Short Type)

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #259. Visit our website <http://www.avxcorp.com>

Microleaf Connectors 1.27mm Pitch



Series 5072 Plug Right Angle (With Flange, With Guide) (High Pin Count)

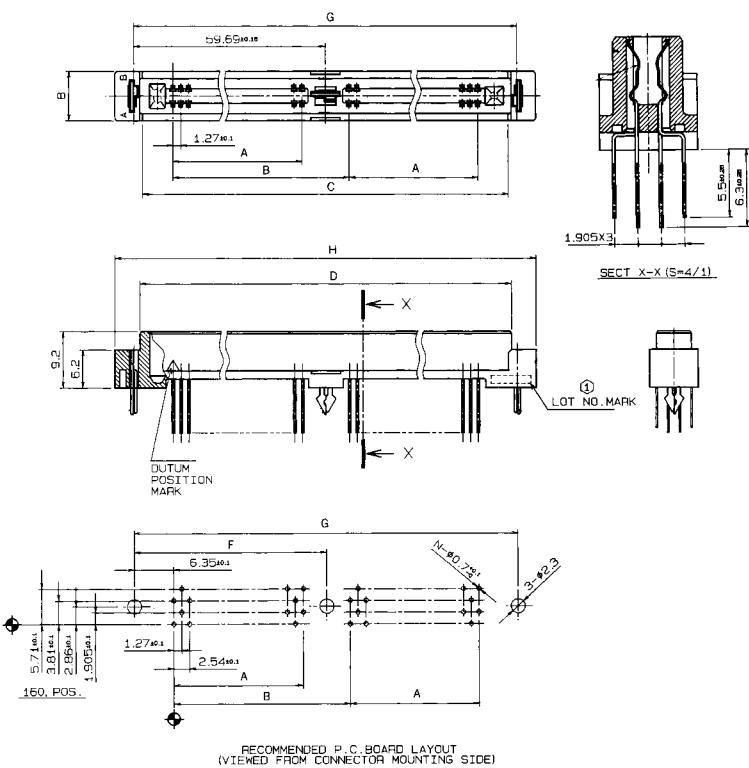


ORDERING CODE

10	5072	XX0	105	8XX
PLUG				WITH FLANGE, WITH GUIDE RETENTION CLIP
SERIES				NO. OF POSITIONS (140, 160, 180, 200)

$A = 1.27 (\frac{1}{4} - 1)$	$D = A + B + 18.8$
$B = A + 7.62$	$E = A + B + 8.6$
$C = A + 10.16$	$F = A + B + 12.7$

Series 5061 Receptacle Straight (With Flange, With Guide) (High Pin Count)



ORDERING CODE

20	5061	XX0	067	8XX
RECEPTACLE				WITH FLANGE, WITH GUIDE RETENTION CLIP
SERIES				NO. OF POSITIONS (140, 160, 180, 200)

$A = 1.27 (\frac{1}{4} - 1)$	$F = A + 10.16$
$B = A + 7.62$	$G = A + B + 12.7$
$C = A + B + 9.8$	$H = A + B + 18.8$
$D = A + B + 10.8$	

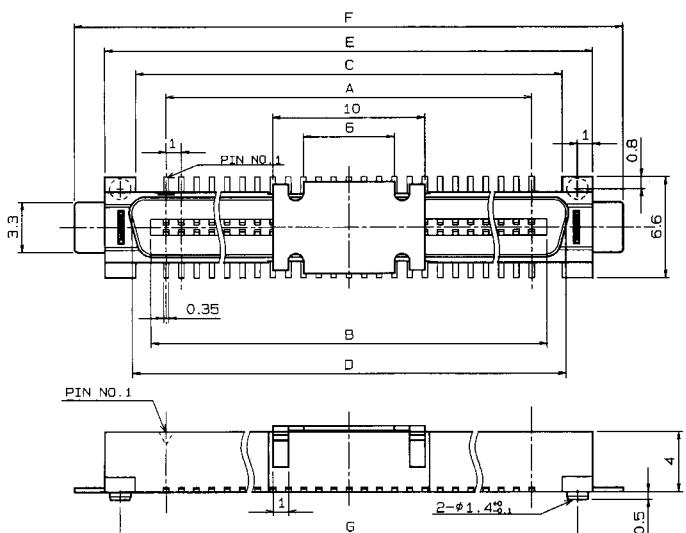
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #260. Visit our website <http://www.avxcorp.com>

ELCO

Microleaf SMT Connectors 1.0mm Pitch



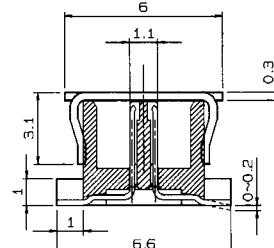
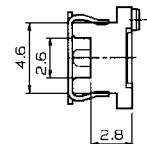
Series 5078 Plug Straight With Vacuum Pick Up Clip (30~60 Positions)



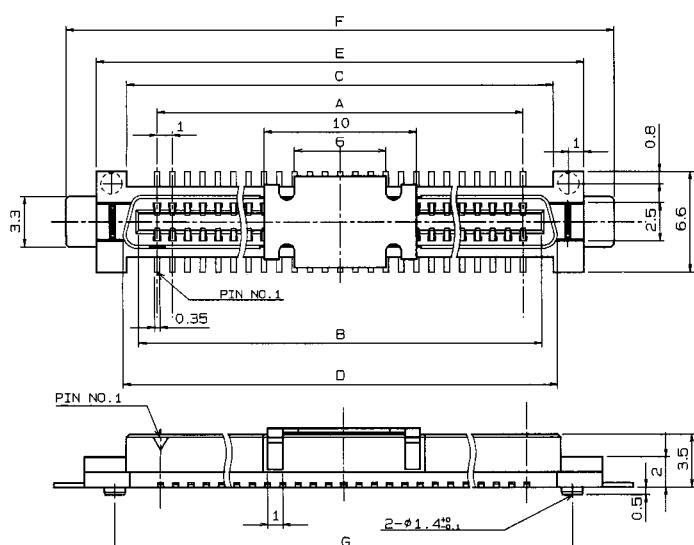
ORDERING CODE

14 5078 0X0 100 8XX

- FINISH**
- 861 = Ni over Au Plating
- 833 = Pd/Ni over Au Plating
- VARIATION**
- NUMBER OF POSITIONS** (30, 40, 50, 60)
- SERIES**
- TAPE AND REEL
- 14 = Plug



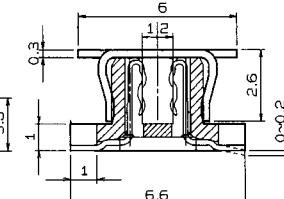
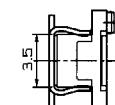
Series 5078 Receptacle Straight With Vacuum Pick Up Clip (30~60 Positions)



ORDERING CODE

24 5078 0X0 100 8XX

- FINISH**
- 861 = Ni over Au Plating
- 833 = Pd/Ni over Au Plating
- VARIATION**
- NUMBER OF POSITIONS** (30, 40, 50, 60)
- SERIES**
- TAPE AND REEL
- 24 = Receptacle



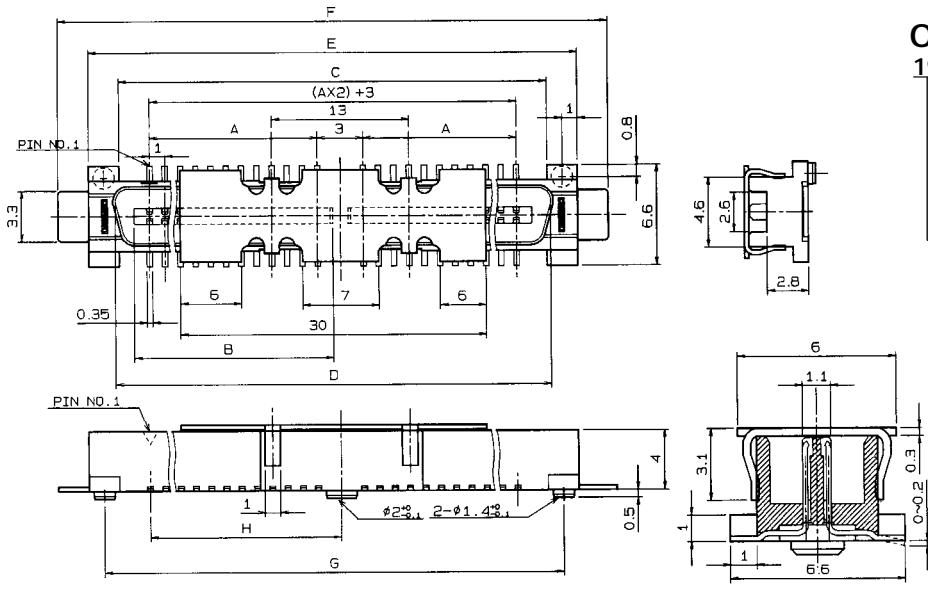
A = 1 (1/2 - 1)	E = 1 (1/2 - 1)+8
B = 1 (1/2 - 1)+2.5	F = 1 (1/2 - 1)+12
C = 1 (1/2 - 1)+4	G = 1 (1/2 - 1)+6
D = 1 (1/2 - 1)+4.5	

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #261. Visit our website <http://www.avxcorp.com>

Microleaf SMT Connectors 1.0mm Pitch



Series 5078 Plug Straight With Vacuum Pick Up Clip (80~120 Positions)



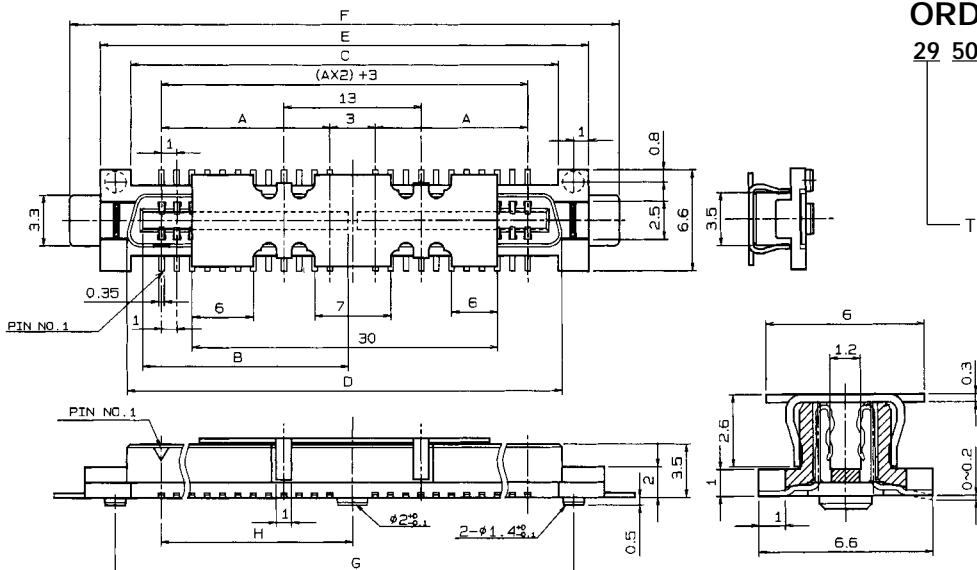
ORDERING CODE

19 5078 XX0 000 8XX

- FINISH
 - 861 = Au 0.25µm
 - 833 = Au Flash
- VARIATION
- NUMBER OF POSITIONS
 - (80, 100, 120)
- SERIES
- TRAY
 - 19 = Plug

$A = 1 (\frac{1}{4} - 1)$	$E = 1 (\frac{1}{2} - 1) + 10$
$B = 1 (\frac{1}{4} - 1) + 2$	$F = 1 (\frac{1}{2} - 1) + 14$
$C = 1 (\frac{1}{2} - 1) + 6$	$G = 1 (\frac{1}{2} - 1) + 8$
$D = 1 (\frac{1}{2} - 1) + 6.7$	

Series 5078 Receptacle Straight With Vacuum Pick Up Clip (80~120 Positions)



ORDERING CODE

29 5078 000 000 8XX

- FINISH
 - 861 = Au 0.25µm
 - 833 = Au Flash
- VARIATION
- NUMBER OF POSITIONS
 - (80, 100, 120)
- SERIES
- TRAY
 - 29 = Receptacle

$A = 1 (\frac{1}{4} - 1)$	$E = 1 (\frac{1}{2} - 1) + 10$
$B = 1 (\frac{1}{4} - 1) + 2.45$	$F = 1 (\frac{1}{2} - 1) + 14$
$C = 1 (\frac{1}{2} - 1) + 6$	$G = 1 (\frac{1}{2} - 1) + 8$
$D = 1 (\frac{1}{2} - 1) + 6.5$	

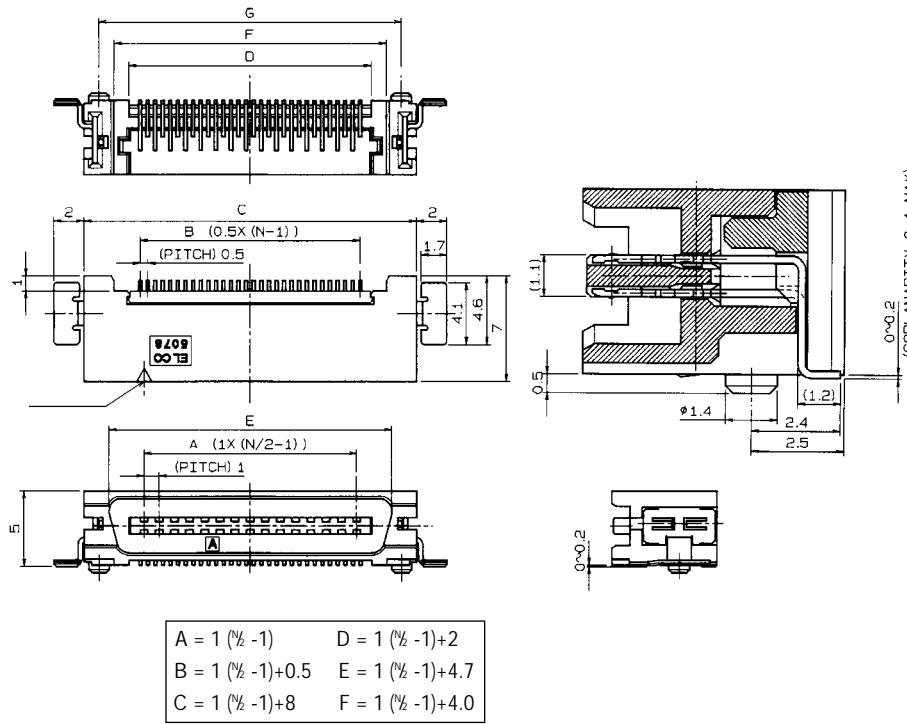
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #262. Visit our website <http://www.avxcorp.com>

ELCO

Microleaf SMT Connectors 1.00mm Pitch



Series 5078 Standard SMT Plug Right Angle (30~60 Positions)

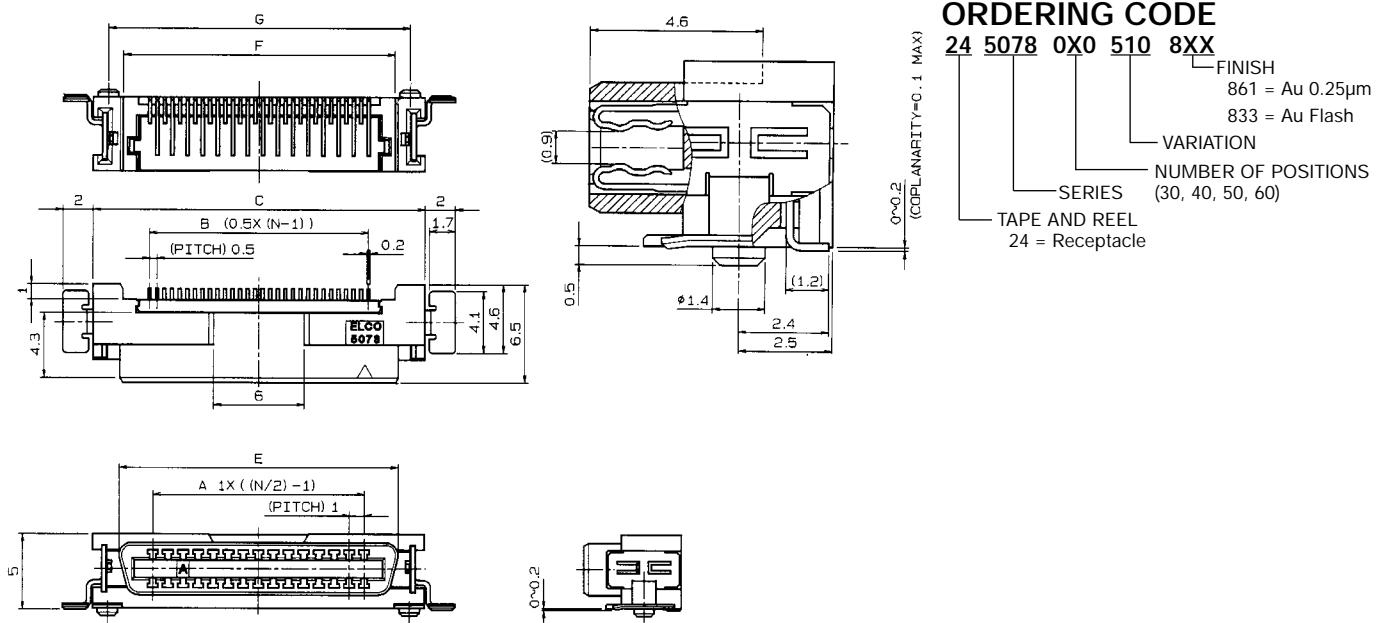


ORDERING CODE

14 5078 0X0 510 8XX

- FINISH
 - 861 = Au 0.25µm
 - 833 = Au Flash
- VARIATION
- NUMBER OF POSITIONS
 - (30, 40, 50, 60)
- TAPE AND REEL
 - 14 = Plug

Series 5078 Standard SMT Receptacle Right Angle (30~60 Positions)



ORDERING CODE

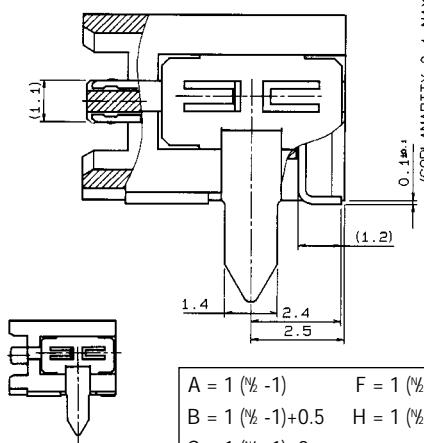
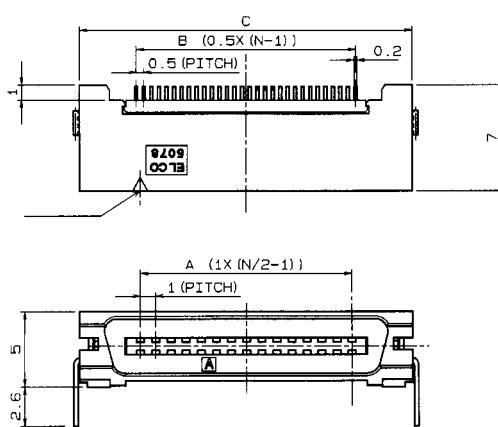
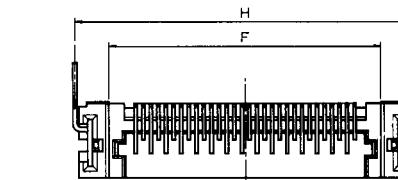
24 5078 0X0 510 8XX

- FINISH
 - 861 = Au 0.25µm
 - 833 = Au Flash
- VARIATION
- NUMBER OF POSITIONS
 - (30, 40, 50, 60)
- TAPE AND REEL
 - 24 = Receptacle

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #263. Visit our website <http://www.avxcorp.com>

Microleaf SMT Connectors 1.00mm Pitch

Series 5078 Lead Reflow Plug Right Angle (30~60 Positions)



ORDERING CODE

14	5078	0X0	511	8XX
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TAPE AND REEL
14 = Plug

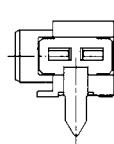
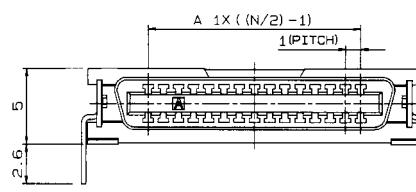
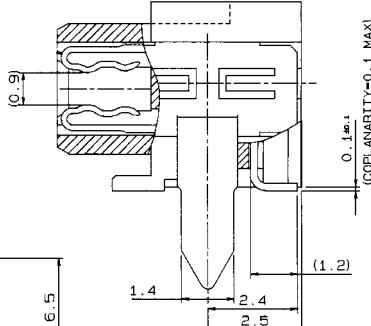
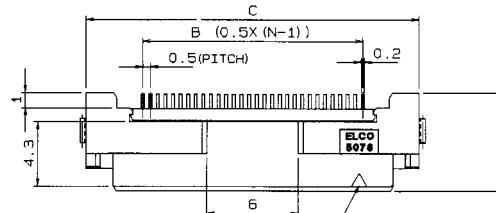
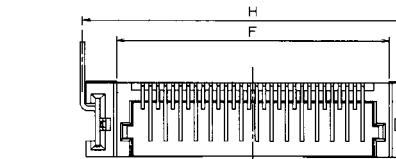
FINISH
861 = Au 0.25 μ m
833 = Au Flash

VARIATION

NUMBER OF POSITIONS
(30, 40, 50, 60)

$$\begin{aligned}
 A &= 1 (\frac{1}{2} - 1) & F &= 1 (\frac{1}{2} - 1) + 4.0 \\
 B &= 1 (\frac{1}{2} - 1) + 0.5 & H &= 1 (\frac{1}{2} - 1) + 8.5 \\
 C &= 1 (\frac{1}{2} - 1) + 8
 \end{aligned}$$

Series 5078 Lead Reflow Receptacle Right Angle (30~60 Positions)



ORDERING CODE

24	5078	0X0	511	8XX
----	------	-----	-----	-----

TAPE AND REEL
24 = Receptacle

FINISH
861 = Au 0.25 μ m
833 = Au Flash

VARIATION

NUMBER OF POSITIONS
(30, 40, 50, 60)

$$\begin{aligned}
 A &= 1 (\frac{1}{2} - 1) & C &= 1 (\frac{1}{2} - 1) + 8 \\
 B &= 1 (\frac{1}{2} - 1) + 0.5 & H &= 1 (\frac{1}{2} - 1) + 8.5
 \end{aligned}$$

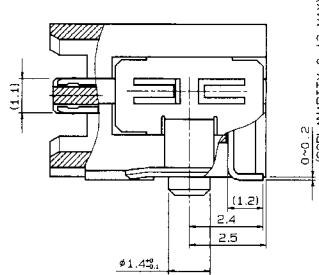
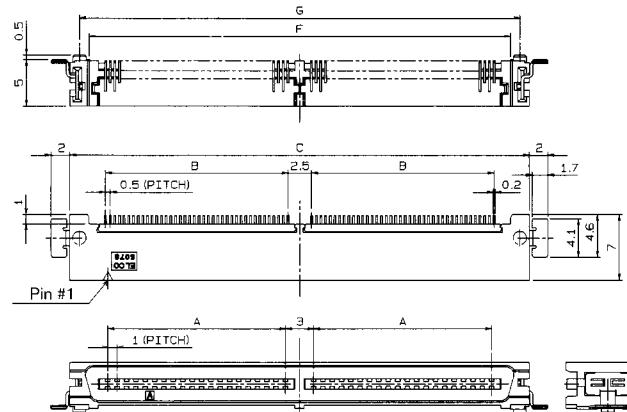
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #264. Visit our website <http://www.avxcorp.com>

ELCO

Microleaf SMT Connectors 1.00mm Pitch



Series 5078 Standard SMT Plug Right Angle (80~120 Positions)



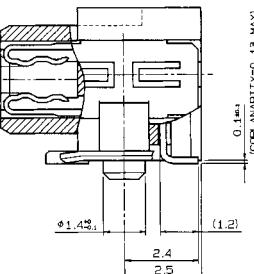
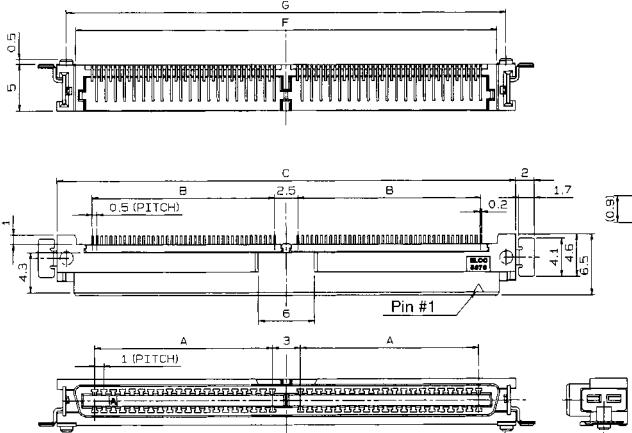
ORDERING CODE

19 5078 XX0 520 8XX

- FINISH
 - 861 = Au 0.25 μ m
 - 833 = Au Flash
- VARIATION
- NUMBER OF POSITIONS (80, 100, 120)
- SERIES
- TRAY
 - 19 = Plug

$A = 1 (\frac{1}{4} - 1)$	$F = 1 (\frac{1}{2} - 1) + 6$
$B = 1 (\frac{1}{4} - 1) + 0.5$	$G = 1 (\frac{1}{2} - 1) + 8$
$C = 1 (\frac{1}{2} - 1) + 10$	

Series 5078 Standard SMT Receptacle Right Angle (80~120 Positions)



ORDERING CODE

29 5078 XX0 520 8XX

- FINISH
 - 861 = Au 0.25 μ m
 - 833 = Au Flash
- VARIATION
- NUMBER OF POSITIONS (80, 100, 120)
- SERIES
- TRAY
 - 29 = Receptacle

$A = 1 (\frac{1}{4} - 1)$	$F = 1 (\frac{1}{2} - 1) + 6$
$B = 1 (\frac{1}{4} - 1) + 0.5$	$G = 1 (\frac{1}{2} - 1) + 8$
$C = 1 (\frac{1}{2} - 1) + 10$	

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #265. Visit our website <http://www.avxcorp.com>

Microleaf SMT Connectors 1.00mm Pitch

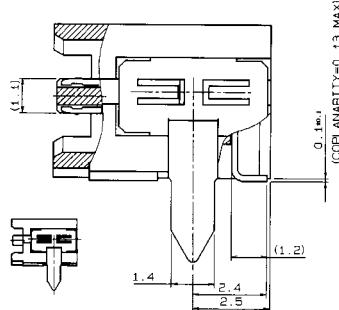
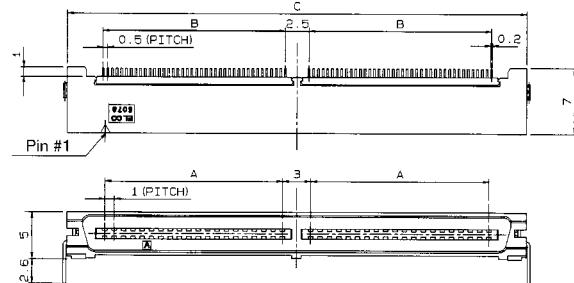
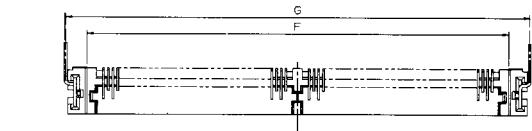
Series 5078 Lead Reflow Plug Right Angle (80~120 Positions)



ORDERING CODE

19 5078 XX0 521 8XX

- FINISH
 - 861 = Au 0.25 μ m
 - 833 = Au Flash
- VARIATION
- NUMBER OF POSITIONS
 - (80, 100, 120)
- SERIES
- TRAY
 - 19 = Plug



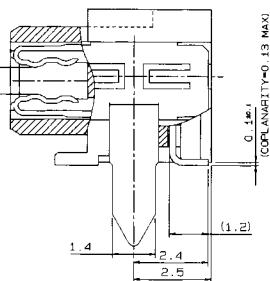
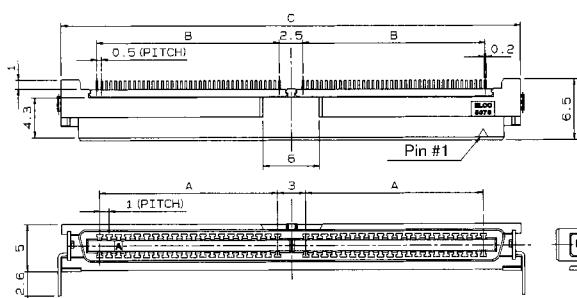
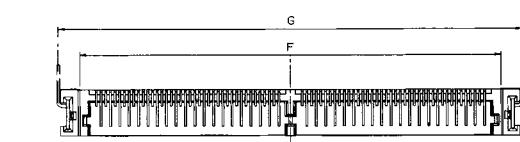
A = 1 ($\frac{1}{4}$ -1)	F = 1 ($\frac{1}{2}$ -1)+6
B = 1 ($\frac{1}{4}$ -1)+0.5	G = 1 ($\frac{1}{2}$ -1)+10.5
C = 1 ($\frac{1}{2}$ -1)+10	

Series 5078 Lead Reflow Receptacle Right Angle (80~120 Positions)

ORDERING CODE

29 5078 XX0 521 8XX

- FINISH
 - 861 = Au 0.25 μ m
 - 833 = Au Flash
- VARIATION
- NUMBER OF POSITIONS
 - (80, 100, 120)
- SERIES
- TRAY
 - 29 = Receptacle



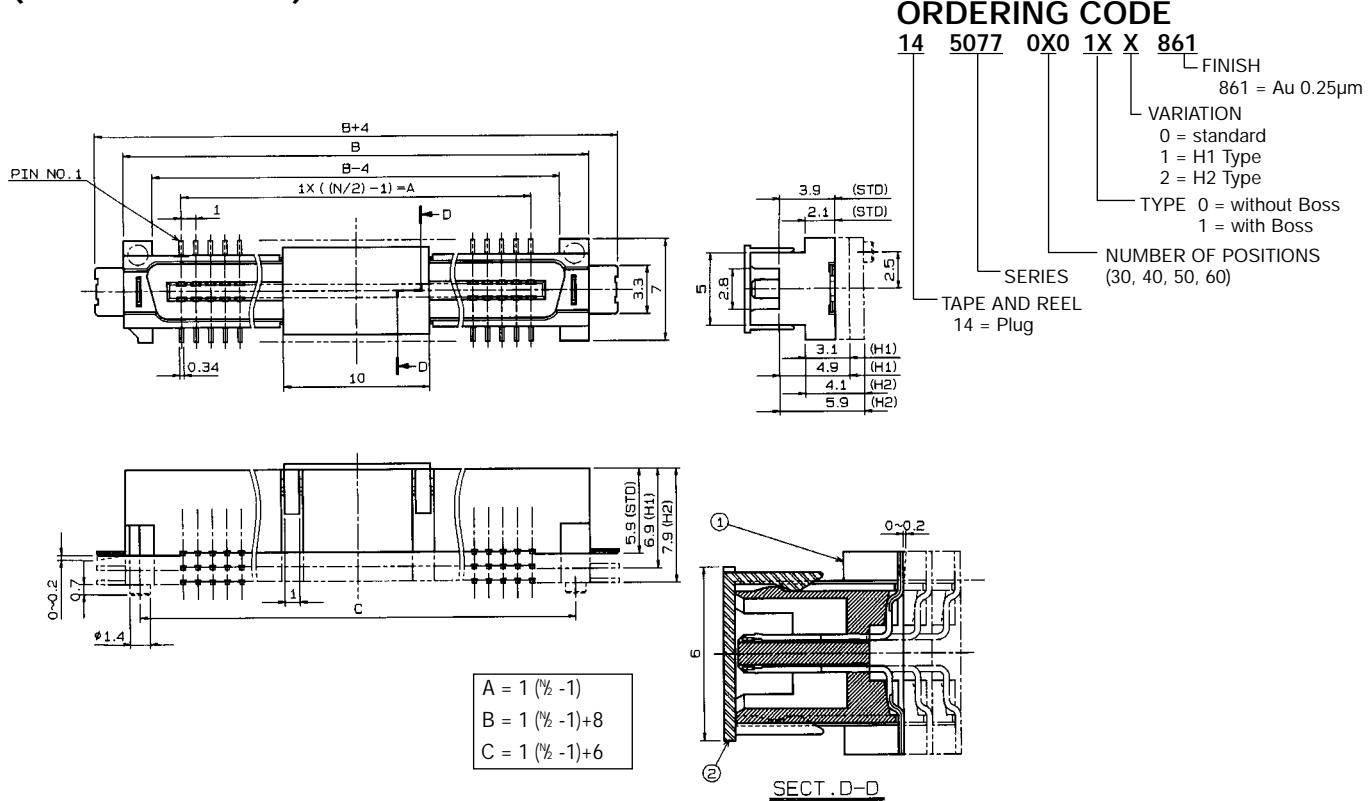
A = 1 ($\frac{1}{4}$ -1)	F = 1 ($\frac{1}{2}$ -1)+6
B = 1 ($\frac{1}{4}$ -1)+0.5	G = 1 ($\frac{1}{2}$ -1)+10.5
C = 1 ($\frac{1}{2}$ -1)+10	

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #266. Visit our website <http://www.avxcorp.com>

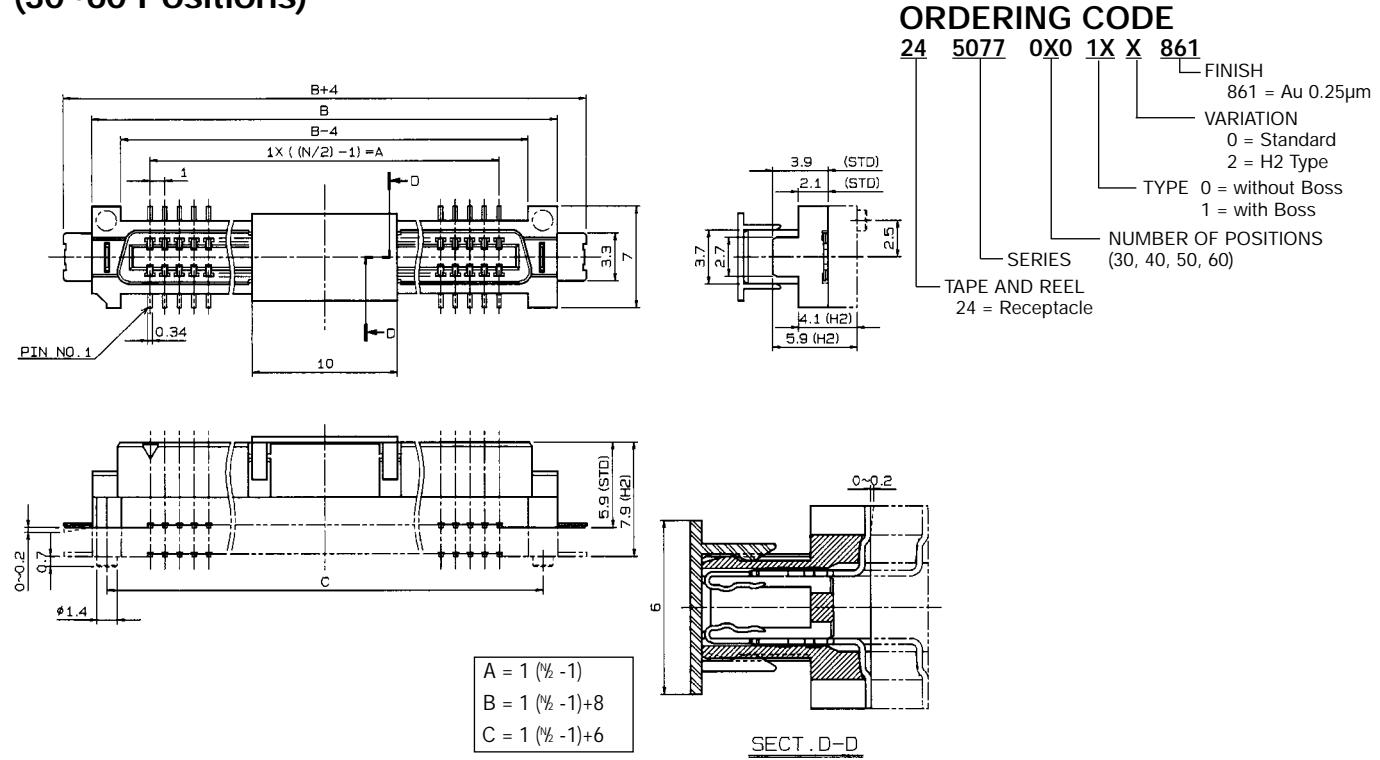
Microleaf SMT Connectors 1.0mm Pitch



Series 5077 Plug Straight With Vacuum Pick Up Clip (30~60 Positions)



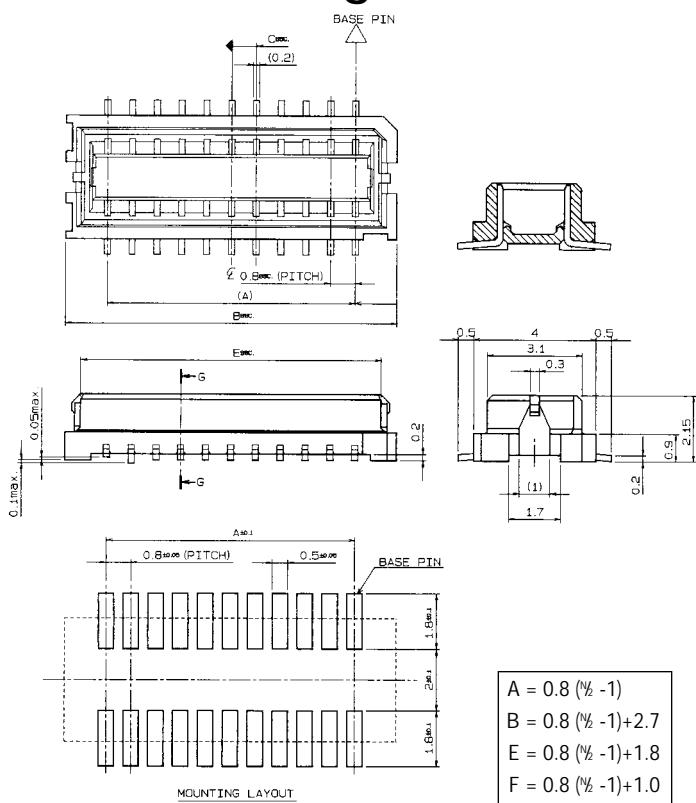
Series 5077 Receptacle Straight With Vacuum Pick Up Clip (30~60 Positions)



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #267. Visit our website <http://www.avxcorp.com>

Super Micro Connectors 0.8mm Pitch

Series 8375 Plug



ORDERING CODE

14 8375 0XX X 30 8X8

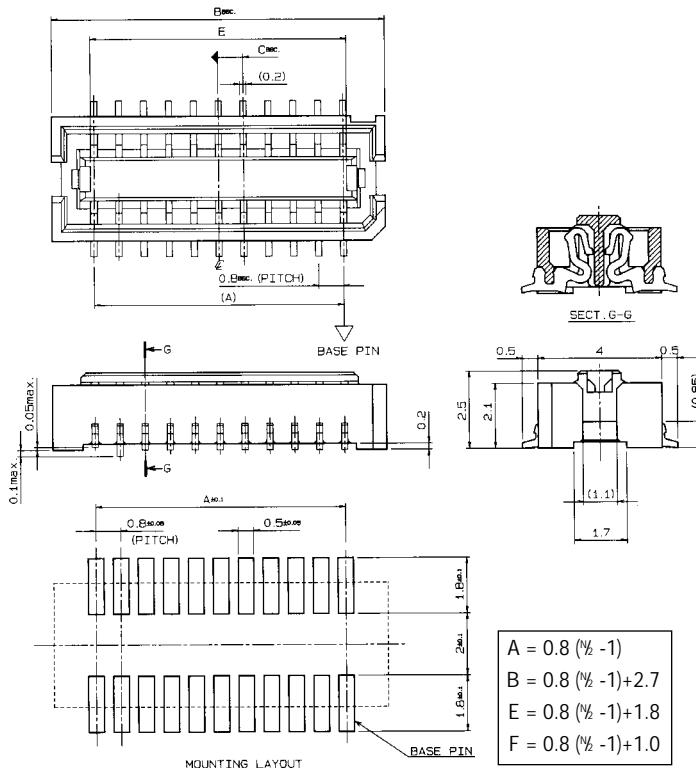
— FINISH
808 = Tin Plating
858 = Gold Plating

— TYPE 2 = without Boss
3 = with Boss

— NUMBER OF POSITIONS
(16, 22, 28)

SERIES
TAPE AND REEL
14 = Plug

Series 8375 Receptacle



ORDERING CODE

24 8375 0XX X 00 8X8

— FINISH
808 = Tin Plating
858 = Gold Plating

— TYPE 2 = without Boss
3 = with Boss

— NUMBER OF POSITIONS
(16, 22, 28)

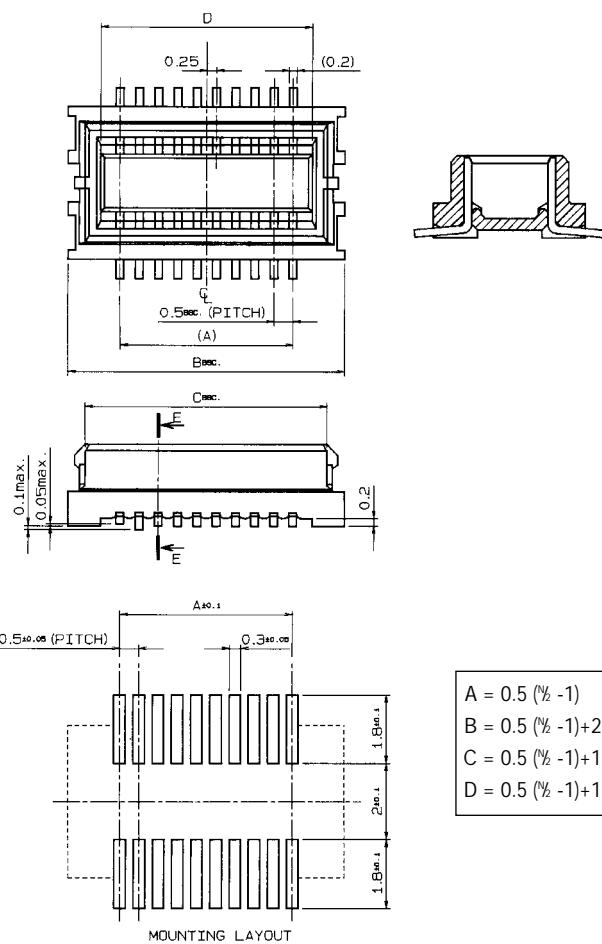
SERIES
TAPE AND REEL
24 = Receptacle

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #268. Visit our website <http://www.avxcorp.com>

ELCO

Super Micro Connectors 0.5mm Pitch

Series 5087 Plug



ORDERING CODE

14 5087 0XX X XX 8XX

FINISH
861 = Ni Under Coated
1.25µm min.
Gold-Mating Area
Au 0.38µm min.

829 = Ni Under Coated
1.25µm min.
Gold-Mating Area
Au 0.1µm min.

VARIATION
30 : H = 3.0mm
35 : H = 3.5mm
40 : H = 4.0mm

TYPE 0 = without Boss with
Retention Clip

2 = without Boss,

Retention Clip

9 = without Boss,
Retention Clip,
with Adhesive Tape

SERIES NUMBER OF POSITIONS
(20, 30, 32, 36, 40, 50, 60)

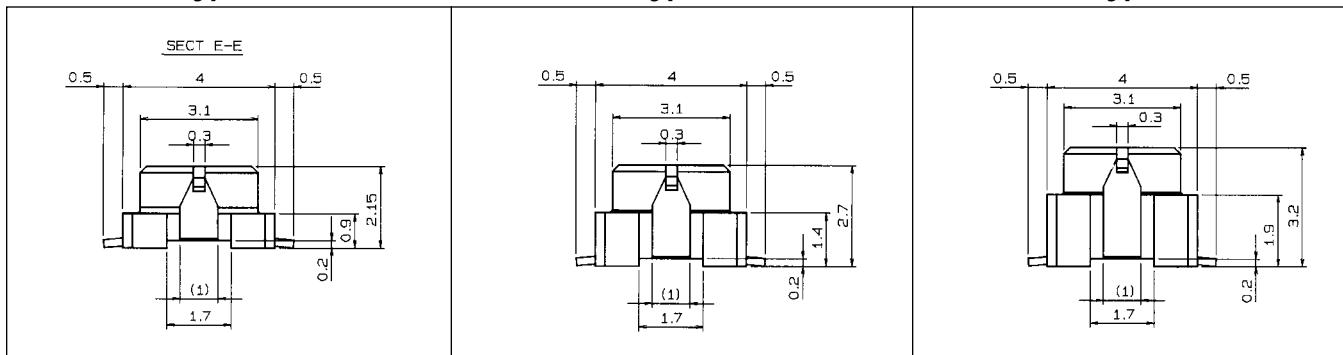
TAPE AND REEL

14 = Plug

H = 3.0mm Type

H = 3.5mm Type

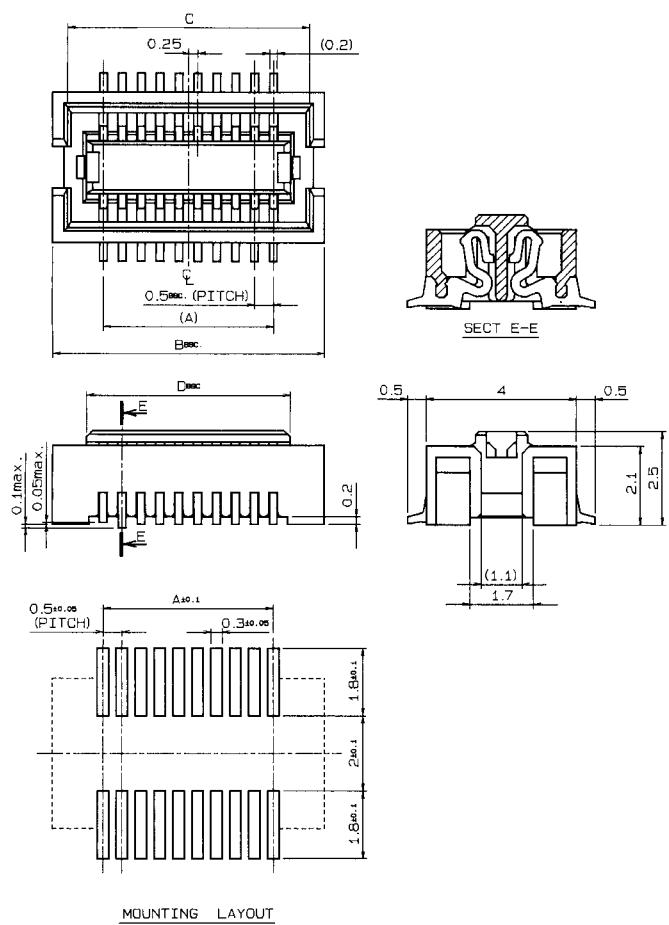
H = 4.0mm Type



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #269. Visit our website <http://www.avxcorp.com>

Super Micro Connectors 0.5mm Pitch

Series 5087 Receptacle H = 3.0 ~ 4.0mm Type



ORDERING CODE

24 5087 0XX X 00 8XX

FINISH
861 = Ni Under Coated
1.25µm min.
Gold-Mating Area
Au 0.38µm min.
829 = Ni Under Coated
1.25µm min.
Gold-Mating Area
Au 0.1µm min.

VARIATION
H = 3.0 ~ 4.0mm

TYPE 0 = without Boss with
Retention Clip
2 = without Boss,
Retention Clip
9 = without Boss,
Retention Clip,
with Adhesive Tape

SERIES
NUMBER OF POSITIONS
(20, 30, 32, 36, 40, 50, 60)

TAPE AND REEL
24 = Receptacle

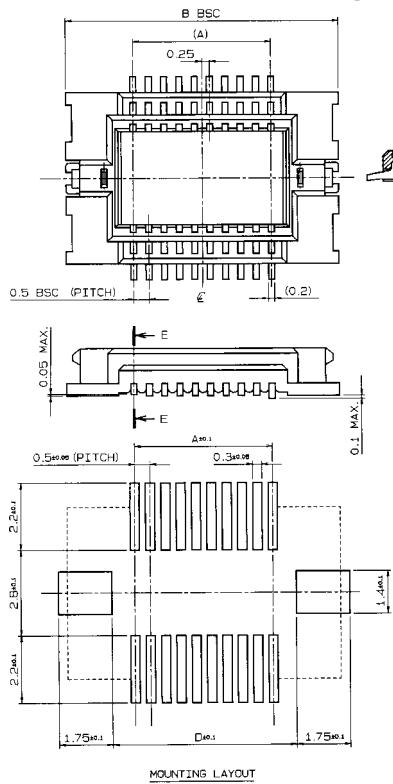
A = 0.5 (% -1)
B = A +2.7
C = A +1.9
D = A +0.9

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #270. Visit our website <http://www.avxcorp.com>

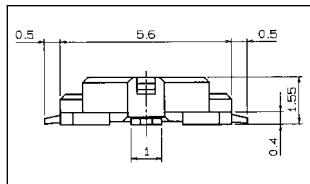
ELCO

Super Micro Connectors 0.5mm Pitch

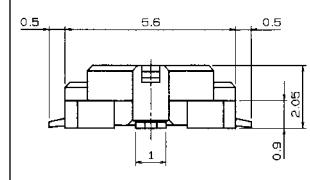
Series 5087 Plug



H = 2.0mm Type



H = 2.5mm Type



A = 0.5 ($\frac{1}{2}$ -1)
B = 0.5 ($\frac{1}{2}$ -1)+4.4
D = 0.5 ($\frac{1}{2}$ -1)+1.5

ORDERING CODE

14 5087 0XX X XX 8XX

FINISH
861 = Ni Under Coated
1.25 μ m min.
Gold-Mating Area
Au 0.38 μ m min.

829 = Ni Under Coated
1.25 μ m min.
Gold-Mating Area
Au 0.1 μ m min.

VARIATION

20 : H = 2.0mm
25 : H = 2.5mm

TYPE 0 = without Boss with
Retention Clip

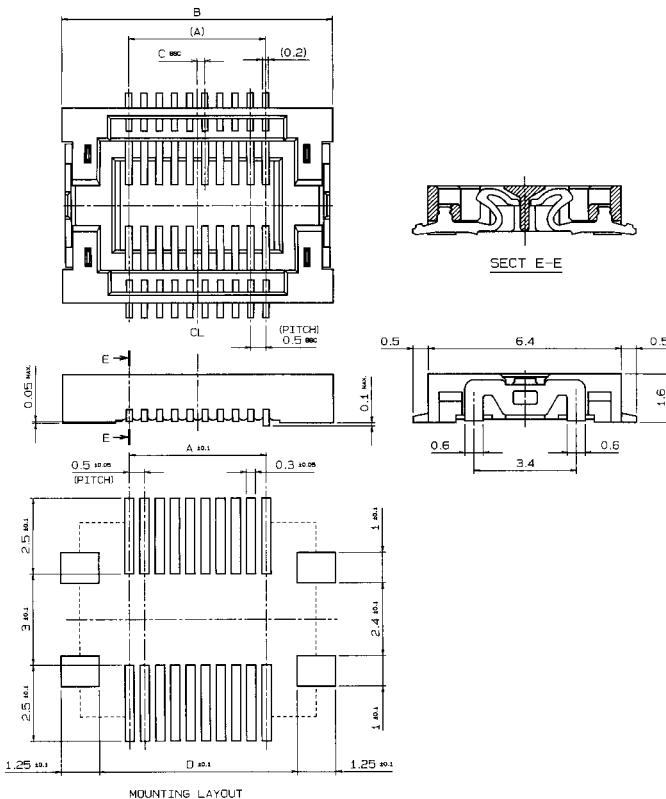
2 = without Boss,
Retention Clip

9 = without Boss,
Retention Clip,
with Adhesive Tape

NUMBER OF POSITIONS
(10*, 20, 30, 40, 50, 60) *2.0mm H only

SERIES
TAPE AND REEL
14 = Plug

Series 5087 Receptacle H = 2.0 ~ 2.5mm Type



ORDERING CODE

24 5087 0XX X 01 8XX

FINISH
861 = Ni Under Coated
1.25 μ m min.
Gold-Mating Area
Au 0.38 μ m min.

829 = Ni Under Coated
1.25 μ m min.
Gold-Mating Area
Au 0.1 μ m min.

VARIATION
H = 2.0 ~ 2.5mm

TYPE 0 = without Boss with
Retention Clip

2 = without Boss,
Retention Clip

9 = without Boss,
Retention Clip,
with Adhesive Tape

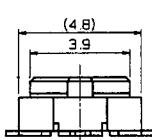
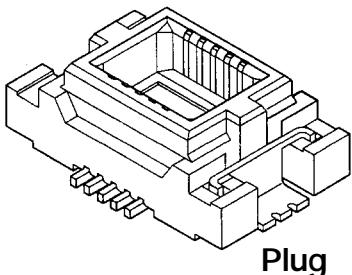
NUMBER OF POSITIONS
(10, 20, 30, 40, 50, 60)

SERIES
TAPE AND REEL
24 = Receptacle

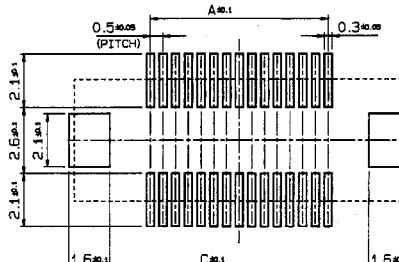
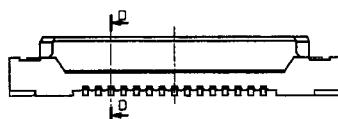
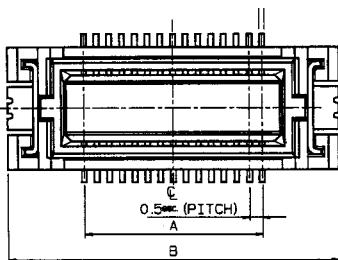
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #271. Visit our website <http://www.avxcorp.com>

Board-to-Board Super Microleaf

Series 5046 Plug – 0.5mm Pitch



A = 0.5 ($\frac{1}{2}$ -1)
B = A + 6.0
C = A + 3.2



ORDERING CODE

Stacking Height	Part Number		
4.5mm	Female	24 5046 XXX X00 829	
	Male	14 5046 XXX X45 829	
4.0mm	Female	24 5046 XXX X00 829	
	Male	14 5046 XXX X40 829	
3.5mm	Female	24 5046 XXX X00 829	
	Male	14 5046 XXX X35 829	
3.0mm	Female	24 5046 XXX X00 829	
	Male	14 5046 XXX X30 829	

NO. OF POSITIONS _____

VARIATION CODE _____

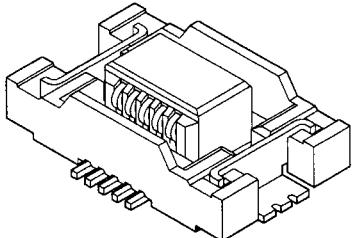
0 = W/O Metal Tab

1 = With Metal Tab

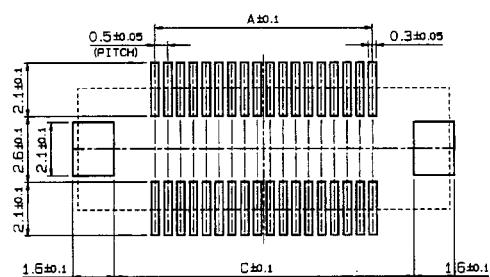
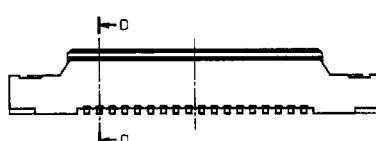
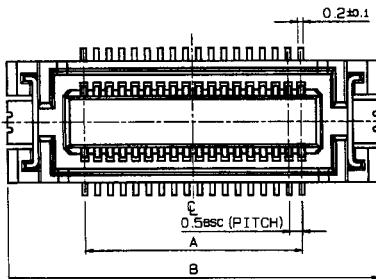
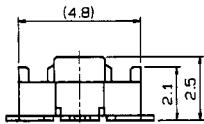
5 = W/O Metal Tab / With Kapton Tape

6 = With Metal Tab / With Kapton Tape

Series 5046 Receptacle – 0.5mm Pitch



Receptacle

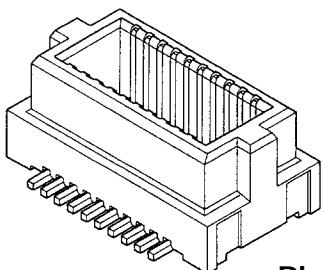


RECOMMENDED P.C. BOARD LAYOUT

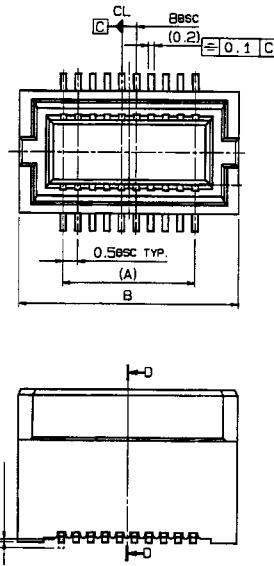
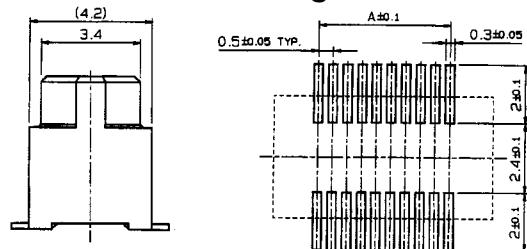
No. of Positions	A	B	C
20	4.5	10.5	7.7
30	7.0	13.0	10.2
40	9.5	15.5	12.7
50	12.0	18.0	15.2
60	14.5	20.5	17.7
70	17.0	23.0	20.2
80	19.5	25.5	22.7
90	22.0	28.0	25.2
100	24.5	30.5	27.7
110	27.0	33.0	30.2
120	29.5	35.5	32.7

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #272. Visit our website <http://www.avxcorp.com>

Board-to-Board Super Microleaf Series 5047 Plug – 0.5mm Pitch



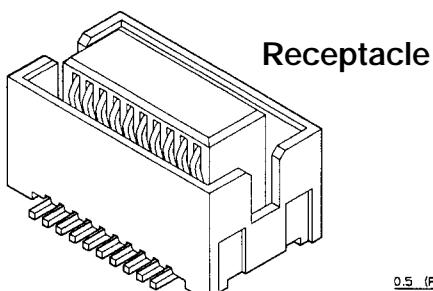
Plug



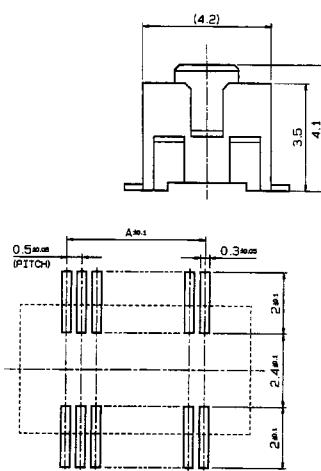
No. of Positions	A	B	C
20	4.5	7.5	0.25
30	7.0	10.0	0.5
40	9.5	12.5	0.25
50	12.0	15.0	0.5
60	14.5	17.5	0.25
70	17.0	20.0	0.5
80	19.5	22.5	0.25
90	22.0	25.0	0.5
100	24.5	27.5	0.25
110	27.0	30.0	0.5
120	29.5	32.5	0.25

A = 0.5 ($\frac{1}{2}$ -1)
B = A +3.0

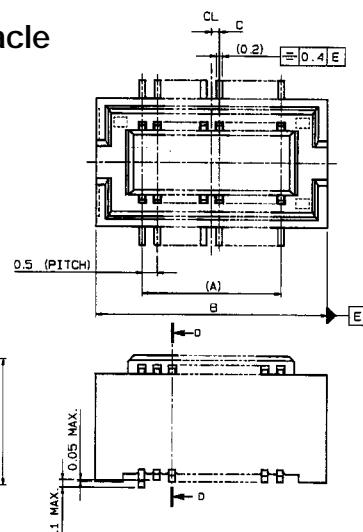
Series 5047 Receptacle – 0.5mm Pitch



Receptacle



RECOMMENDED P.C.B. BOARD LAYOUT



ORDERING CODE

Stacking Height	Part Number	
5.0mm	Female	24 5047 XXX 400 XXX
	Male	14 5047 XXX 450 XXX
7.0mm	Female	24 5047 XXX 400 XXX
	Male	14 5047 XXX 470 XXX

NO. OF POSITIONS _____
VARIATION CODE _____
4 = W/O Kapton Tape
2 = With Kapton Tape
FINISH CODE _____

Contact Area	
856	Au 0.1 μ m/MIN
861	Au 0.2 μ m/MIN

No. of Positions	A	B	C
20	4.5	7.5	0.25
30	7.0	10.0	0.5
40	9.5	12.5	0.25
50	12.0	15.0	0.5
60	14.5	17.5	0.25
70	17.0	20.0	0.5
80	19.5	22.5	0.25
90	22.0	25.0	0.5
100	24.5	27.5	0.25
110	27.0	30.0	0.5
120	29.5	32.5	0.25

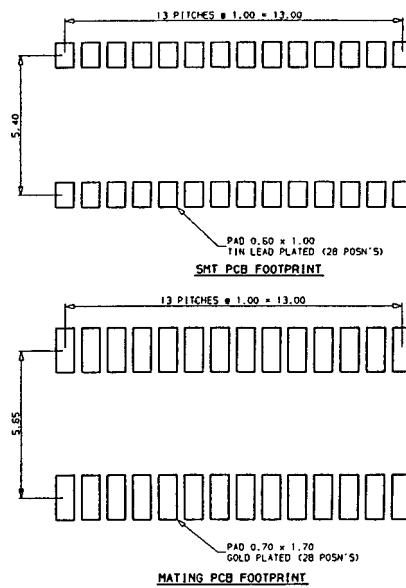
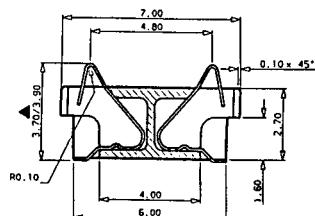
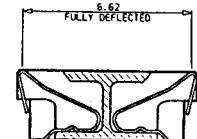
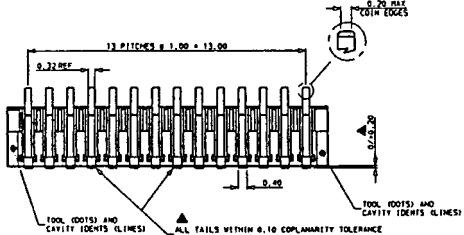
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #273. Visit our website <http://www.avxcorp.com>

MOBO One Piece Board To Board

Series 9158 – Dual Row Solo Stacker™

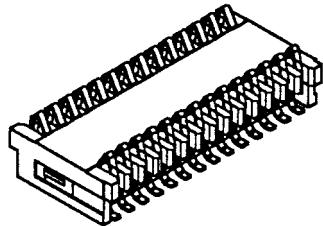


(28 position example)



Features

- Superior drop test performance
- Variable stack height to 0.9mm
- Single piece construction



ORDERING CODE

58 9158 XXX 000 0XX
 PREFIX SERIES NO. OF POSITIONS STACK HEIGHT

Series 9158 – Solo Stacker™ – Product Availability

No. of Positions	Nominal Stack Height (mm)							
	2.00	2.20	2.40	2.60	3.00	3.20	4.00	5.00
4 way							•	
16 way	•*	•*	•*	•				
18 way							•	
20 way	•*	•*	•*	•*				
24 way	•*	•*	•*	•*				
28 way	•*	•*	•*	•*		•		
30 way								•
32 way					•			
34 way	•							

*Denotes that part is currently being tooled.

All stack height dimensions are nominal. Tolerance varies depending on application.

Connectors can be supplied with or without location bosses.

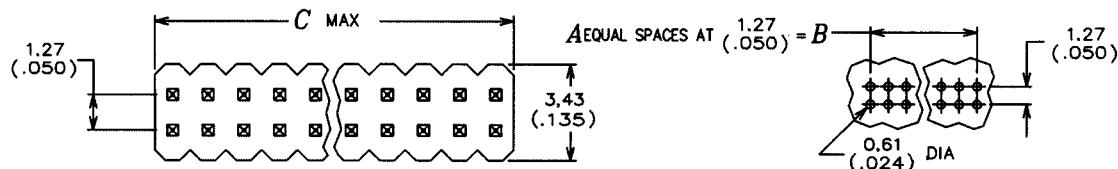
Cells with grey shading denote that part is custom special.

Custom options available.

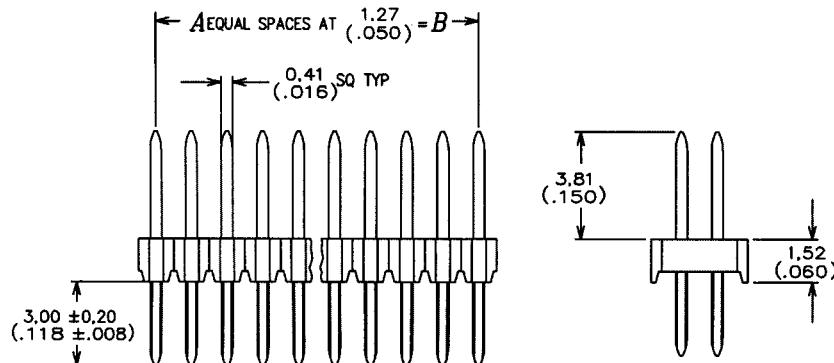
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #274. Visit our website <http://www.avxcorp.com>

Torson Board To Board Connectors

.050 Centerline, 2 Row, Vertical, Thru Board

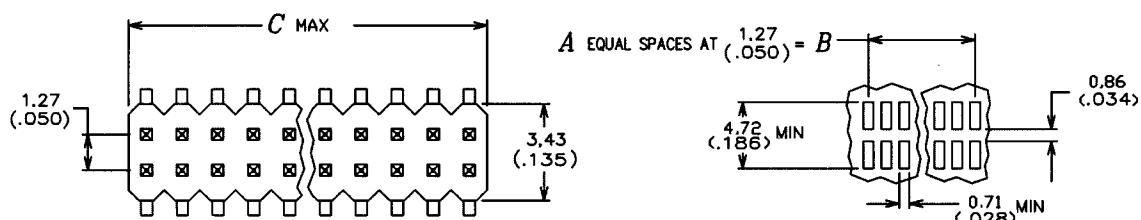


RECOMMENDED P.C. BOARD LAYOUT
SCALE 4:1

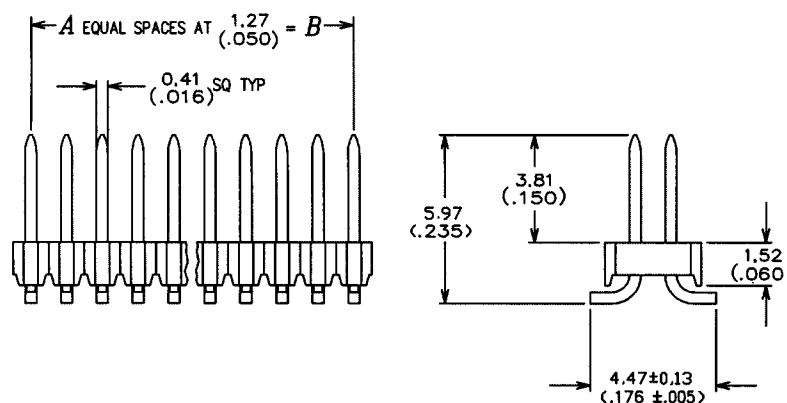


ORDERING CODE
10 5016 2XXX 10 001

.050 Centerline, 2 Row, SMT, Vertical



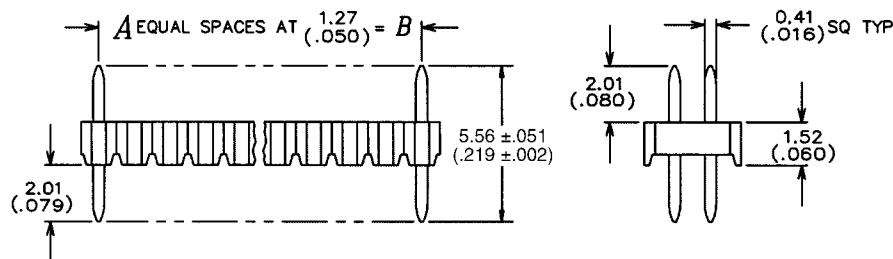
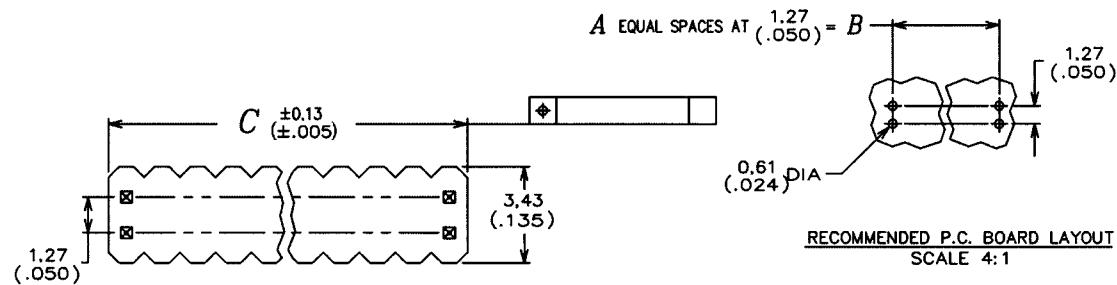
RECOMMENDED P.C. BOARD LAYOUT
SCALE 4:1



ORDERING CODE
11 5016 2XXX 10 001

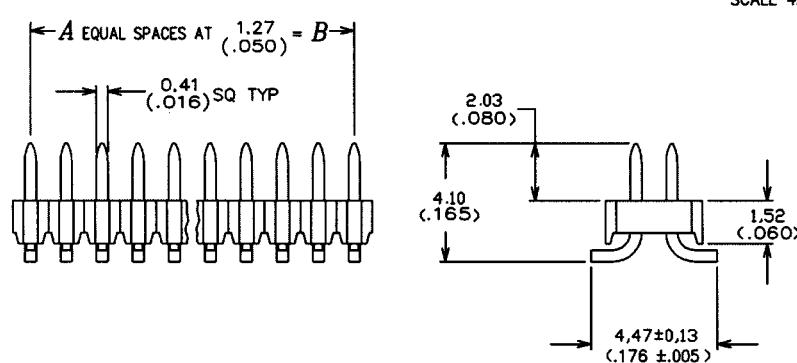
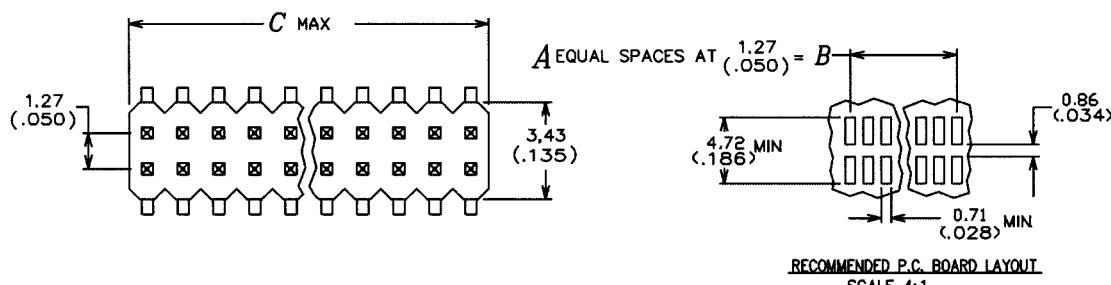
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #275. Visit our website <http://www.avxcorp.com>

Torson Board To Board Connectors .050 Centerline, 2 Row, Low Profile



ORDERING CODE
12 5016 2XXX 10 001

.050 Centerline, 2 Row, SMT, Low Profile Vertical



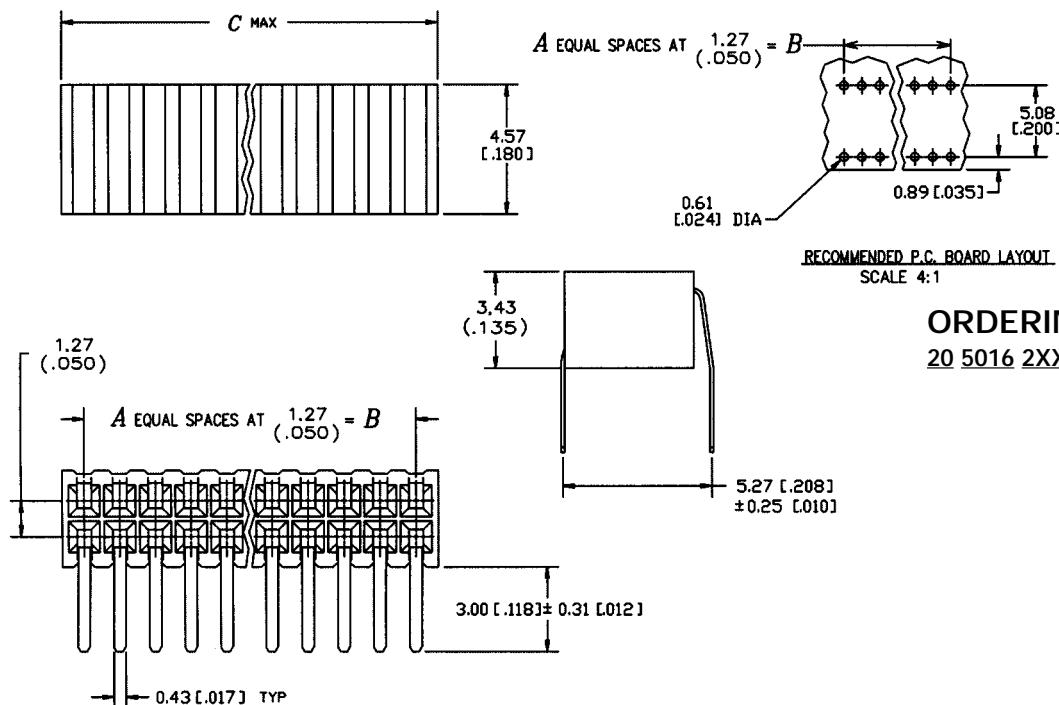
ORDERING CODE
17 5016 2XXX 10 001

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #276. Visit our website <http://www.avxcorp.com>

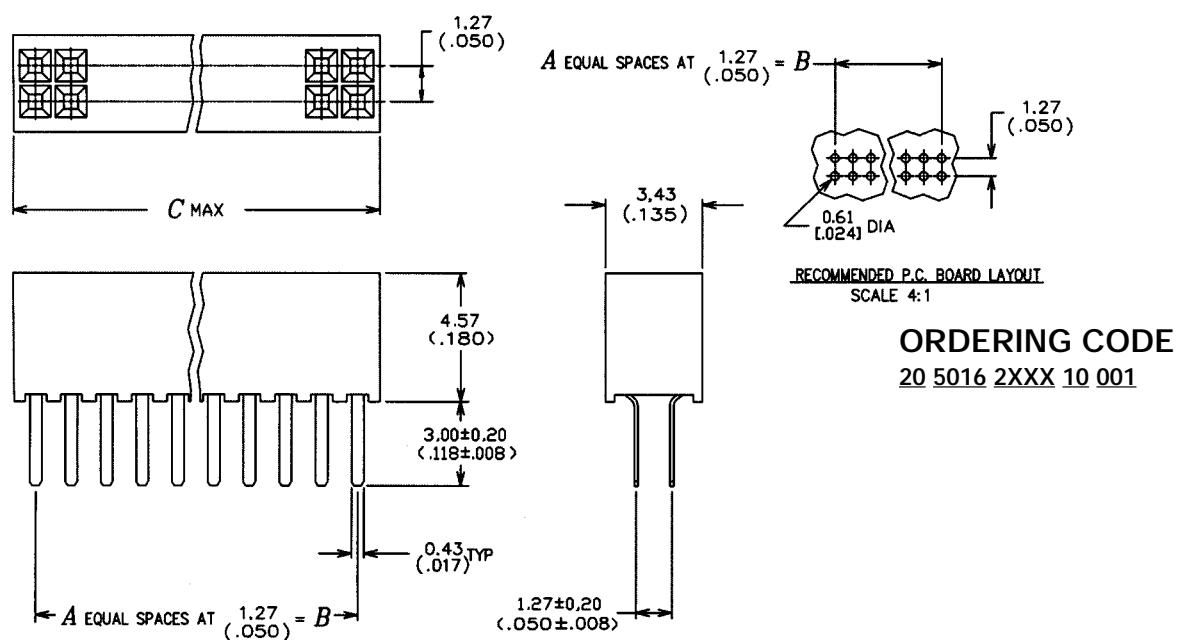
Torson Board To Board Connectors



.050 Centerline, 2 Row, Right Angle, Thru Board



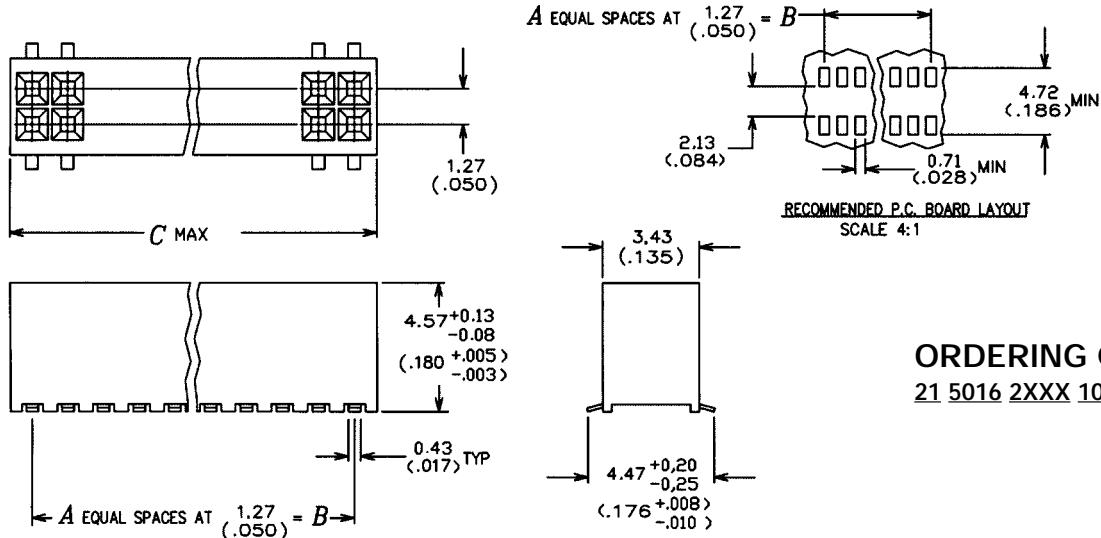
.050 Centerline, 2 Row, Vertical, Thru Board



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #277. Visit our website <http://www.avxcorp.com>

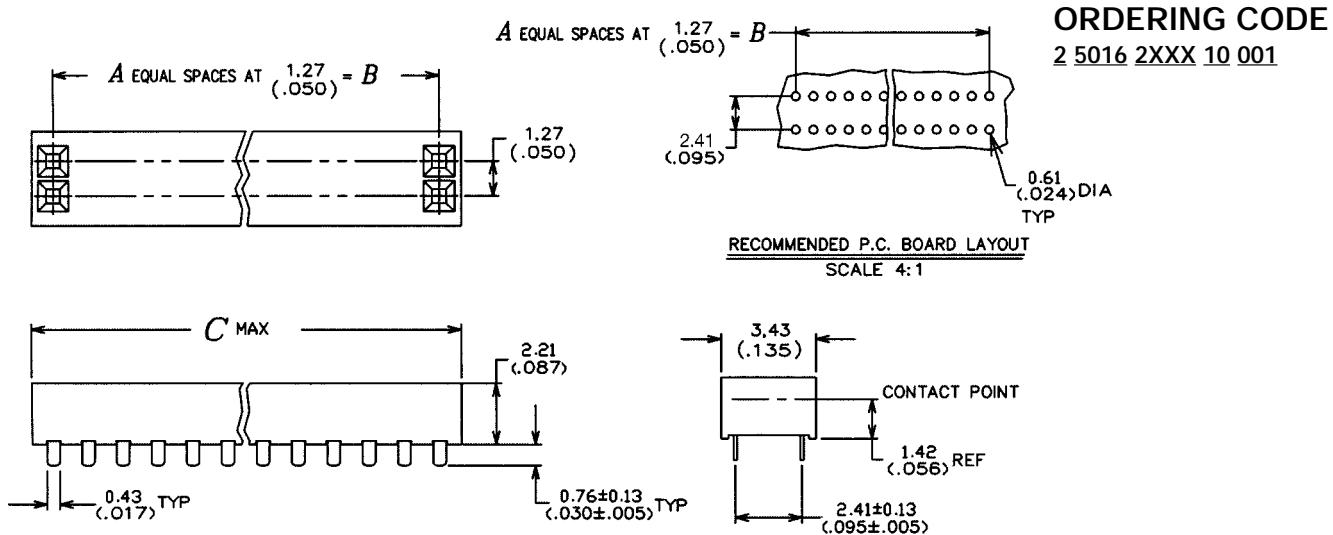
Torson Board To Board Connectors

.050 Centerline, 2 Row, Vertical, SMT



ORDERING CODE
21 5016 2XXX 10 001

.050 Centerline, Low Profile, Thru Board, Top Entry



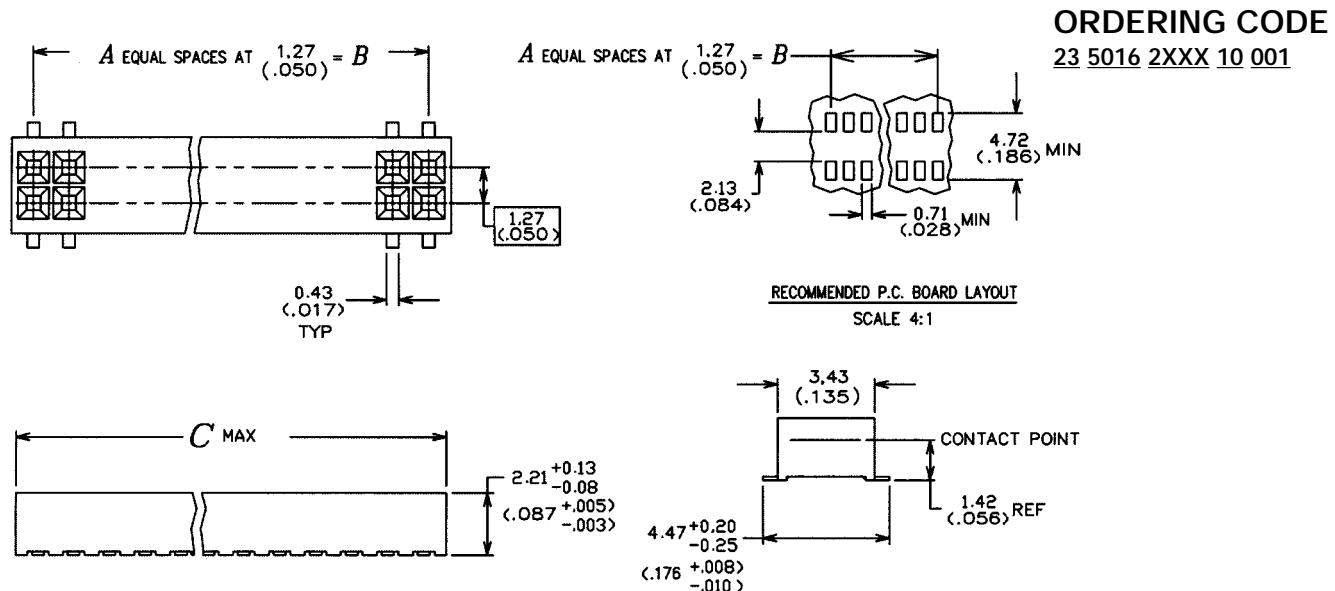
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #278. Visit our website <http://www.avxcorp.com>

ELCO

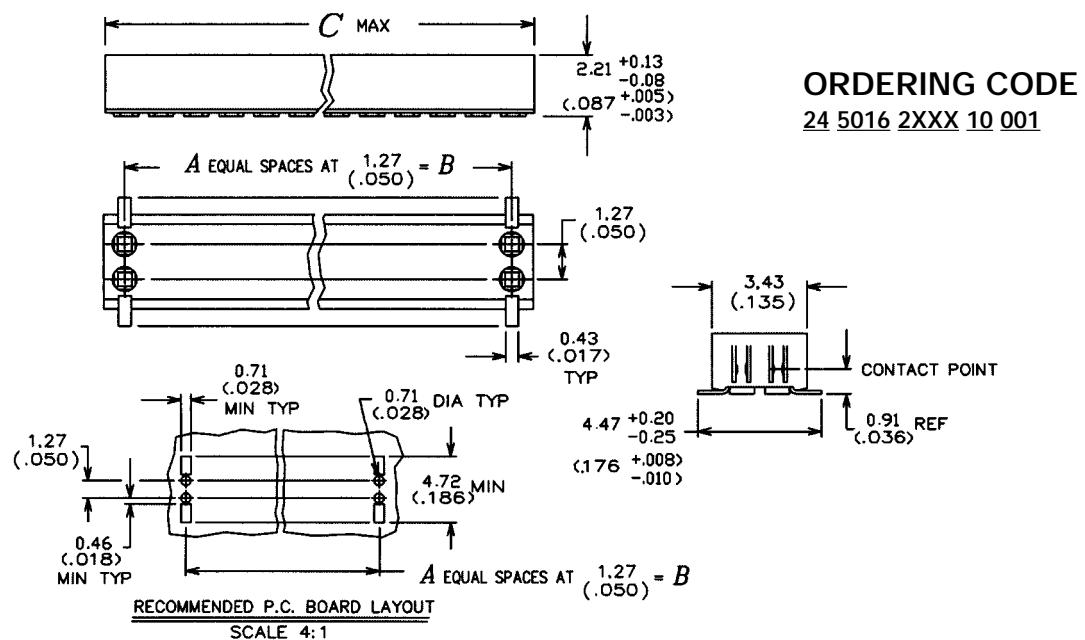
Torson Board To Board Connectors



.050 Centerline, Low Profile, Top Entry, SMT



.050 Centerline, Low Profile, Bottom Entry



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #279. Visit our website <http://www.avxcorp.com>

Elco Current FFC/FPC, Options

FFC/FPC Connectors



Pitch	Series	Soldering SMT	DIP	ZIF	LIF	Style ST	RA	Ag/C Type	Position Number	Contact	Height ST	(in mm) RA	Current Rating	Voltage Rating	Standard Packaging
1.25mm	5062		O	Non	Non	O			5P-23P	No Contact (Direct-Solder)	5		1A	125V	Bulk
	6203		O		O	BOTTOM ENTRY			5P-15P	Single	5.5		1A	125V	Tray
	6205		O	O		O			8P-40P	Single	8.9		1A	125V	Tray
	6207	O			O	O	O		5P-20P	Double	7	3.5	1A	125V	Tray/Tube
	6216		O		O	O	O		4P-40P	Single Top/Bottom	7	4.2	1A	125V	Tray/Tube
	8370		O		O	O	O	O	4P-30P	Double	7.2	4.2	1A	125V	Tray
1.00mm	6200	O	O	O		O	O		5P-30P	Single Bottom		2.9	1A	50V	1Kpcs/Reel, Tray
	6208	O	O	O		O		O	5P-30P	Single	5~5.5		1A	50V	1Kpcs/Reel, Tray
	6224	O		O		O		O	5P-30P	Single Top		2.9	1A	50V	1Kpcs/Reel, Tray
	6226	O			O	O			4P-20P	Double	3.5		1A	50V	1Kpcs/Reel, Tray
	6227	O			O		O		4P-20P	Double		2	1A	50V	1Kpcs/Reel, Tray
	6228		O		O	O	O		3P-22P	Single Top	4.8	3	0.5A	50V	Tray
	6229	O	O	O		O			40P	Single	5.7		1A	50V	Tray
	6231	O			O	O			26P	Single	5.5		1A	50V	1Kpcs/Reel
	6232	O	O		O	O	O		3P-30P	Single Top/Bottom	5.5	3	0.5A	50V	1Kpcs/Reel, Tray
	6237	O		O		O			30P	Single Bottom		2	0.4A	50V	1Kpcs/ Reel
	6241		O	O		O			56P	Single Bottom		5.45	0.5A	50V	Tray
	6247		O	O		O			48P	Single	5.5		0.5A	50V	Tray
	6248	O		O		O			30P	Single	5.5		0.5A	50V	Tray
0.80mm	6206	O			O		O		4P-20P	Double		2	0.5A	50V	1Kpcs/ Reel
	6218	O			O	O			10P(5PX2)	Double	3.5		0.5A	50V	1.5Kpcs/ Reel
0.50mm	6210	O		O		O			5P-30,33,36,40P	Single Bottom		2	0.4A	50V	2Kpcs/ Reel
	6212	O		O		O			5P-30,33,35,36,40P	Single Top		2	0.4A	50V	2Kpcs/ Reel
	6214	O		O		O			6P-30P	Single	4.1		0.4A	50V	1Kpcs/ Reel
	6222	O			O		O		5P-30P	Single Bottom		1.95	0.4A	50V	2Kpcs/ Reel
	6223	O			O		O		5P-30P	Single Top		1.95	0.4A	50V	2Kpcs/ Reel
	6239	O		O		O			5P-30P	Single Bottom Flip Top		1.5	0.4A	50V	2Kpcs/ Reel
	6240	O		O		O			30P-50P	Single Bottom Flip Top		2	0.4A	50V	2Kpcs/ Reel
	6244	O			O	O			12/14/20/22	Single	4.1		0.4A	50V	1Kpcs/ Reel
	6250	O		O		O			8,9,13P	Single Bottom		0.9	0.4A	50V	2Kpcs/ Reel
	6252	O		O		O			6,8,9,10,12,18,22,27P	Single Top		0.9	0.4A	50V	2Kpcs/ Reel
	6260	O		O		O		O	5P-30P	Single Bottom		2	0.4A	50V	2Kpcs/ Reel
	6262	O		O		O		O	5P-30P	Single Top		2	0.4A	50V	2Kpcs/ Reel
0.30mm	6245	P		P		P				Single Bottom		Under Development			

O = Mass Production Tool

P = Prototype

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #280. Visit our website <http://www.avxcorp.com>

ELCO

FFC/FPC Connectors 1.25mm Pitch

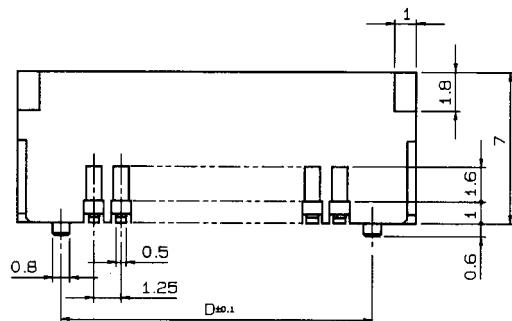
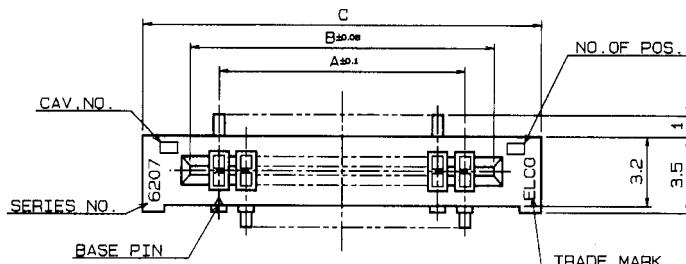
Series 6207 LIF Straight SMT



ORDERING CODE

00 6207 33 29 XX 000

NUMBER OF
POSITIONS (05-20)



A = 1.25 (N -1)
B = 1.25 N +1.41
C = 1.25 N +5.75
D = 1.25 N +1.75

Specifications

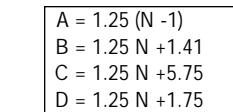
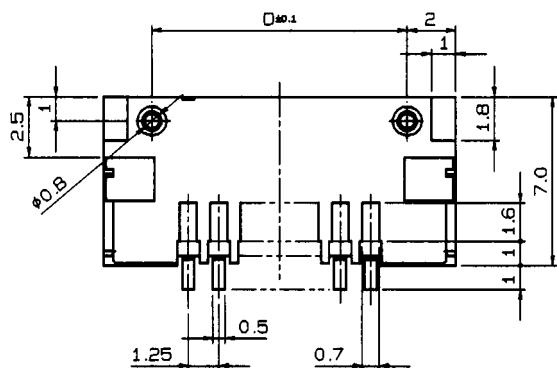
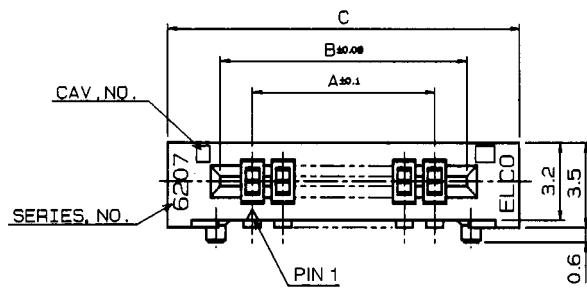
- Number of Positions – 5-20
- Tube Packaged
- Voltage – 125 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled PPS (UL 94 V-O) brown color
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 7.0mm (0.276")

Series 6207 LIF Right Angle SMT

ORDERING CODE

00 6207 34 19 XX 000

NUMBER OF
POSITIONS (05-20)



4.1

0.4

2.2

5.2

4.1

0.4

2.2

5.2

4.1

0.4

2.2

5.2

4.1

0.4

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5.2

4.1

0.4

2.2

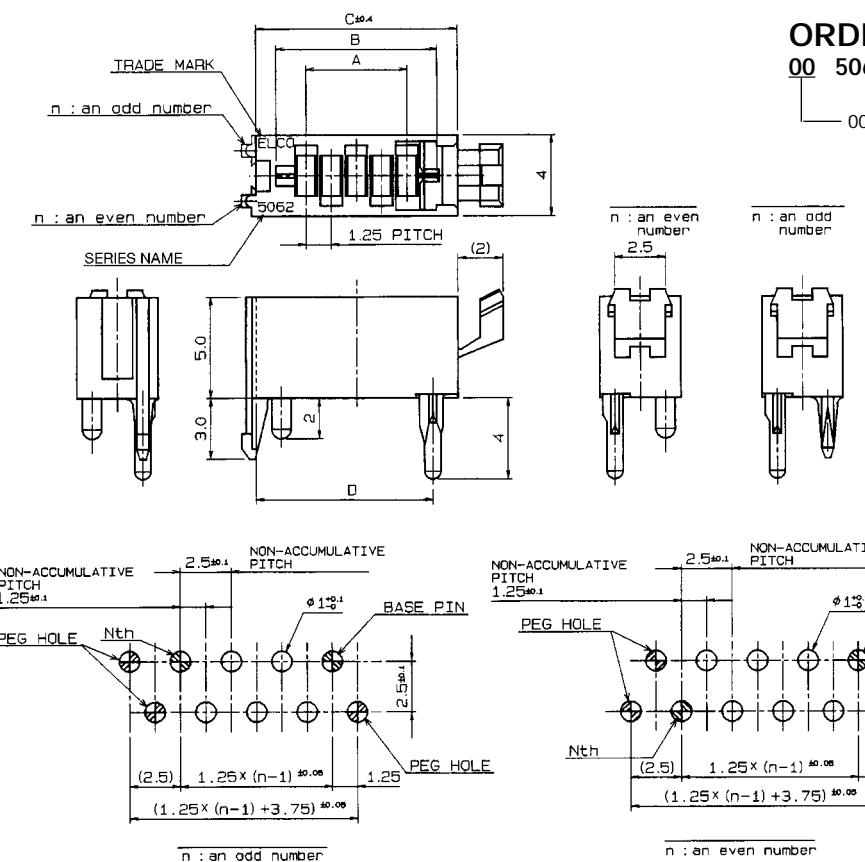
5.2

4.1

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FFC/FPC Connectors 1.25mm Pitch

Series 5062 Straight



ORDERING CODE

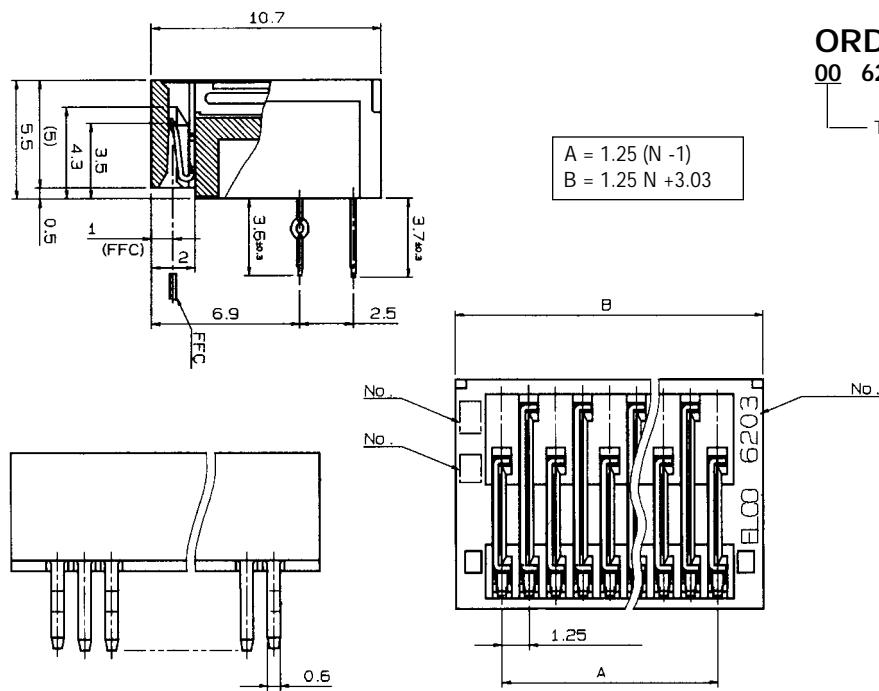
00 5062 30 10 XX 000

00-BULK PACKAGE NUMBER OF POSITIONS (05-23)

Specifications

- Number of Positions – 5-23
- Vinyl Bag Packaged
- Voltage – 125 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Insulator Material – PBT, natural color (UL 94 V-O)
- FFC/FPC Thickness – 0.3 ±0.05 mm (0.012 ±0.002")
- PCB Thickness – 1.6mm (0.633")
- Profile Height – 5.0mm (0.197")

Series 6203 LIF Right Angle Through-Hole (Bottom Entry)



ORDERING CODE

00 6203 3010 XX 000

TRAY PACKAGE NUMBER OF POSITIONS (05-15)

Specifications

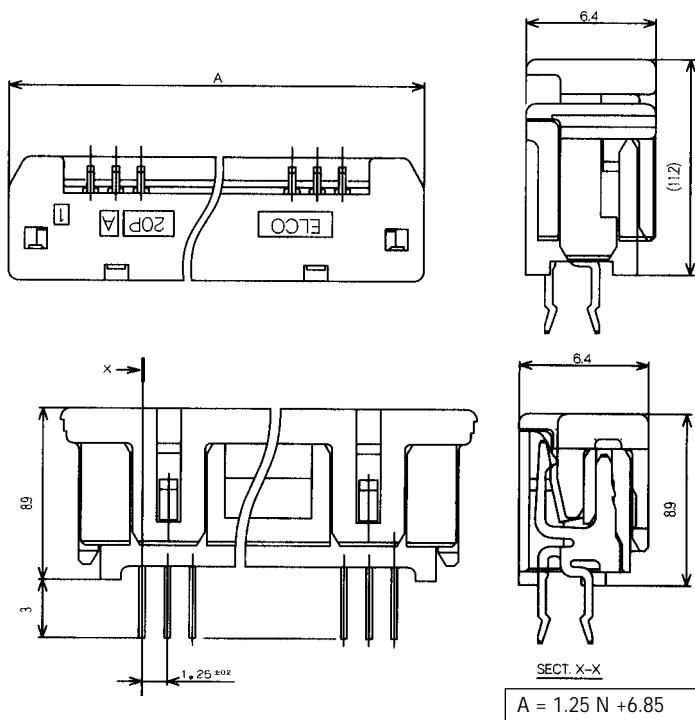
- Number of Positions – 5-15
- Tray Packaged
- Voltage – 125 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled nylon (UL 94 V-O)
- FFC/FPC Thickness – 0.3 ±0.05 mm (0.012 ±0.002")
- PCB Thickness – 1.2-1.6mm (0.047-0.063")
- Allows insertion of FFC/FPC from bottom of PC board, at edge or through slit
- Profile Height – 5.5mm (0.217")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #282. Visit our website <http://www.avxcorp.com>

ELCO

FFC/FPC Connectors 1.25mm Pitch

Series 6205 ZIF Straight Through-Hole



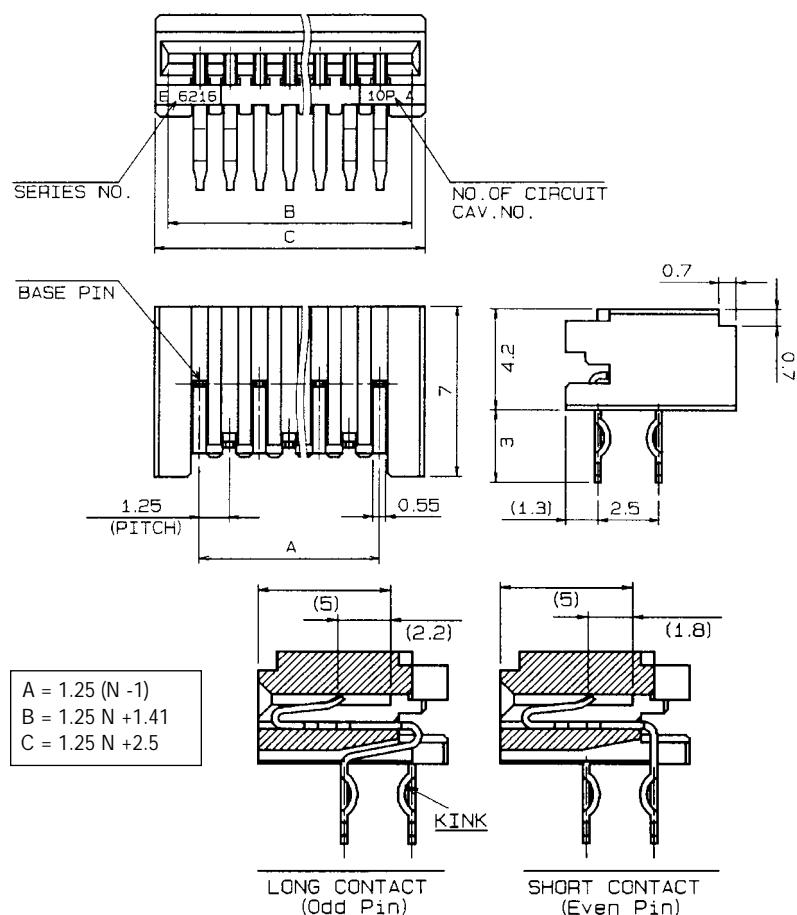
ORDERING CODE

00 6205 XX0 500 825
 └── NUMBER OF POSITIONS (08-40)
 └── TRAY PACKAGE

Specifications

- Number of Positions – 8-40
- Tray Packaged
- Voltage – 125 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-40°C - +90°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled PBT, (UL 94 V-O) black color
- Slider Material – glass-filled PBT, (UL 94 V-O) beige color
- FFC/FPC Thickness – 0.3 ±0.05 mm (0.012 ±0.002")
- PCB Thickness – 1.6mm (0.063")
- Profile Height – 8.9mm (0.350")

Series 6216 LIF Right Angle Through-Hole (Bottom Contact)



ORDERING CODE

XX 6216 0XX 10X 808
 └── NUMBER OF POSITIONS (04-30)
 └── VARIATION CODE
 0:WITH KINKED LEGS (EACH TWO PINS AT BOTH ENDS)
 1:WITHOUT KINKED LEGS
 └── 00:TRAY PACKAGE
 └── 28:TUBE PACKAGE

Specifications

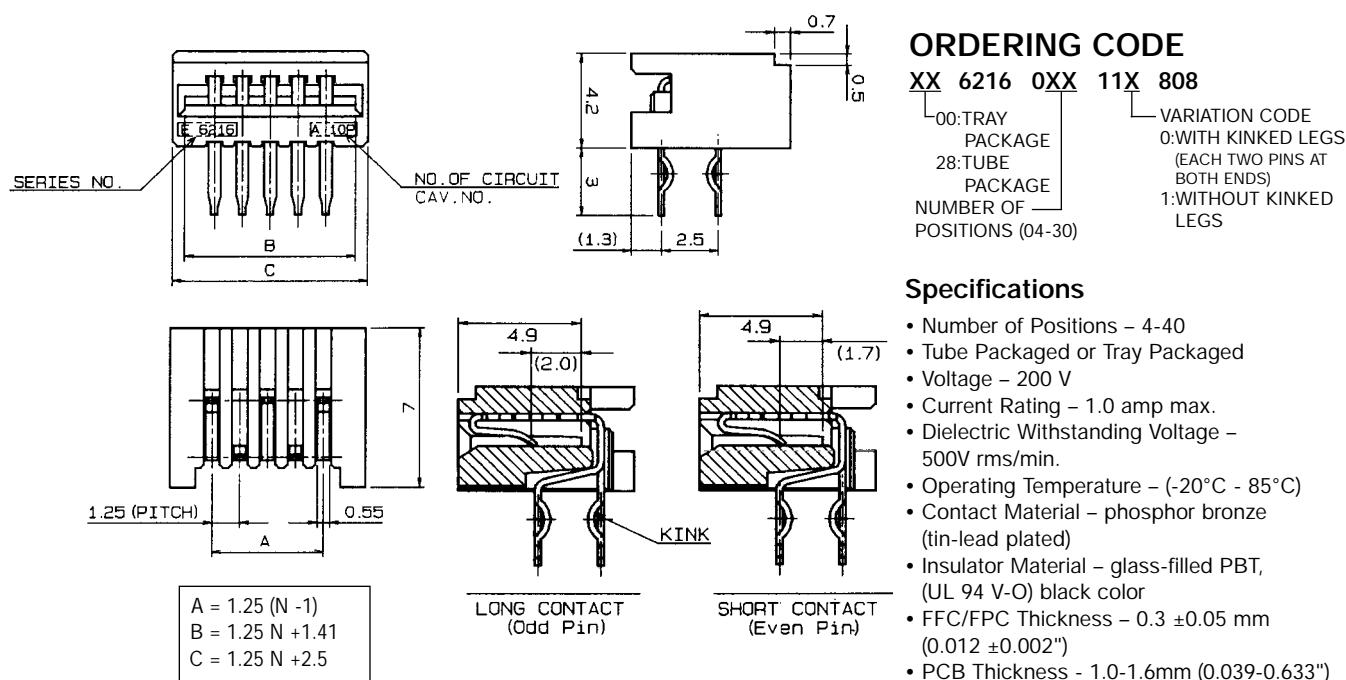
- Number of Positions – 4-40
- Tube Packaged or Tray Packaged
- Voltage – 200 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled PBT, (UL 94 V-O) black color
- FFC/FPC Thickness – 0.3 ±0.05 mm (0.012 ±0.002")
- PCB Thickness – 1.0-1.6mm (0.039-0.633")
- Profile Height – Straight – 7.0mm (0.276") Right Angle – 4.2mm (0.165")
- Reverse footprint for straight type also available – contact sales office for details

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #283. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 1.25mm Pitch



Series 6216 LIF Right Angle Through-Hole (Top Contact)



ORDERING CODE

XX 6216 0XX 11X 808

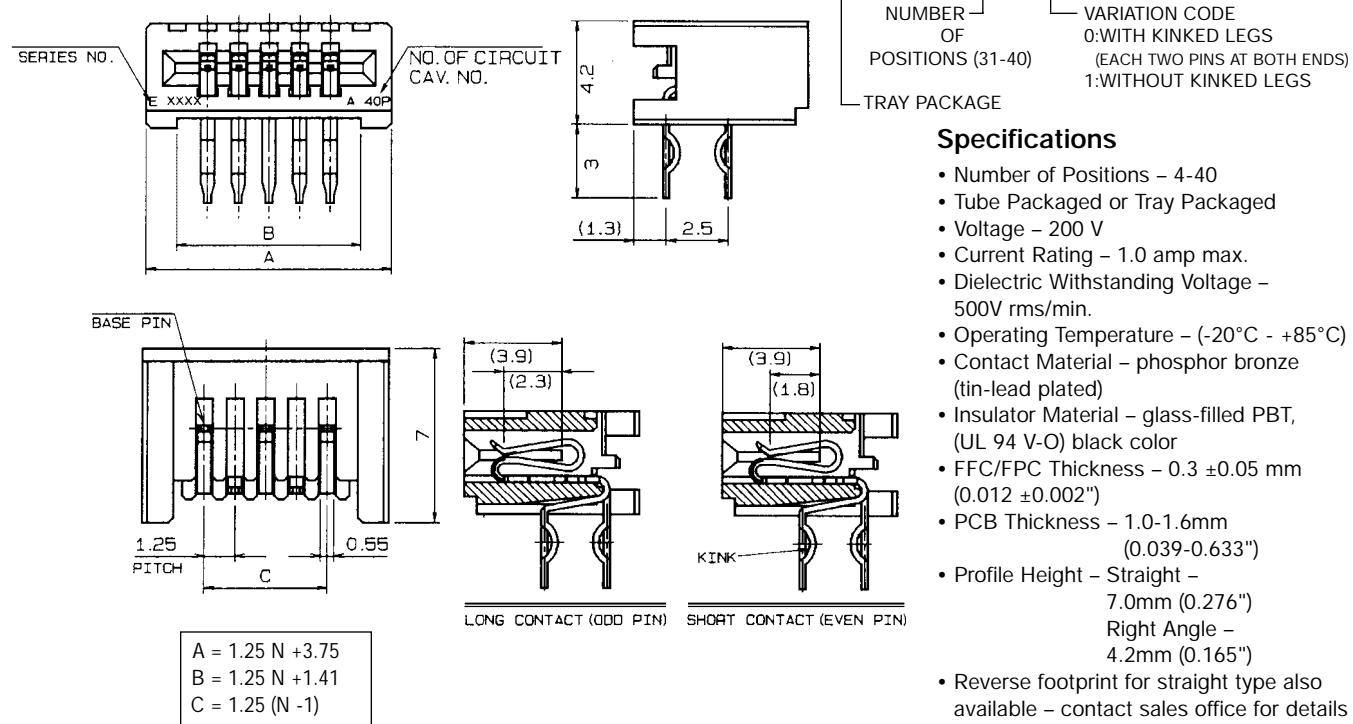
00:TRAY PACKAGE
28:TUBE PACKAGE
NUMBER OF POSITIONS (04-30)

VARIATION CODE
0:WITH KINKED LEGS (EACH TWO PINS AT BOTH ENDS)
1:WITHOUT KINKED LEGS

Specifications

- Number of Positions – 4-40
- Tube Packaged or Tray Packaged
- Voltage – 200 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - 85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled PBT, (UL 94 V-O) black color
- FFC/FPC Thickness – 0.3 ±0.05 mm (0.012 ±0.002")
- PCB Thickness - 1.0-1.6mm (0.039-0.633")
- Profile Height – Straight – 7.0mm (0.276")
Right Angle – 4.2mm (0.165")
- Reverse footprint for straight type also available – contact sales office for details

Series 6216 LIF Right Angle Through-Hole (High Pin Count)



ORDERING CODE

00 6216 0XX 12X 808

NUMBER OF POSITIONS (31-40)

VARIATION CODE
0:WITH KINKED LEGS (EACH TWO PINS AT BOTH ENDS)
1:WITHOUT KINKED LEGS

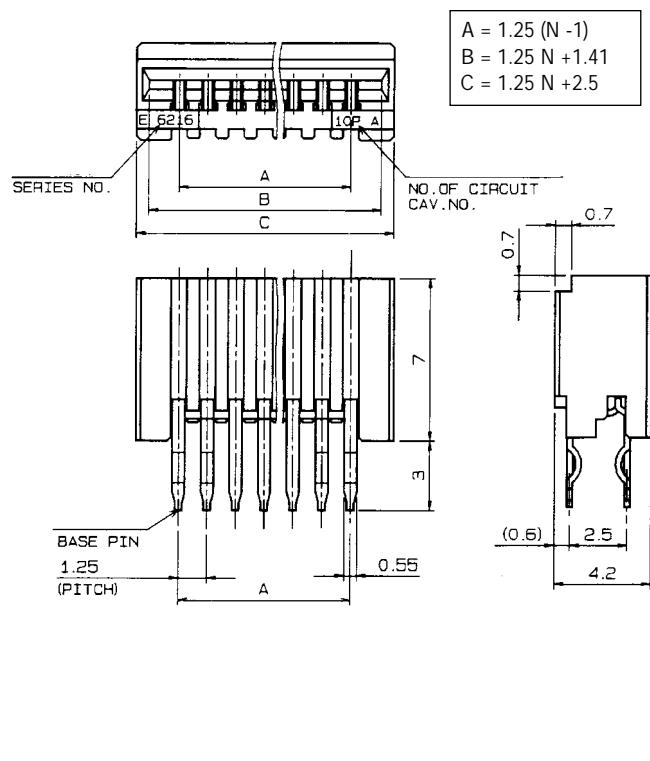
Specifications

- Number of Positions – 4-40
- Tube Packaged or Tray Packaged
- Voltage – 200 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled PBT, (UL 94 V-O) black color
- FFC/FPC Thickness – 0.3 ±0.05 mm (0.012 ±0.002")
- PCB Thickness – 1.0-1.6mm (0.039-0.633")
- Profile Height – Straight – 7.0mm (0.276")
Right Angle – 4.2mm (0.165")
- Reverse footprint for straight type also available – contact sales office for details

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #284. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 1.25mm Pitch

Series 6216 LIF Straight Through-Hole



ORDERING CODE

00 6216 0XX 00X 808

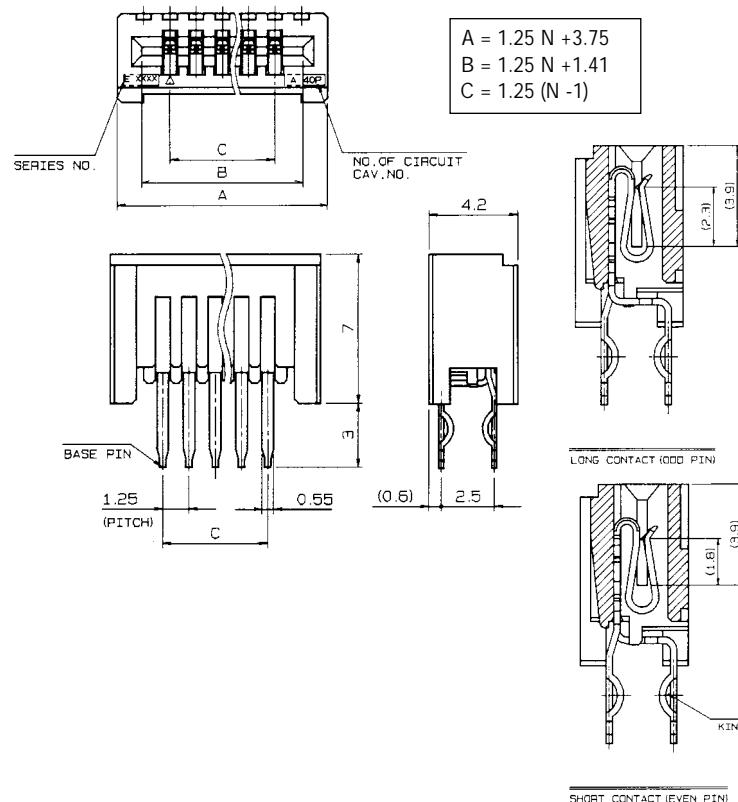
NUMBER OF POSITIONS (04-30) TRAY PACKAGE

VARIATION CODE
0:WITH KINKED LEGS
(EACH TWO PINS AT BOTH ENDS)
1:WITHOUT KINKED LEGS

Specifications

- Number of Positions – 4-40
- Tube Packaged or Tray Packaged
- Voltage – 200 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled PBT, (UL 94 V-O) black color
- FFC/FPC Thickness – 0.3 ± 0.05 mm (0.012 ± 0.002")
- PCB Thickness - 1.0-1.6mm (0.039-0.633")
- Profile Height – Straight – 7.0mm (0.276")
Right Angle – 4.2mm (0.165")
- Reverse footprint for straight type also available – contact sales office for details

Series 6216 LIF Straight Through-Hole (High Pin Count)



ORDERING CODE

00 6216 1XX 82X 808

NUMBER OF POSITIONS (31-40) TRAY PACKAGE

VARIATION CODE
0:WITH KINKED LEGS
(EACH TWO PINS AT BOTH ENDS)
1:WITHOUT KINKED LEGS

Specifications

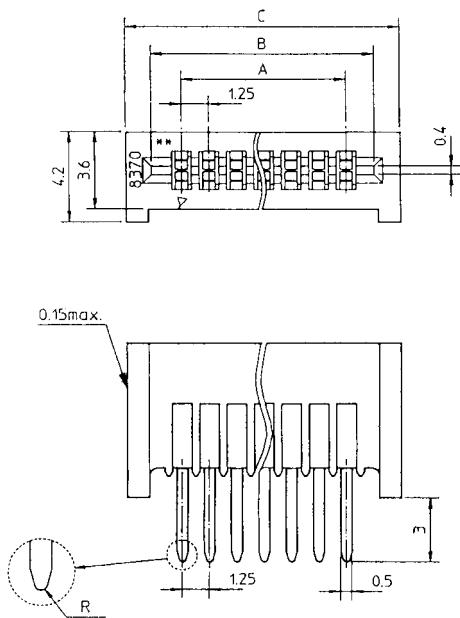
- Number of Positions – 4-40
- Tube Packaged or Tray Packaged
- Voltage – 200 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled PBT, (UL 94 V-O) black color
- FFC/FPC Thickness – 0.3 ± 0.05 mm (0.012 ± 0.002")
- PCB Thickness - 1.0-1.6mm (0.039-0.633")
- Profile Height – Straight – 7.0mm (0.276")
Right Angle – 4.2mm (0.165")
- Reverse footprint for straight type also available – contact sales office for details

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #285. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 1.25mm Pitch



Series 8370 LIF Straight Through-Hole (Dual Sided Contact)



ORDERING CODE

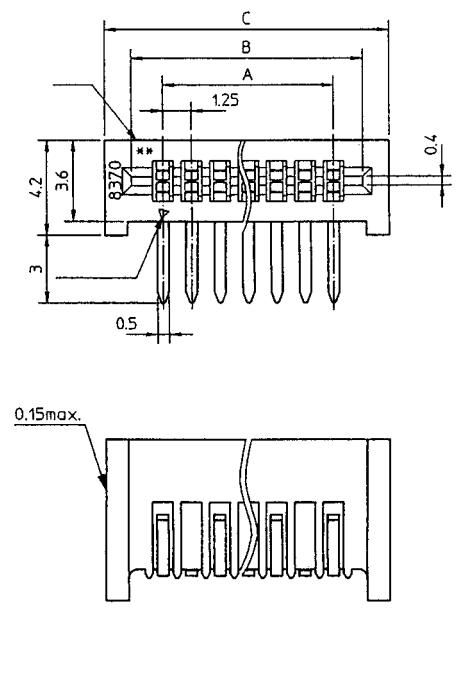
00 8370 XX1 00X 800
 NUMBER OF POSITIONS (04-30) 0=TRAY PACKAGE
 1=TUBE PACKAGE
 0=KINKED LEGS (Preferred option)
 1=NON-KINKED LEGS

Specifications

- Number of Positions – 4-30
- Tray Packaged or Tube
- Voltage – 125 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled PBT, (UL 94 V-O) black color
- FFC/FPC Thickness – 0.3 ±0.05 mm (0.012 ±0.002")
- PCB Thickness – 1.0 - 1.6mm (0.039-0.633")
- Profile Height – Straight – 7.2mm (0.276")
Right Angle – 4.2mm (0.165")

A = 1.25 (N -1)
 B = 1.25 N +1.41
 C = 1.25 N +3.75

Series 8370 LIF Right Angle Through-Hole (Dual Sided Contact)



ORDERING CODE

00 8370 XX7 00X 800
 NUMBER OF POSITIONS (04-30) 0=TRAY PACKAGE
 1=TUBE PACKAGE
 0=KINKED LEGS (Preferred option)
 1=NON-KINKED LEGS

Specifications

- Number of Positions – 4-30
- Tray Packaged or Tube
- Voltage – 125 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled PBT, (UL 94 V-O) black color
- FFC/FPC Thickness – 0.3 ±0.05 mm (0.012 ±0.002")
- PCB Thickness – 1.0 - 1.6mm (0.039-0.633")
- Profile Height – Straight – 7.2mm (0.276")
Right Angle – 4.2mm (0.165")

A = 1.25 (N -1)
 B = 1.25 N +1.41
 C = 1.25 N +3.75

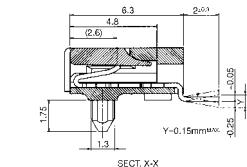
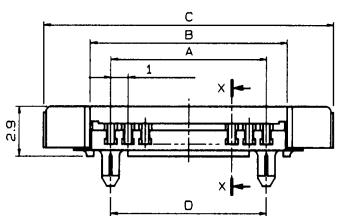
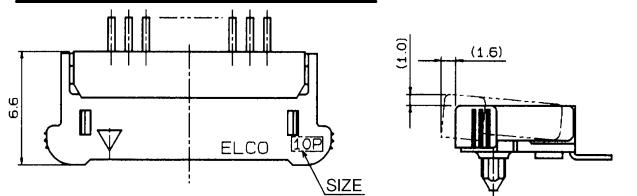
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #286. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 1.00mm Pitch



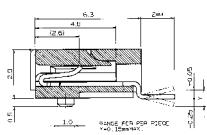
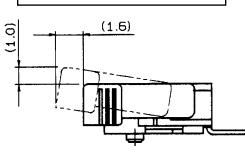
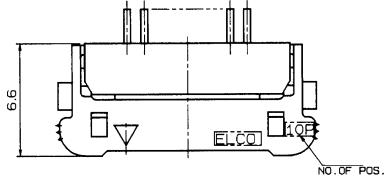
Series 6200 ZIF Right Angle SMT (Bottom Contact)

SMT With Alignment Boss

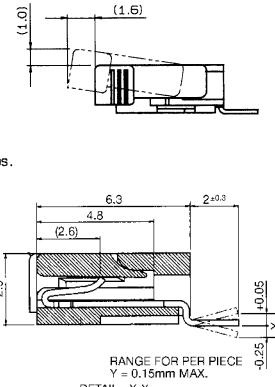
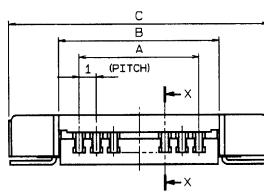
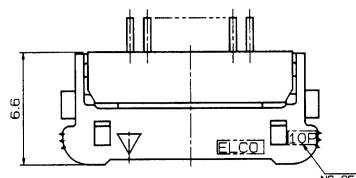


A, F = 1.00 (N-1)
B = 1.00N + 1.4
C, D = 1.00N + 7.25
E = 1.00N + 7.65

WITH SOLDER TAB/BOSS



WITH SOLDER TAB, NO BOSS

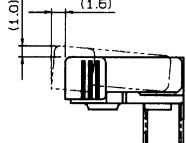
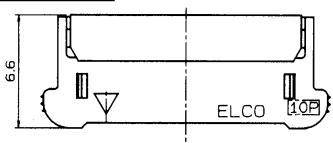


RANGE FOR PER PIECE
Y = 0.15mm MAX.

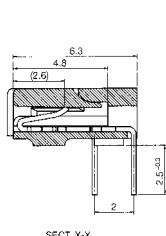
DETAIL X-X

Series 6200 ZIF Right Angle Through-Hole (Bottom Contact)

THROUGH-HOLE



A = 1.00 (N-1)
B = 1.00N + 1.4
C = 1.00N + 6.45



ORDERING CODE

XX 6200 XX7 012 800

NUMBER
OF
POSITIONS (05-30)

TRAY PACKAGE
FLEX TYPE
00=STANDARD FFC/FPC
05=CARBON PASTE MEMBRANE FLEX

Specifications

- Number of Positions – 5-30
- Tray Packaged
- Voltage – 50 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator & Slider Material – PPS, brown color (UL 94 V-O)
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 2.90mm (0.114")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #287. Visit our website <http://www.avxcorp.com>

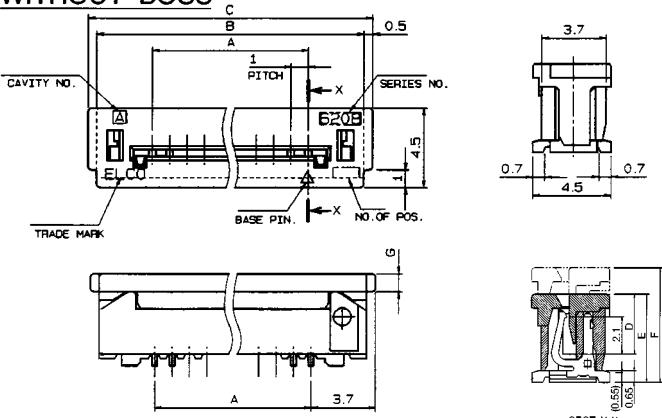
ELCO

FFC/FPC Connectors 1.00mm Pitch

Series 6208 ZIF Straight SMT



WITHOUT BOSS



ORDERING CODE

XX 6208 XXX 0XX XXX

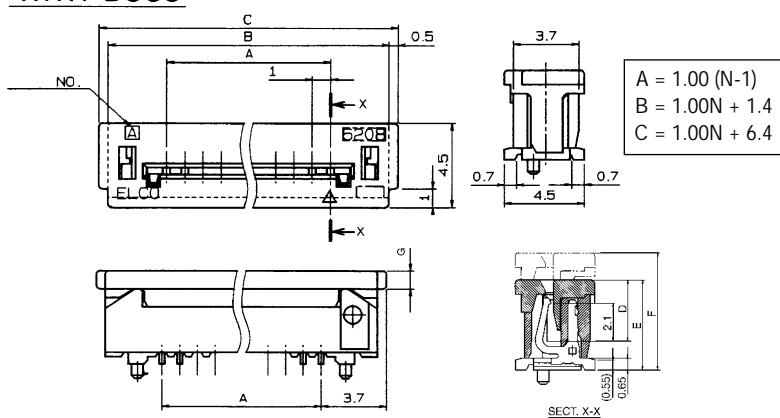
00=TRAY
08=TUBE PACKAGE

FLEX TYPE
000=STANDARD
009=CARBON PASTE

VARIATION CODE
+500:SMT WITHOUT BOSS
520:SMT WITH BOSS (2 Places)

NUMBER OF POSITIONS (05-30)

WITH BOSS

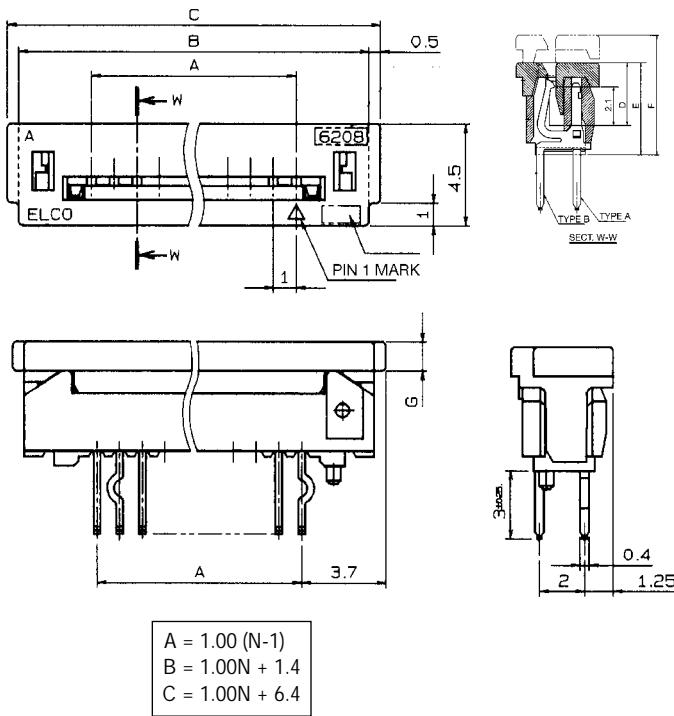


Specifications

- Number of Positions – 5-30
- Tray Packaged, Tube or Tape & Reel - (Contact Sales Office for Tape & Reel)
- Voltage – 50 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-30°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Slider Material – PPS (UL 94 V-O)
- Insulator Material – glass-filled nylon, PPS
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- PCB Thickness – 1.2-1.6mm .047 ~ .063"
- Profile Height – See "E" dimension

No. of Positions	D	E	F	G
5 to 20	3.4	5.0	6.5	0.8
21 to 25	3.6	5.2	6.7	1.0
26 to 30	3.9	5.5	7.0	1.3

Series 6208 ZIF Straight Through-Hole



ORDERING CODE

XX 6208 XX0 1XX 001

NUMBER OF POSITIONS (05-30)

0:WITHOUT BOSS
1:WITH BOSS (1 Place)

0:WITH KINKED LEGS (Preferred option)
1:WITHOUT KINKED LEGS

08=TUBE PACKAGE
(WITHOUT KINKED LEGS/BOSS)

Specifications

- Number of Positions – 5-30
- Tray Packaged, Tube Packaged
- Voltage – 50 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-30°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Slider Material – PPS (UL 94 V-O)
- Insulator Material – glass-filled nylon, PPS
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- PCB Thickness – 1.2-1.6mm .047 ~ .063"
- Profile Height – See "E" dimension

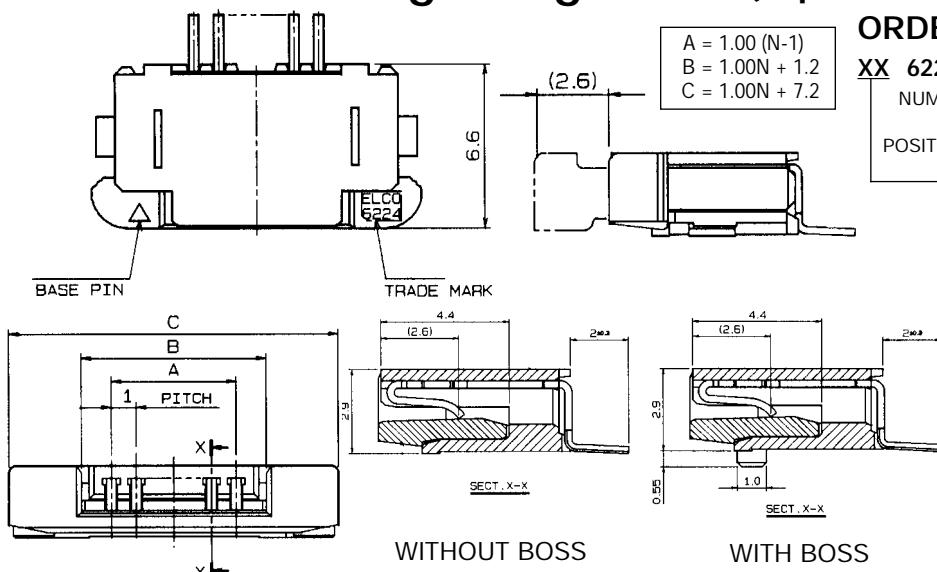
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #288. Visit our website <http://www.avxcorp.com>

ELCO

FFC/FPC Connectors 1.00mm Pitch



Series 6224 ZIF Right Angle SMT (Top Contact)



ORDERING CODE

XX 6224 OXX XXX 800

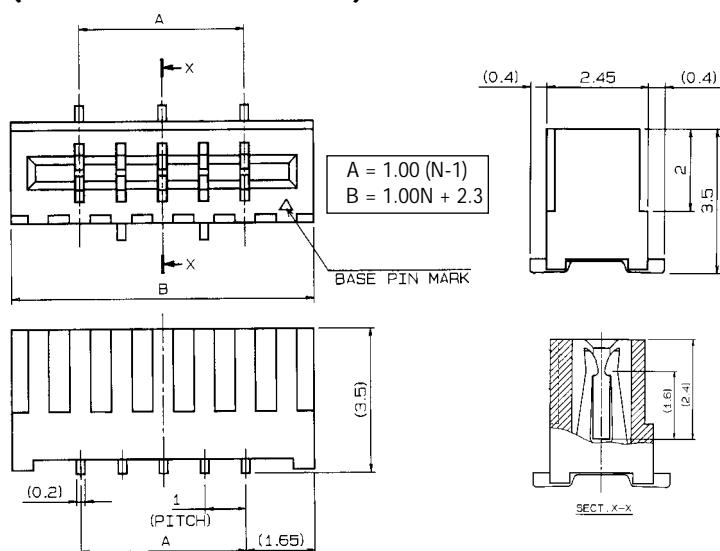
NUMBER
OF
POSITIONS (05-30)

FLEX TYPE
001: STANDARD WITHOUT BOSS
002: CARBON PASTE WITHOUT BOSS
003: STANDARD WITH BOSS (Tray only)
004: CARBON PASTE WITH BOSS (Tray only)
08=TAPE AND REEL
00=TRAY PACKAGING (only with boss)

Specifications

- Number of Positions – 5-30
- 1000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact & Metal Tab Material – phosphor bronze (tin-lead plated)
- Slider Material – PPS, black color (UL 94 V-O)
- Insulator Material – PPS, brown color (UL 94 V-O)
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 2.90mm (0.114")

Series 6226 LIF Straight SMT (Dual Sided Contact)



ORDERING CODE

04 6226 OXX 001 800

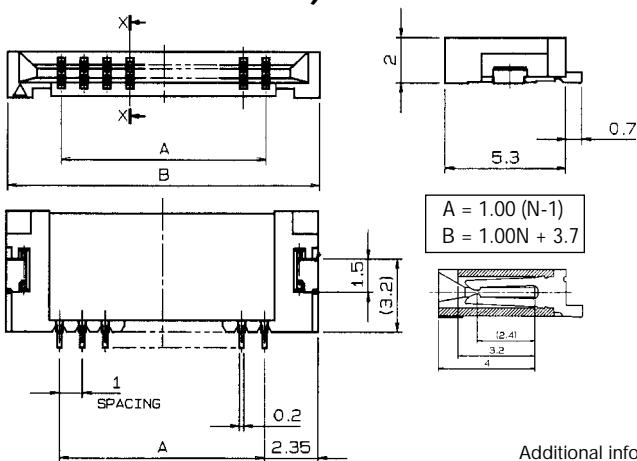
NUMBER OF POSITIONS (04-20)

TRAY PACKAGE

Specifications

- Number of Positions – 4-20
- Tray Packaged
- Some sizes available Tape & Reeled
- Voltage – 50 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze(tin-lead plated)
- Insulator Material – glass-filled nylon
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 3.50mm (0.138")

Series 6227 LIF Right Angle SMT (Dual Sided Contact)



ORDERING CODE

04 6227 OXX 100 800

NUMBER OF POSITIONS (04-20)

TAPE AND REEL

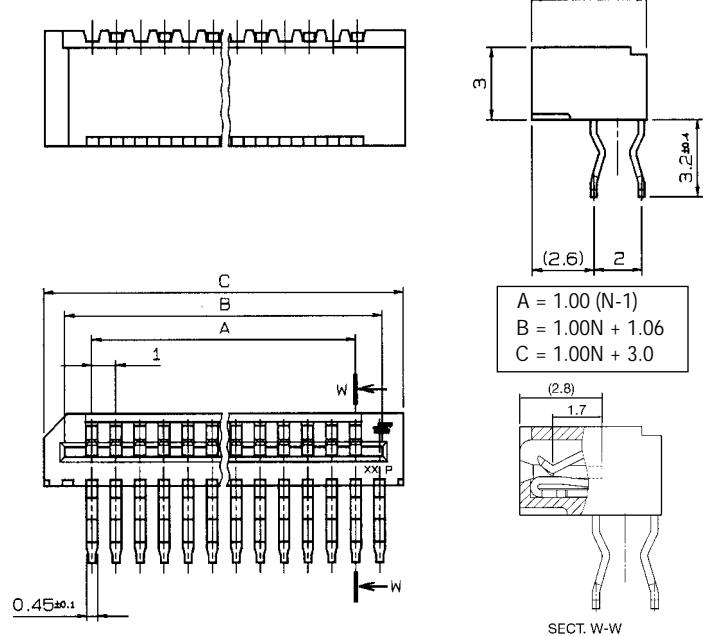
Specifications

- Number of Positions – 4-20
- 1000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact & Metal Tab Material – phosphor bronze (tin-lead plated)
- Insulator Material – nylon 46, natural color (UL 94 V-O)
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 2.00mm (0.079")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #289. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 1.00mm Pitch

Series 6228 LIF Right Angle Through-Hole (Top Contact)



ORDERING CODE

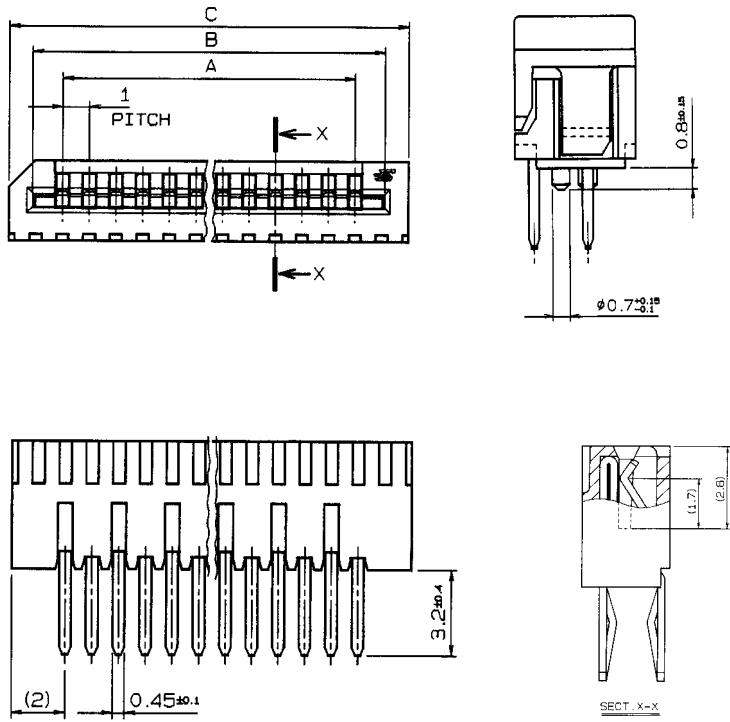
00 6228 0XX 2X1 800
 NUMBER _____ OF POSITIONS (03-22)
 TRAY PACKAGE

0=TAIL 3.2mm
 2=TAIL 2.5mm

Specifications

- Number of Positions – 3-22
- Tray Packaged
- Voltage – 50 V
- Current Rating – 0.5 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – 66 nylon, natural color (UL 94 V-O)
- FFC/FPC Thickness – $0.3 \pm 0.05\text{mm}$ ($0.012 \pm 0.002"$)
- PCB Thickness – 1.60mm (0.063")
- Profile Height – 3.00mm right angle (0.118")
4.80mm straight (0.189")

Series 6228 LIF Straight Through-Hole



ORDERING CODE

00 6228 0XX 1X1 800
 NUMBER _____ OF POSITIONS (03-22)
 0=TAIL 3.2mm
 2=TAIL 2.5mm

Specifications

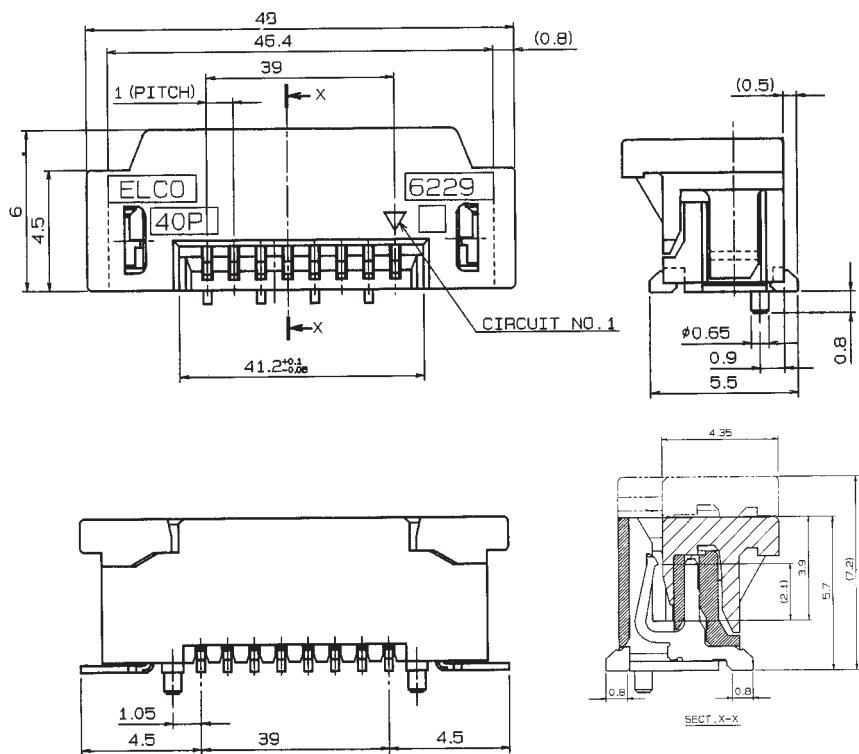
- Number of Positions – 3-22
- Tray Packaged
- Voltage – 50 V
- Current Rating – 0.5 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – 66 nylon, natural color (UL 94 V-O)
- FFC/FPC Thickness – $0.3 \pm 0.05\text{mm}$ ($0.012 \pm 0.002"$)
- PCB Thickness – 1.60mm (0.063")
- Profile Height – 3.00mm right angle (0.118")
4.80mm straight (0.189")

A = 1.00 (N-1)
 B = 1.00N + 1.06
 C = 1.00N + 3.0

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #290. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 1.00mm Pitch

Series 6229 ZIF Straight SMT



ORDERING CODE

00 6229 040 00X 800

NUMBER OF POSITIONS (40 position only)

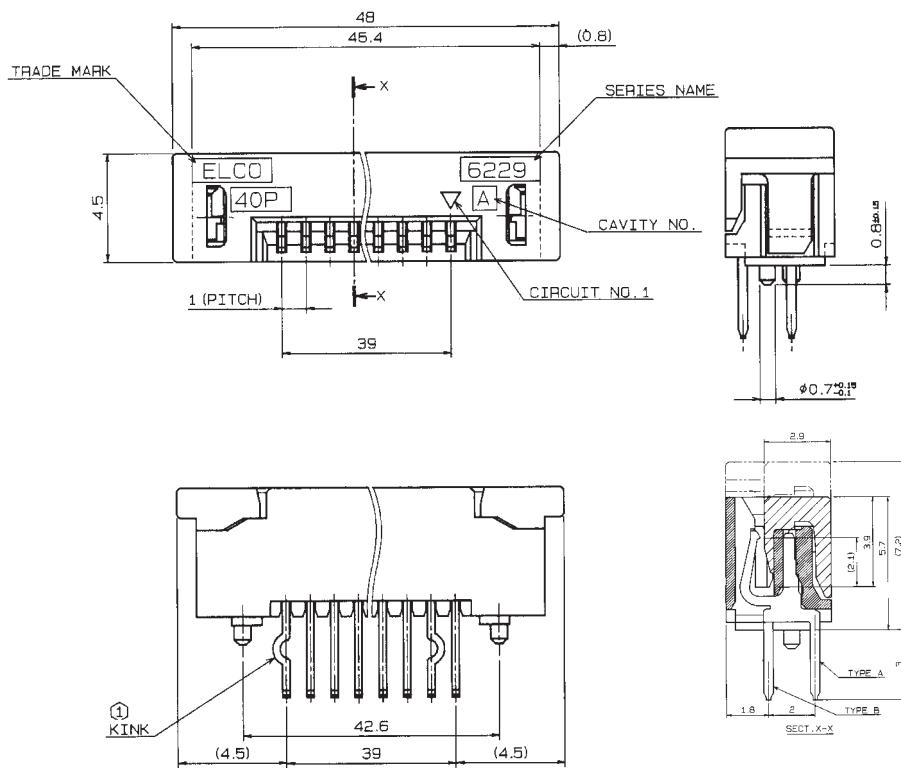
VARIATION CODE
1:WITHOUT BOSS
2:WITH BOSS

TRAY PACKAGE (70 per tray)

Specifications

- Number of Positions – 40
- Tray Packaged
- Voltage – 50 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Slider Material – PPS, natural color (UL 94 V-O)
- Insulator Material – PPS, black color (UL 94 V-O)
- FFC/FPC Thickness – $0.3 \pm 0.05\text{mm}$ ($0.012 \pm 0.002"$)
- Profile Height – 5.7mm (0.224")

Series 6229 ZIF Straight Through-Hole



ORDERING CODE

00 6229 640 003 800

NUMBER OF POSITIONS (40 position only)

TRAY PACKAGE (70 per tray)

Specifications

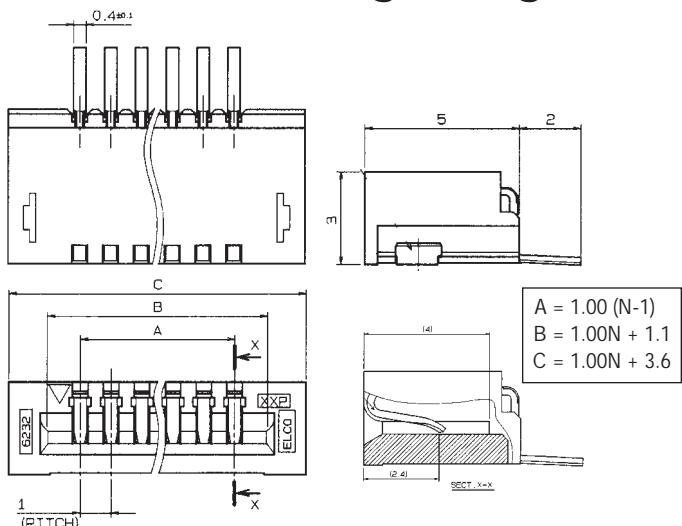
- Number of Positions – 40
- Tray Packaged
- Voltage – 50 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Slider Material – PPS, natural color (UL 94 V-O)
- Insulator Material – PPS, black color (UL 94 V-O)
- FFC/FPC Thickness – $0.3 \pm 0.05\text{mm}$ ($0.012 \pm 0.002"$)
- Profile Height – 5.7mm (0.224")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #291. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 1.00mm Pitch



Series 6232 LIF Right Angle SMT (Top Contact)



ORDERING CODE

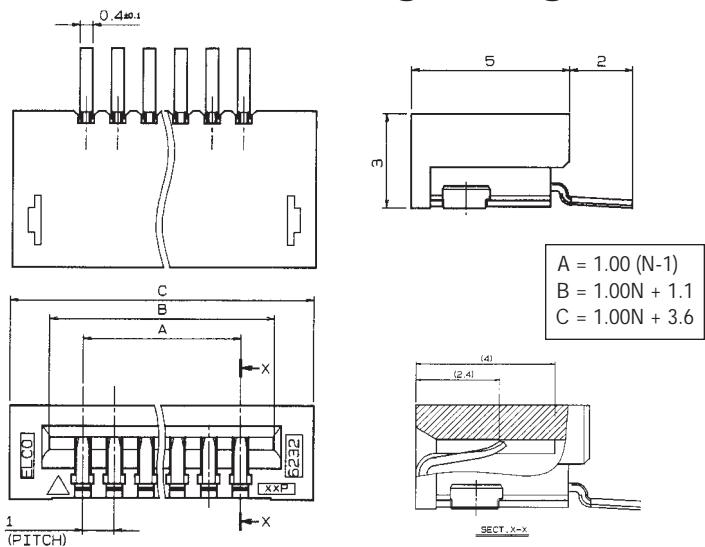
XX 6232 1XX 103 800

NUMBER OF POSITIONS (03-30)
00:TRAY PACKAGE
04:TAPE AND REEL

Specifications

- Number of Positions – 3-30
- Tray Packaged or SMT Tape and Reel
- Voltage – 50 V
- Current Rating – 0.50 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +70°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass filled PPS or Nylon
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 3.0mm

Series 6232 LIF Right Angle SMT (Bottom Contact)



ORDERING CODE

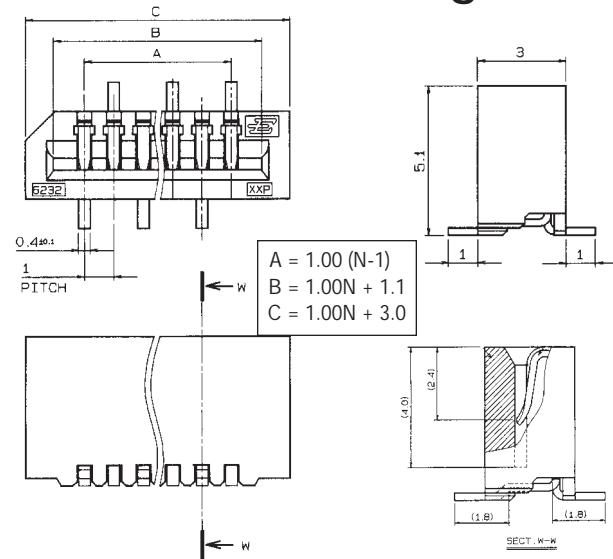
XX 6232 1XX 102 800

NUMBER OF POSITIONS (03-30)
00:TRAY PACKAGE
04:TAPE AND REEL

Specifications

- Number of Positions – 3-30
- Tray Packaged or SMT Tape and Reel
- Voltage – 50 V
- Current Rating – 0.50 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +70°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass filled PPS or Nylon
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 3.0mm

Series 6232 LIF Straight SMT



ORDERING CODE

XX 6232 1XX 0XX 800

006:TRAY PACKAGE
015:TAPE AND REEL
NUMBER OF POSITIONS
(03-30)
00:TRAY PACKAGE
04:TAPE AND REEL

Specifications

- Number of Positions – 3-30
- Tray Packaged or SMT Tape and Reel
- Voltage – 50 V
- Current Rating – 0.50 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +70°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass filled PPS or Nylon
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 5.1mm (0.118 – 0.200") (see sketch)

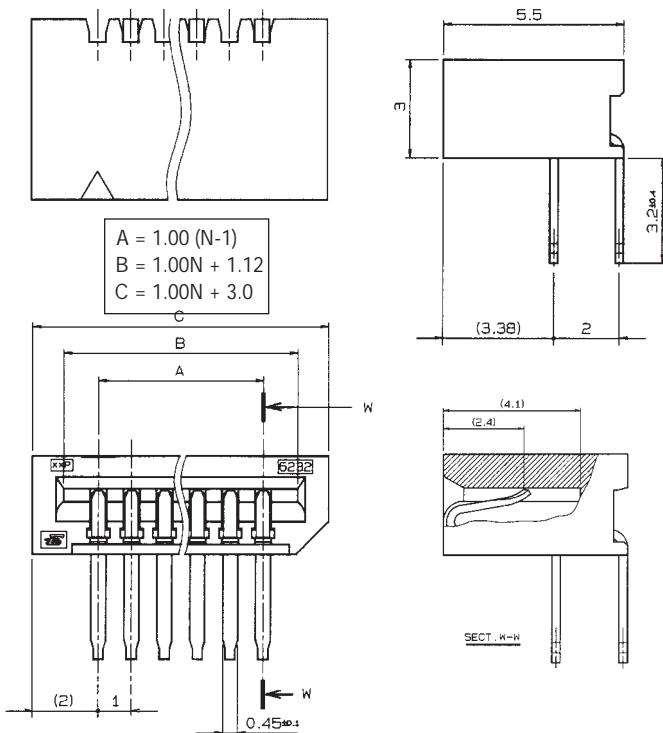
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #292. Visit our website <http://www.avxcorp.com>

ELCO

FFC/FPC Connectors 1.00mm Pitch



Series 6232 LIF Right Angle Through-Hole (Bottom Contact)



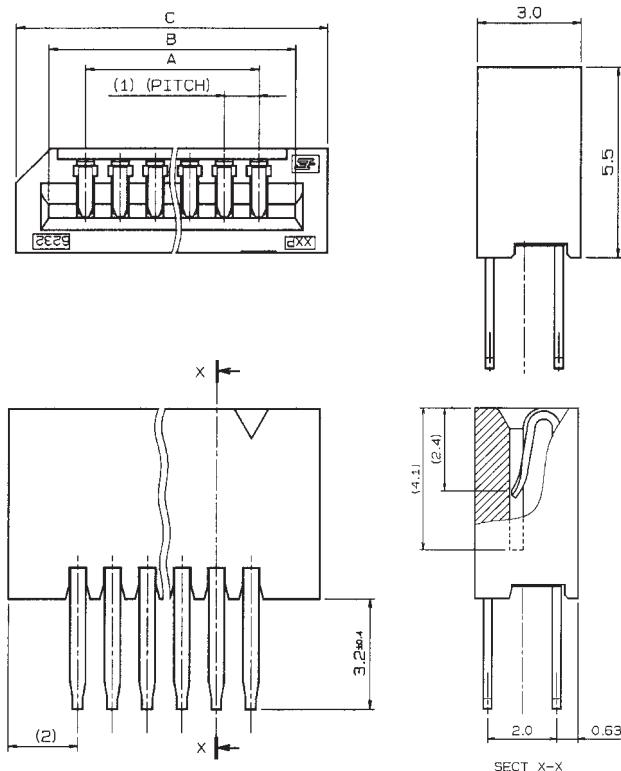
ORDERING CODE

00 6232 0XX 104 800
 └── TRAY └── NUMBER OF POSITIONS (03-30)
 PACKAGE

Specifications

- Number of Positions – 3-30
- Tray Packaged
- Voltage – 50 V
- Current Rating – 0.50 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +70°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass filled PPS or Nylon
- FFC/FPC Thickness – 0.3 ±0.05 mm (0.012 ±0.002")
- Profile Height – 3.0mm – (see sketch)

Series 6232 LIF Straight Through-Hole



A = 1.00 (N-1)
 B = 1.00N + 1.12
 C = 1.00N + 3.0

ORDERING CODE

00 6232 0XX XXX 800
 └── NUMBER └── VARIATION CODE
 OF POSITIONS (03-30) 006: WITH KINKED LEGS
 └── TRAY └── 007: WITHOUT KINKED LEGS
 PACKAGE

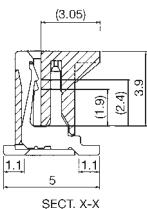
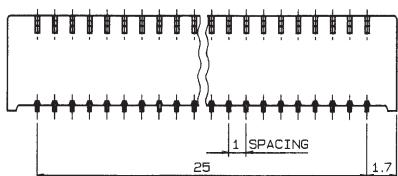
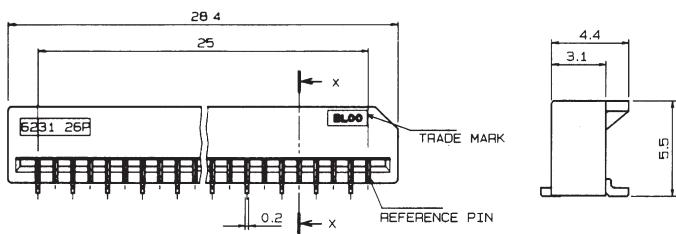
Specifications

- Number of Positions – 3-30
- Tray Packaged
- Voltage – 50 V
- Current Rating – 0.50 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +70°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass filled PPS or Nylon
- FFC/FPC Thickness – 0.3 ±0.05 mm (0.012 ±0.002")
- Profile Height – 5.5mm (0.217")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #293. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 1.00mm Pitch

Series 6231 LIF Straight SMT



ORDERING CODE

04 6231 026 000 800

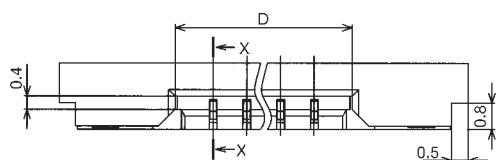
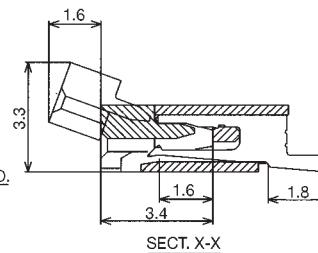
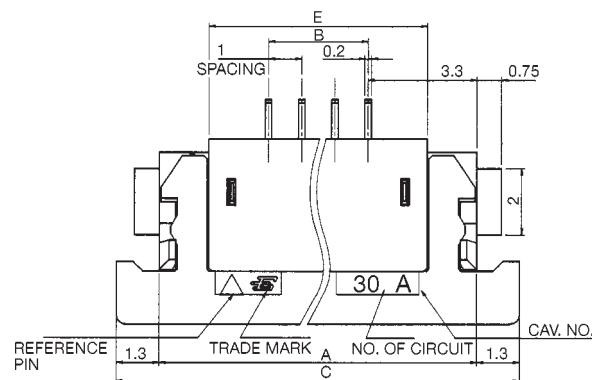
NUMBER OF POSITIONS
(26 position only)

TAPE AND REEL PACKAGE

Specifications

- Number of Positions – 26
- 1000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 1.0 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – glass-filled PPS (UL 94 V-O) natural color
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 5.5mm (0.217")

Series 6237 ZIF Right Angle SMT (Bottom Contact)



A = 35.6	C = 38.2	E = 32.6
B = 29.0	D = 31.2	

ORDERING CODE

04 6237 030 000 800

NUMBER OF POSITIONS
(30 position only)

TAPE AND REEL PACKAGE

Specifications

- Number of Positions – 30
- 1000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.4 amp max.
- Dielectric Withstanding Voltage – 200V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact & Metal Tab Material – phosphor bronze (tin-lead plated)
- Slider Material – PPS, natural color (UL 94 V-O)
- Insulator Material – PPS, natural color (UL 94 V-O)
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 2.00mm (0.079")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #294. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 0.80mm Pitch



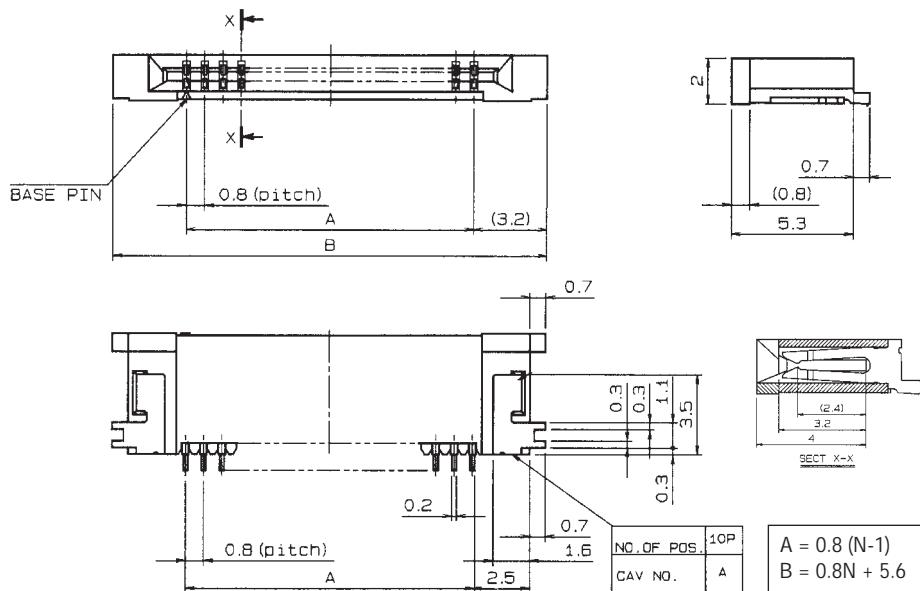
Series 6206 LIF Right Angle SMT (Dual Sided Contact)

ORDERING CODE

04 6206 0XX 000 800

NUMBER OF POSITIONS (04-20)

TAPE AND REEL



Specifications

- Number of Positions – 4-20
- 1000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.5 amp max.
- Dielectric Withstanding Voltage – 200V rms/min.
- Operating Temperature – (-25°C - +85°C)
- Contact & Metal Tab Material – phosphor bronze (tin-lead plated)
- Insulator Material – PPS, natural color (UL 94 V-O)
- FFC/FPC Thickness – $0.3 \pm 0.05\text{mm}$ ($0.012 \pm 0.002"$)
- Profile Height – 2.00mm (0.079")

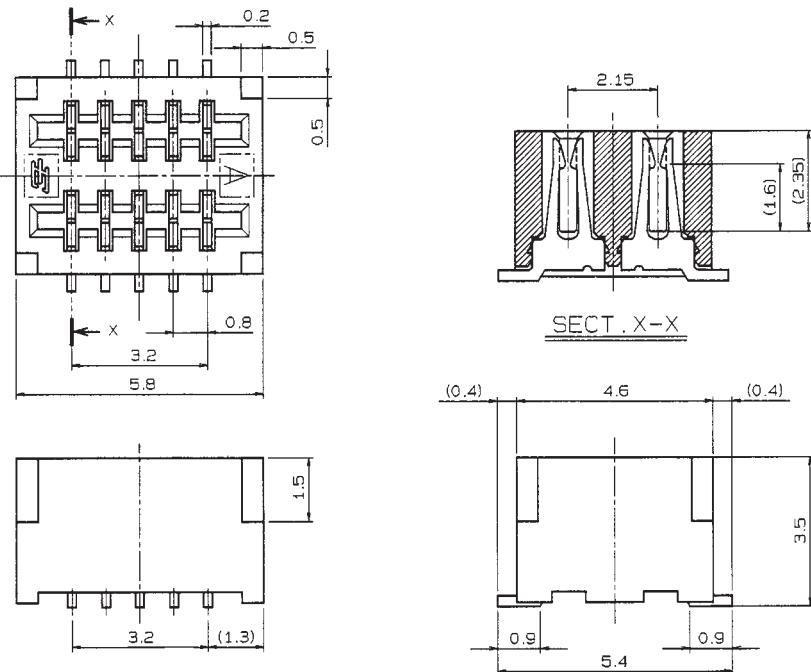
Series 6218 LIF Straight SMT (Dual Type)

ORDERING CODE

04 6218 010 000 800

NUMBER OF POSITIONS
(10 position only)

TAPE AND REEL



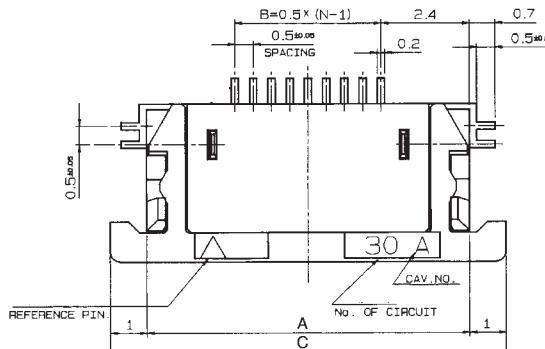
Specifications

- Number of Positions – 10
- 1500 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.5 amp max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – (-25°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – nylon 46, natural color (UL 94 V-O)
- FFC/FPC Thickness – $0.3 \pm 0.05\text{mm}$ ($0.012 \pm 0.002"$)
- Profile Height – 3.5mm (0.138")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #295. Visit our website <http://www.avxcorp.com>

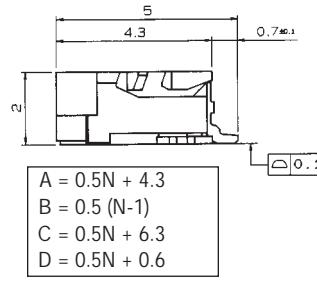
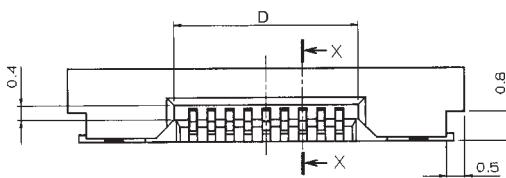
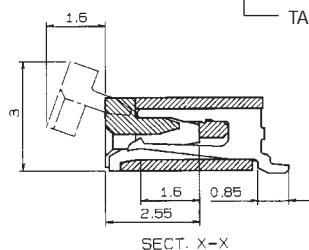
FFC/FPC Connectors 0.50mm Pitch

Series 6210 ZIF Right Angle SMT (Bottom Contact)



ORDERING CODE

08 6210 OXX XXX 800
 340 (Small metal tab/strain relief)
 - Preferred option
 010 (Large metal tab/strain relief)
 NUMBER OF POSITIONS (05-30,33,36,40)
 TAPE AND REEL



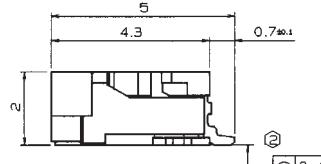
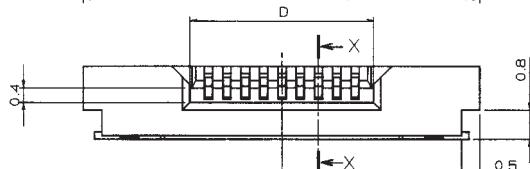
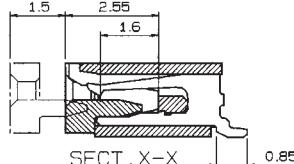
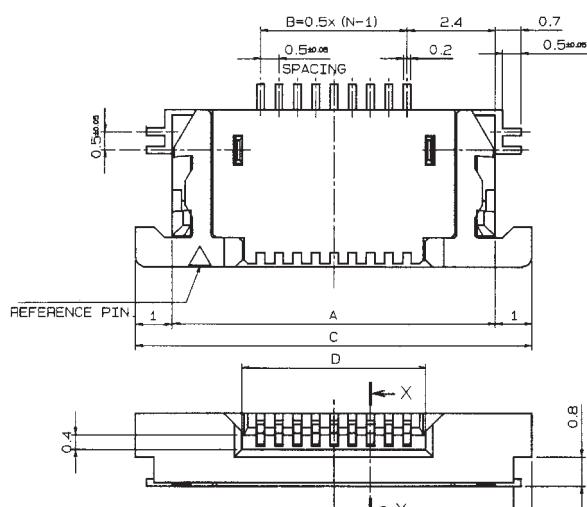
Specifications

- Number of Positions – 5-40
- 2000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.4 amp max.
- Dielectric Withstanding Voltage – 200V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – nylon 46, natural color
- Slider Material – PPS, natural color (UL 94 V-O)
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 2.00mm (0.079")

Series 6212 ZIF Right Angle SMT (Top Contact)

ORDERING CODE

08 6212 OXX XXX 800
 340 (Small metal tab/strain relief)
 - Preferred option
 010 (Large metal tab/strain relief)
 NUMBER OF POSITIONS (05-30,33,35,36,40)
 TAPE AND REEL



A = 0.5N + 4.3
 B = 0.5 (N-1)
 C = 0.5N + 6.3
 D = 0.5N + 0.6

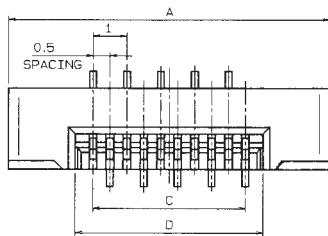
Specifications

- Number of Positions – 5-40
- 2000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.4 amp max.
- Dielectric Withstanding Voltage – 200V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – nylon 46, black color
- Slider Material – PPS, natural color (UL 94 V-O)
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 2.00mm (0.079")

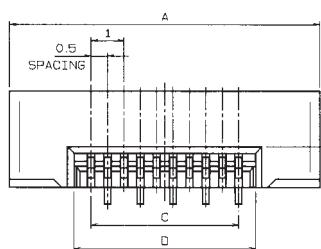
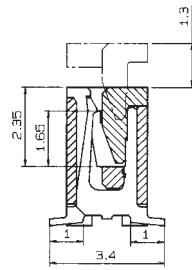
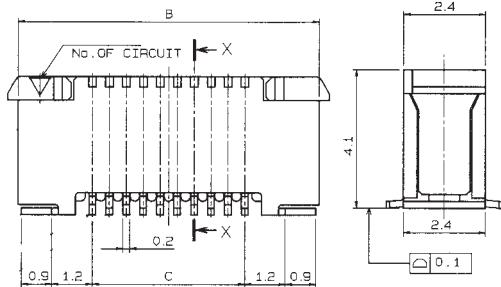
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
 Call 1-800-879-1613 and request document #296. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 0.50mm Pitch

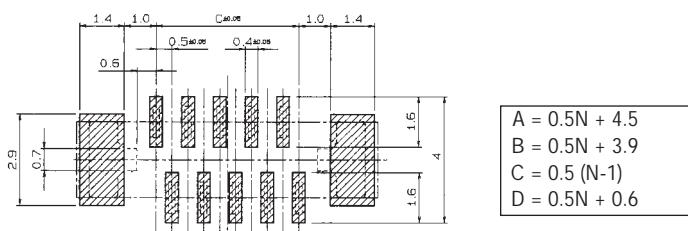
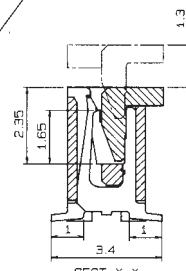
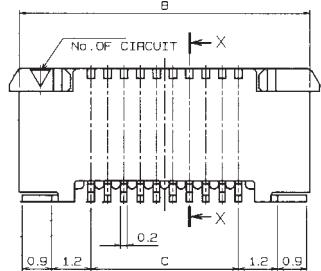
Series 6214 - ZIF Straight SMT



STANDARD SLIDER



EXTENDED SLIDER
(Enhances Vacuum Pick-up)



ORDERING CODE

04 6214 0XX XXX 800
 NUMBER OF POSITIONS (06-30) VARIATION CODE
 TAPE AND REEL 000: WITH STANDARD SLIDER
 010: WITH EXTENDED SLIDER

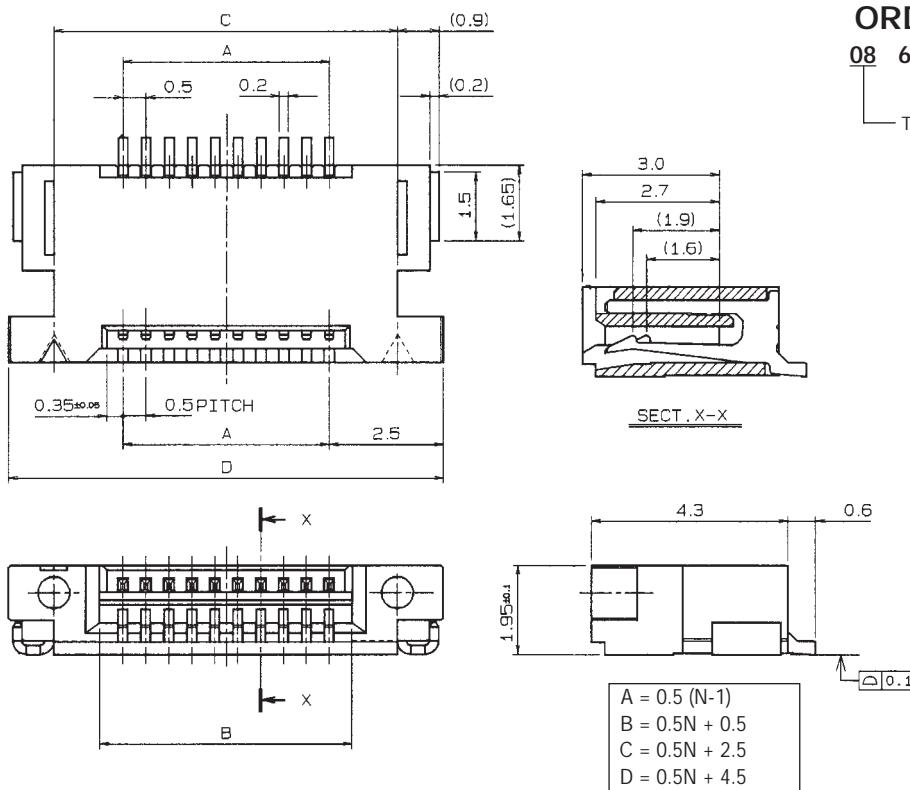
Specifications

- Number of Positions – 6-30
- 1000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.4 amp max.
- Dielectric Withstanding Voltage – 200V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – nylon 46, natural color (UL 94 V-O)
- Slider Material – PPS, natural color (UL 94 V-O)
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 4.1mm (0.161")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #297. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 0.50mm Pitch

Series 6222 LIF Right Angle SMT (Bottom Contact)



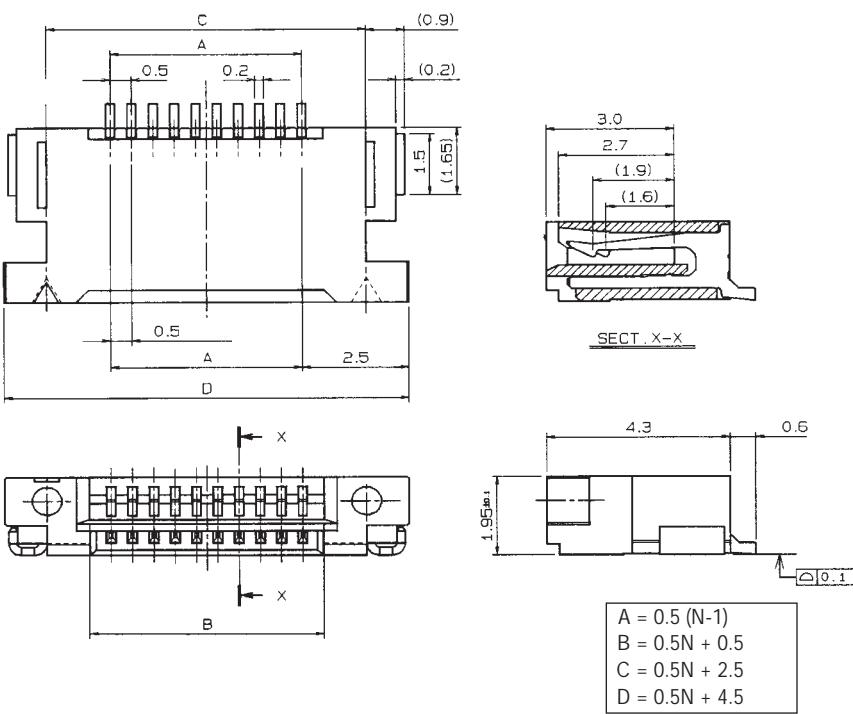
ORDERING CODE

08 6222 OXX 001 800
 └─ NUMBER OF POSITIONS (05-30)
 └─ TAPE AND REEL

Specifications

- Number of Positions – 5-30
- 2000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.4 amp max.
- Dielectric Withstanding Voltage – 200V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – PPS, natural color
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 1.95mm (0.077")

Series 6223 LIF Right Angle SMT (Top Contact)



ORDERING CODE

08 6223 OXX 001 800
 └─ NUMBER OF POSITIONS (05-30)
 └─ TAPE AND REEL

Specifications

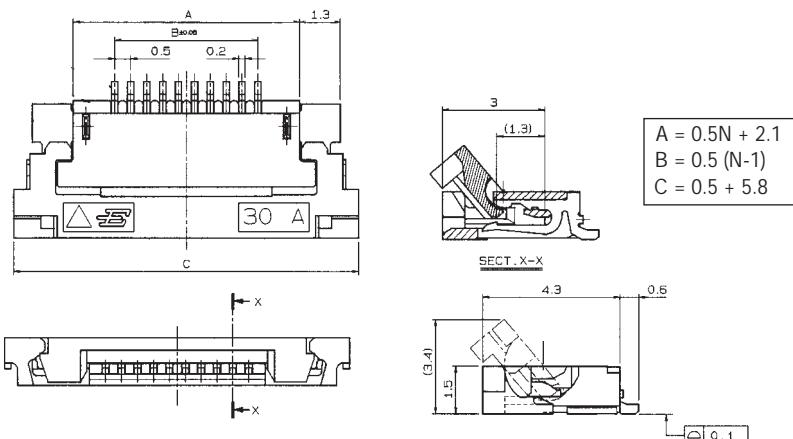
- Number of Positions – 5-30
- 2000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.4 amp max.
- Dielectric Withstanding Voltage – 200V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – PPS, black color
- FFC/FPC Thickness – 0.3 ±0.05mm (0.012 ±0.002")
- Profile Height – 1.95mm (0.077")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #298. Visit our website <http://www.avxcorp.com>

FFC/FPC Connectors 0.50mm Pitch



Series 6239 ZIF Right Angle SMT One-Touch Lock/ Flip-Top (Bottom Contact)



ORDERING CODE

04 6239 OXX 001 800

NUMBER OF POSITIONS (05-30)

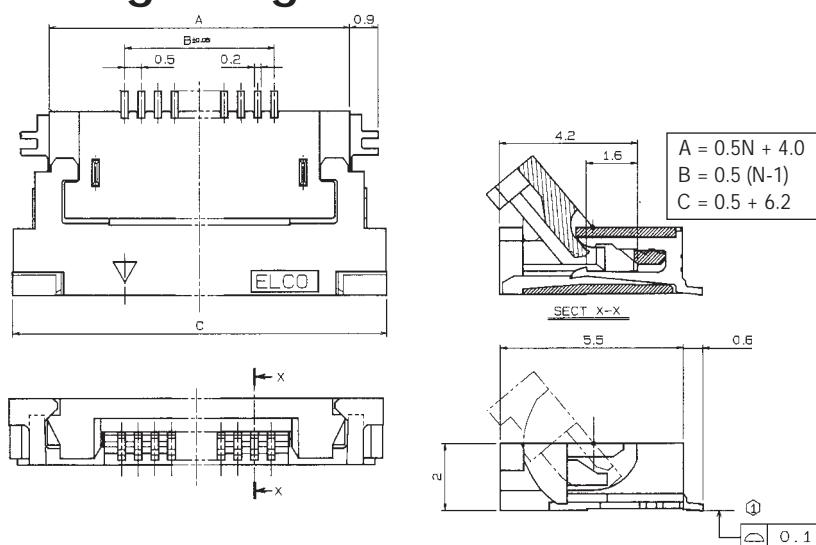
TAPE AND REEL

Specifications

- Number of Positions – 5-30
- 2000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.4 amp max.
- Dielectric Withstanding Voltage – 200V rms/min.
- Operating Temperature – (-20°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – nylon 46, natural color
- Slider Material – PPS, natural color
- FFC/FPC Thickness – 0.3 ± 0.05mm (0.012 ± 0.002")
- Profile Height – 1.50mm (0.059")

Series 6240

ZIF Right Angle SMT One-Touch Lock/Flip-Top (Bottom Contact)



ORDERING CODE

04 6240 OXX 003 800

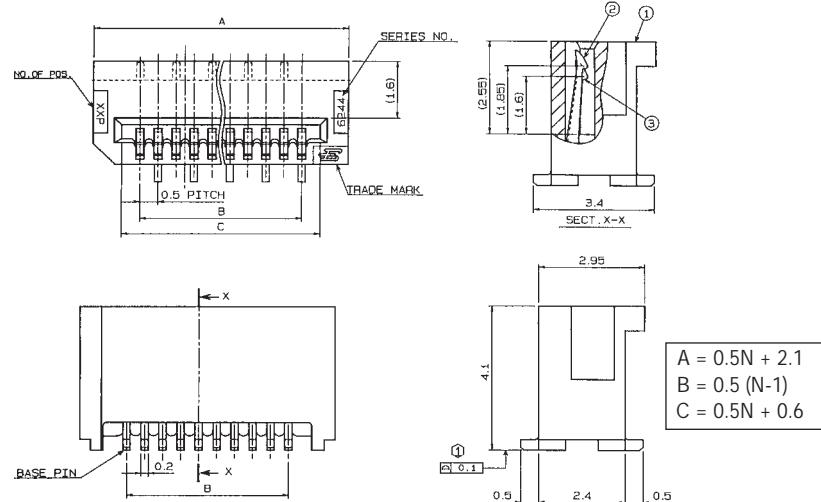
NUMBER OF POSITIONS (30-50)

TAPE AND REEL

Specifications

- Number of Positions – 30-50
- 2000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.4 amp max.
- Dielectric Withstanding Voltage – 200V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – PPS, natural color
- Slider Material – PPS, natural color
- FFC/FPC Thickness – 0.3 ± 0.05mm (0.012 ± 0.002")
- Profile Height – 2.00mm (0.077")

Series 6244 LIF Straight SMT



ORDERING CODE

04 6244 OXX 000 800

NUMBER OF POSITIONS
(12, 14, 20, 22)

TAPE AND REEL

Specifications

- Number of Positions – 12, 14, 20, 22
- 1000 Connectors per Tape & Reel
- Voltage – 50 V
- Current Rating – 0.4 amp max.
- Dielectric Withstanding Voltage – 200V rms/min.
- Operating Temperature – (-40°C - +85°C)
- Contact Material – phosphor bronze (tin-lead plated)
- Insulator Material – nylon 46, natural color (UL 94 V-O)
- FFC/FPC Thickness – 0.3 ± 0.05mm (0.012 ± 0.002")
- Profile Height – 4.1mm (0.161")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #299. Visit our website <http://www.avxcorp.com>

ELCO

IDC (Insulation Displacement Connectors) Overview



IDC for 1.27mm (0.050") Round Conductor Flat Cable

No. of Positions	Socket	Header Latched	Low Profile Header		Card Edge	2 Row Transition	4 Row Transition	DIL Plug	Male Plug	IDC DIN 41612	Plug & Harness
	Series 8290	Series 8289	Series 8380	Series 8383 SMT	Series 6338	Series 8399	Series 8292	Series 8291	Series 8293	Series 8459	Series 8005
2											●
4											
6				○							
8				●							
9											
10	●	●	●	●	●	●	●		●		
12											
14	●	●	●	●		●		●	●		
15											
16	●	●	●	●	●	●	●	●	●		
20	●	●	●	●	●	●	●		●		
24											
25											
26	●	●	●	●	●	●	●		●		
30											
32										●	
34	●	●	●	●	●	●	●		●		
36				●	●						
37											
40	●	●	●	●	●	●	●		●		
44	●				●						
50	●	●	●	●	●	●	●		●		
52											
56											
60	●	●	●	●	●	●	●		●		
64	●	●	●	●		●				●	
Accessories											
Strain Relief	●				●	●			●	●	
Coding Key	●			●	●						
Polarizing Key		●			●				●		
Latch / Eject	●	●							○		
Tooling											
Base Plate	●				●	●	●	●	●	●	
Hand Tool	●				●	●	●	●		○	
Bench Press	●				●	●	●	●	●	●	
Semi-Automatic	●				●	●					
Fully Automatic	●				○	○					
Options											
PCB Retention	○	○	○	○		○					

Available ● Consult Sales ○

IDC for 2.54mm (0.100") Round Conductor Flat Cable

No. of Positions	Socket	Header
	Series 8284	Series 8284
8	●	●
14	●	●
16	●	●
18	●	●
20	●	●
24	●	●

Compatibility & Approvals

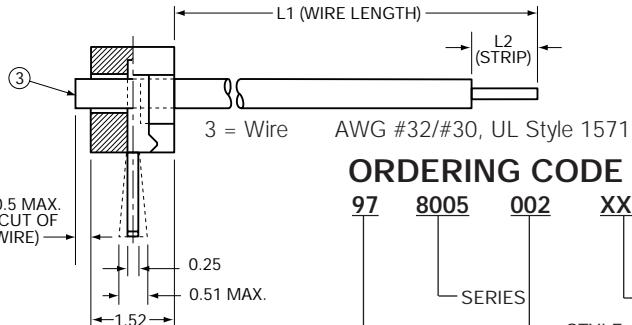
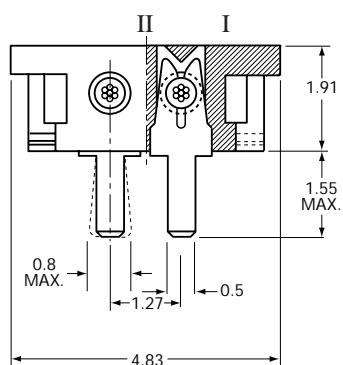
- UL
- CSA
- Intermateable and interchangeable with many other manufacturers
- Compatible with MIL-83503 product

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #300. Visit our website <http://www.avxcorp.com>

ELCO

2 Position Miniature IDC

Series 8005 Plug Harness (Wire to Board)



ORDERING CODE

97 8005 002 XXX
 PLUG HARNESS SERIES STYLE, NO. OF POSITIONS

867
 FINISH
 867 = 15 Micro-inches Au
 VARIATION
 Contact Sales Office to order Harness Assembly

Wire	Color	L1	L2	AWG
I				
II				

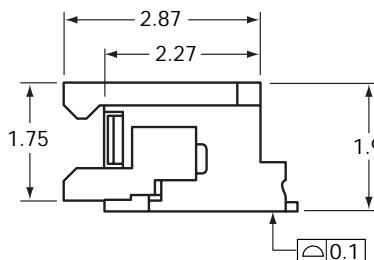
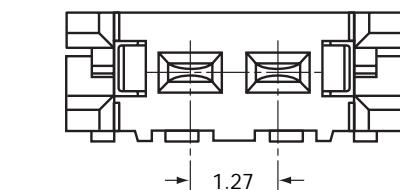
Specifications to be supplied by customer.
 32 AWG is the preferred option.
 Wire size must be same as I and II.

Specifications

- Number of Positions – 2
- Contact Spacing – 1.27 mm
- Current Rating – 1 amp. max.
- Voltage Rating – 30V max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – -55 to +85°C

Series 8005 Receptacle

Right Angle

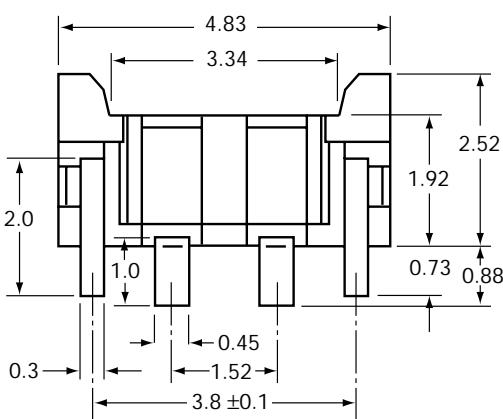


ORDERING CODE

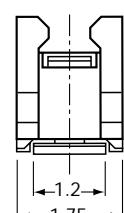
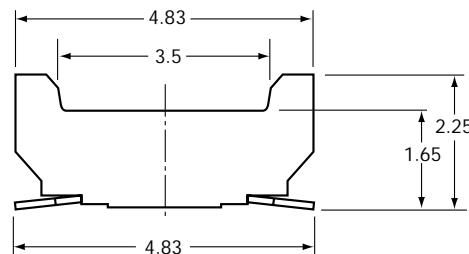
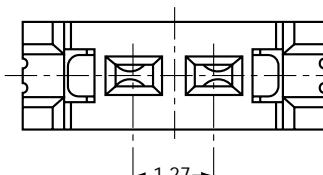
24 8005 X02 100 867
 TAPE AND REEL SERIES STYLE, NO. OF POSITIONS

FINISH
 867 = 15 Micro-inches Au
 VARIATION

002 = Vertical - 2 Position
 502 = Right Angle - 2 Position

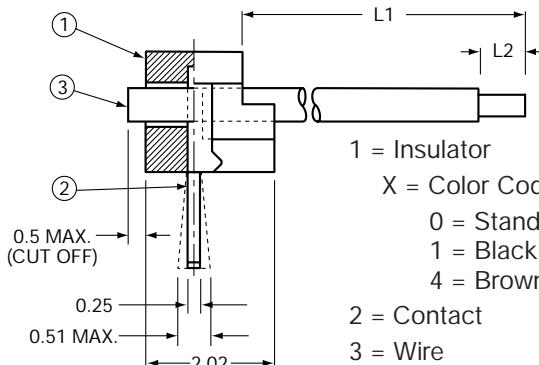
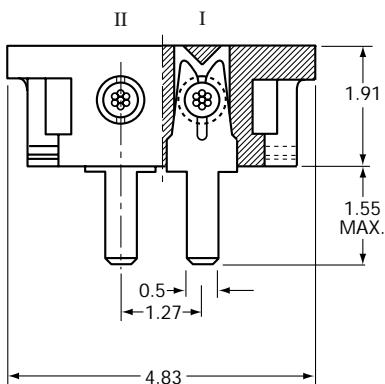


Vertical



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #301. Visit our website <http://www.avxcorp.com>

2 Position Miniature IDC Series 8015 Plug Harness with Polarization



1 = Insulator 61 8015 002 000 00X

X = Color Code (Option)

0 = Standard = Natural (White)

1 = Black

4 = Brown

2 = Contact 71 8015 999 000 894

3 = Wire AWG #30, UL Style 1571

ORDERING CODE

97	8015	002	XXX	894
PLUG HARNESS	SERIES	NO. OF POSITIONS	VARIATION	FINISH
			Contact Sales Office to order Harness Assembly	894 = Au Flash Over Ni

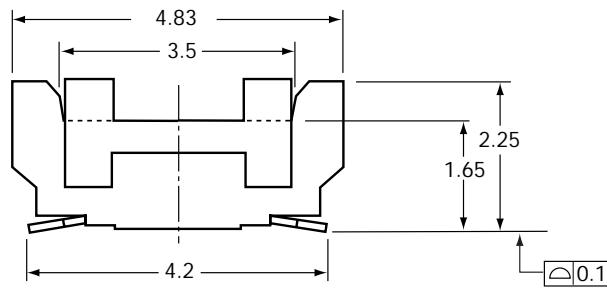
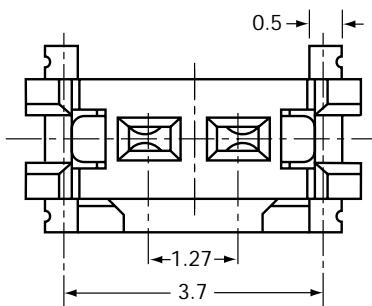
Specifications to be supplied by customer.
Wire size must be same as I and II.

Specifications

- Number of Positions – 2
- Contact Spacing – 1.27 mm
- Current Rating – 1 amp. max.
- Voltage Rating – 30V max.
- Dielectric Withstanding Voltage – 500V rms/min.
- Operating Temperature – -55 to +80°C

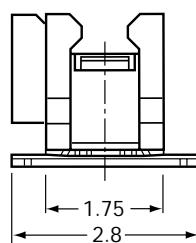
Series 8015 Receptacle

Vertical



ORDERING CODE

24	8015	002	X01	894
TAPE AND REEL	SERIES	NO. OF POSITIONS	VARIATION	FINISH
			001 = Color White 101 = Color Black 401 = Color Brown	894 = Au Flash over Ni

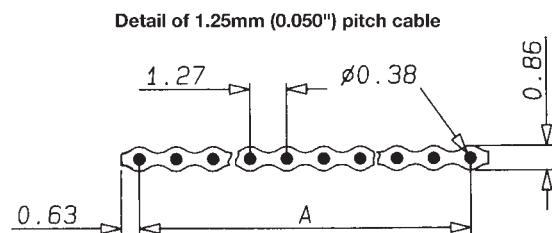


Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #302. Visit our website <http://www.avxcorp.com>

ELCO

IDC (Insulation Displacement Connectors)

Series 2026 - Ribbon Cable



Ordering Code for 2.54mm (0.100") Pitch Cable

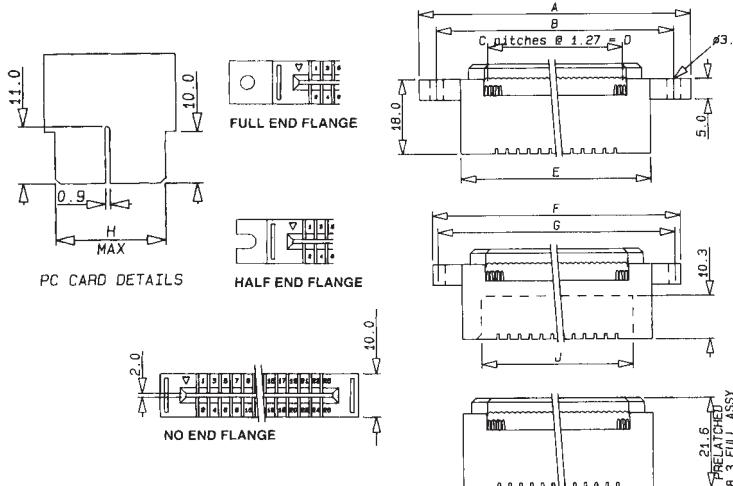
Reference Number	No. of Positions	Color
90-2026-7101-00-000	8 position	Grey
90-2026-7094-00-000	14 position	Grey
90-2026-7106-00-000	16 position	Grey
90-2026-7095-00-000	18 position	Grey
90-2026-7107-00-000	20 position	Grey
90-2026-7096-00-000	24 position	Grey

For use with Series 8284 only.

Ordering Code for 1.27mm (0.050") Pitch Cable

No. of Conductors	Color	Reference Number	Dim. A millimeters (inches)
9	Grey	90-2026-7049-01-000	10.16 (0.400)
9	Rainbow	90-2026-7048-01-000	10.16 (0.400)
10	Grey	90-2026-7021-01-000	11.43 (0.450)
10	Rainbow	90-2026-7020-01-000	11.43 (0.450)
14	Grey	90-2026-7017-01-000	16.51 (0.650)
14	Rainbow	90-2026-7016-01-000	16.51 (0.650)
15	Grey	90-2026-7051-01-000	17.78 (0.700)
15	Rainbow	90-2026-7050-01-000	17.78 (0.700)
16	Grey	90-2026-7015-01-000	19.05 (0.750)
16	Rainbow	90-2026-7014-01-000	19.05 (0.750)
20	Grey	90-2026-7013-01-000	24.13 (0.950)
20	Rainbow	90-2026-7012-01-000	24.13 (0.950)
25	Grey	90-2026-7053-01-000	30.48 (1.200)
25	Rainbow	90-2026-7052-01-000	30.48 (1.200)
26	Grey	90-2026-7011-01-000	31.75 (1.250)
26	Rainbow	90-2026-7010-01-000	31.75 (1.250)
34	Grey	90-2026-7009-01-000	41.91 (1.650)
34	Rainbow	90-2026-7008-01-000	41.91 (1.650)
37	Grey	90-2026-7055-01-000	45.72 (1.800)
37	Rainbow	90-2026-7054-01-000	45.72 (1.800)
40	Grey	90-2026-7007-01-000	49.53 (1.950)
40	Rainbow	90-2026-7006-01-000	49.53 (1.950)
50	Grey	90-2026-7005-01-000	62.23 (2.450)
50	Rainbow	90-2026-7004-01-000	62.23 (2.450)
60	Grey	90-2026-7003-01-000	74.93 (2.950)
60	Rainbow	90-2026-7002-01-000	74.93 (2.950)
64	Grey	90-2026-7001-01-000	80.01 (3.150)
64	Rainbow	90-2026-7000-01-000	80.01 (3.150)

Series 6338 - Card Edge Connector



ORDERING CODE

00 6338 OXX 000 0X X

- VARIATION INSULATOR END FLANGES
 - 0 = No end flanges
 - 1 = Half end flanges
 - 2 = Full end flanges
- PLATING
 - 02 = Selective Plating 30µ Gold
 - 04 = Selective Plating 10µ Gold
- STRAIN RELIEF
 - 000 = Without strain relief*
- NUMBER OF POSITIONS
- SERIES NUMBER
- CONNECTOR CODE PREFIX

*NB: For optional strain relief version,
please contact the local sales office.

Dimensions: millimeters (inches)

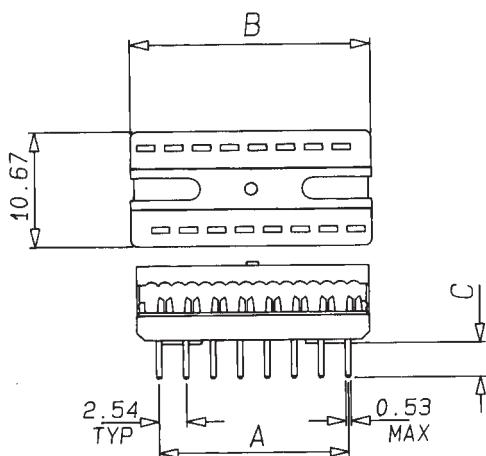
No. of Positions	A	B	C	D	E	F	G	H	J
010	43.69 (1.720)	35.56 (1.400)	9	11.43 (0.450)	24.36 (0.960)	38.10 (1.500)	33.02 (1.300)	15.11 (0.595)	15.34 (0.604)
016	51.31 (2.020)	43.18 (1.700)	15	19.05 (0.750)	31.98 (1.260)	45.72 (1.800)	40.64 (1.600)	22.73 (0.895)	22.96 (0.904)
020	56.39 (2.220)	48.26 (1.900)	19	24.13 (0.950)	37.06 (1.460)	50.80 (2.000)	45.72 (1.800)	27.81 (1.095)	28.04 (1.104)
026	64.01 (2.520)	55.88 (2.200)	25	31.75 (1.250)	44.68 (1.760)	58.42 (2.300)	53.34 (2.100)	35.43 (1.395)	35.66 (1.404)
034	74.17 (2.920)	66.04 (2.600)	33	41.91 (1.650)	54.84 (2.160)	68.58 (2.700)	63.50 (2.500)	45.59 (1.795)	45.82 (1.804)
040	81.79 (3.220)	73.66 (2.900)	39	49.53 (1.950)	62.46 (2.460)	76.20 (3.000)	71.12 (2.800)	53.21 (2.095)	53.44 (2.104)
044	86.87 (3.420)	78.74 (3.100)	43	54.61 (2.150)	67.54 (2.660)	81.28 (3.200)	76.20 (3.000)	58.29 (2.295)	58.52 (2.304)
050	94.49 (3.720)	86.36 (3.400)	49	62.23 (2.450)	75.16 (2.960)	88.90 (3.500)	83.82 (3.300)	65.91 (2.595)	66.14 (2.604)
060	107.19 (4.220)	99.06 (3.900)	59	74.93 (2.950)	87.86 (3.460)	101.60 (4.000)	96.52 (3.800)	78.61 (3.095)	78.84 (3.104)

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #303. Visit our website <http://www.avxcorp.com>

IDC (Insulation Displacement Connectors)



Series 8291 – Low Profile Dip Plug



ORDERING CODE

```

graph TD
    Root[CONNECTOR CODE PREFIX] --- C1[00]
    Root --- C2[8291]
    Root --- C3[0XX]
    Root --- C4[00X]
    Root --- C5[0XX]
    C3 --- C3_1[PLATING VARIATION]
    C3_1 --- C3_1_1[010 = Plating Gold]
    C3_1 --- C3_1_2[020 = Plating Tin]
    C4 --- C4_1[PCB THICKNESS]
    C4_1 --- C4_1_1[001 = Suitable for 1.6mm PCB]
    C4_1 --- C4_1_2[002 = Suitable for 3.2mm PCB]
    C5 --- C5_1[NUMBER OF POSITIONS]
    C5_1 --- C5_1_1[014 = 14 Way]
    C5_1 --- C5_1_2[016 = 16 Way]
    C3 --- C3_2[SERIES NUMBER]

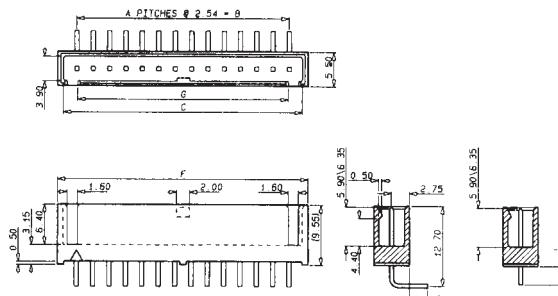
```

The diagram illustrates the structure of the Connector Code Prefix. It starts with a main label "CONNECTOR CODE PREFIX" at the top. Below it, five fields are listed horizontally: "00", "8291", "0XX", "00X", and "0XX". A bracket on the right side groups the last three fields ("0XX", "00X", and "0XX") under the heading "PLATING VARIATION". Another bracket groups "0XX" and "00X" under "PCB THICKNESS". A third bracket groups "0XX" and "00X" under "NUMBER OF POSITIONS". A bracket on the far left groups "00", "8291", and "0XX" under "SERIES NUMBER".

Dimensions: millimeters (inches)

No. of Positions	A	B	C
014	15.24 (0.600)	19.35 (0.762)	3.30 (0.130) or 4.06 (0.160)
016	17.78 (0.700)	21.89 (0.862)	3.30 (0.130) or 4.06 (0.160)

Series 8284 – Single Row Plug



ORDERING CODE

10 **8284** **0XX** **0XX** **0XX**

- PLATING VARIATION
 - 030 = Tin plating, 10 cycles
 - 040 = Gold plating, 50 cycles
- CONTACT VARIATION
 - 000 = 0.110" (2.8mm) Straight PC Tail
 - 001 = 0.146" (3.7mm) Straight PC Tail
 - 002 = 0.110" (2.8mm) R.A. PC Tail
 - 003 = 0.146" (3.7mm) R.A. PC Tail
 - 009 = 0.209" (5.3mm) Straight PC Tail
- NUMBER OF POSITIONS
 - 008 = 8 position
 - 014 = 14 position
 - 016 = 16 position
 - 018 = 18 position
 - 020 = 20 position
 - 024 = 24 position
- SERIES NUMBER

CONNECTOR CODE PREFIX
10 = Header Connector

Dimensions: millimeters (inches)

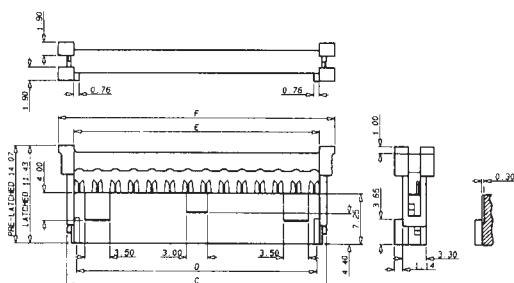
No. of Positions	A	B	C	D	E	F	G
8	7	17.78 (0.700)	21.30 (0.840)	18.54 (0.730)	19.30 (0.760)	23.70 (0.930)	17.54 (0.690)
14	13	33.02 (1.300)	36.54 (1.440)	33.78 (1.330)	34.54 (1.360)	38.94 (1.530)	32.78 (1.290)
16	15	38.10 (1.500)	42.22 (1.660)	38.86 (1.530)	39.62 (1.560)	44.02 (1.730)	37.86 (1.490)
18	17	43.18 (1.700)	46.70 (1.840)	43.94 (1.730)	44.70 (1.760)	49.10 (1.930)	42.94 (1.690)
20	19	48.26 (1.900)	52.38 (2.060)	49.02 (1.930)	49.78 (1.960)	54.18 (2.130)	48.02 (1.890)
24	23	58.42 (2.300)	61.94 (2.440)	59.18 (2.330)	59.94 (2.360)	64.34 (2.530)	58.18 (2.290)

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #304. Visit our website <http://www.avxcorp.com>

ELCO

IDC (Insulation Displacement Connectors)

Series 8284 – Single Row Receptacle



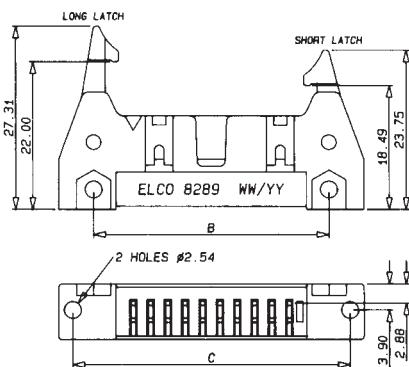
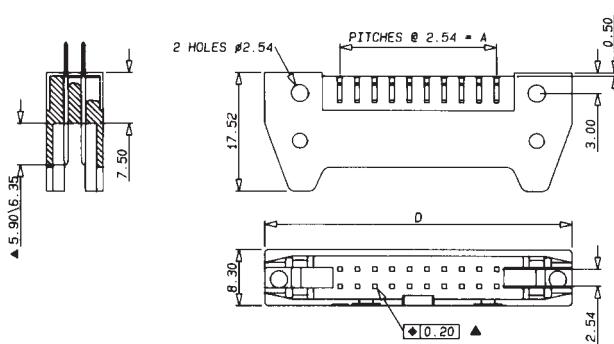
Dimensions: millimeters (inches)

No. of Positions	A	B	C	D	E	F
8	7	17.78 (0.700)	21.30 (0.840)	18.54 (0.720)	19.30 (0.760)	23.70 (0.930)
14	13	33.02 (1.180)	36.54 (1.450)	33.78 (1.330)	34.54 (1.360)	38.94 (1.530)
16	15	38.10 (1.500)	42.22 (1.660)	38.86 (1.530)	39.62 (1.560)	44.02 (1.730)
18	17	43.18 (1.700)	46.70 (1.840)	43.94 (1.730)	44.70 (1.760)	49.10 (1.930)
20	19	48.26 (1.900)	52.38 (2.060)	49.02 (1.930)	49.78 (1.960)	54.18 (2.130)
24	23	58.42 (2.300)	61.94 (2.440)	59.18 (2.330)	59.94 (2.360)	64.34 (2.530)

ORDERING CODE

20	8284	0XX	000	0XX	PLATING VARIATION 030 = Tin Plating, 10 cycles 040 = Gold Plating, 50 cycles
					CONTACT VARIATION 000 = Standard IDC contact 26/28 AWG
					NUMBER OF POSITIONS 008 = 8 position 014 = 14 position 016 = 16 position 018 = 18 position 020 = 20 position 024 = 24 position
					SERIES NUMBER CONNECTOR CODE PREFIX 20 = Socket Connector

Series 8289 – Ejector Style Header



ORDERING CODE

00	8289	0XX	0XX	X	X	X	POLARIZATION 1 = Type A BS9525 & BT224 Dual Height molding in polarizing key/keys 3 = No Polarizing key/keys - Standard
							PLATING 1 = Selective Plating 30μ Gold over Nickel 4 = Selective Plating 10μ Gold over Nickel
							LATCH/EJECT LEVER 0 = No Latch/Eject Lever 1 = Latch/Eject Lever for use with Series 8290 with strain relief 2 = Latch/Eject Lever for use with Series 8290 without strain relief
							CONTACT TERMINATION 002 = Straight PC Tail for 2.4mm PCB - 3.60mm (0.142") 004 = Right Angle PC Tail for 2.4mm PCB - 3.60mm (0.142") 006 = Straight PC Tail for 1.6mm PCB - 2.80mm (0.110") 007 = Right Angle PCB Tail for 1.6mm PCB - 2.80mm (0.110")
							NUMBER OF POSITIONS - 010 = 10 position 014 = 14 position 016 = 16 position 020 = 20 position 026 = 26 position 034 = 34 position 040 = 40 position 050 = 50 position 060 = 60 position 064 = 64 position
							SERIES NUMBER CONNECTOR CODE PREFIX 00 = Standard

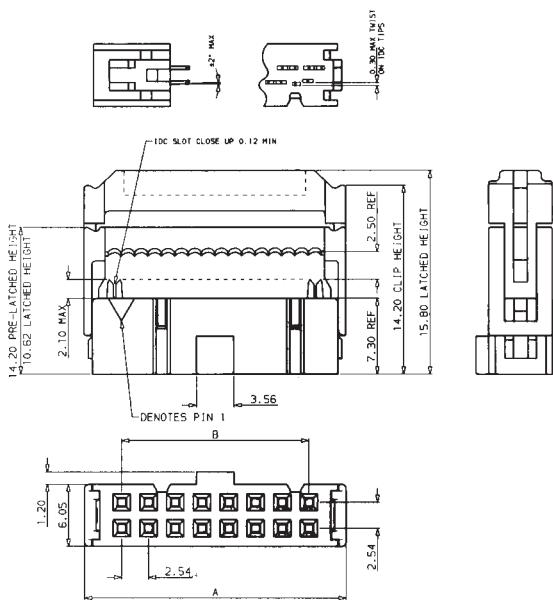
Dimensions: millimeters (inches)

No. of Positions	A	B	C	D
10	10.16 (0.040)	21.84 (0.860)	27.94 (1.100)	32.11 (1.260)
14	15.24 (0.060)	26.92 (1.060)	33.02 (1.300)	37.19 (1.460)
16	17.78 (0.070)	29.46 (1.160)	35.56 (1.400)	39.73 (1.560)
20	22.86 (0.090)	34.54 (1.360)	40.64 (1.600)	44.81 (1.760)
26	30.48 (1.200)	42.16 (1.660)	40.64 (1.900)	52.43 (2.060)
34	40.64 (1.600)	52.32 (2.060)	58.42 (2.300)	62.59 (2.460)
40	48.26 (1.900)	59.94 (2.360)	66.04 (2.600)	70.21 (2.760)
50	60.96 (2.400)	72.64 (2.860)	78.74 (3.100)	82.91 (3.260)
60	73.66 (2.900)	85.34 (3.360)	91.44 (3.600)	95.61 (3.760)
64	78.74 (3.100)	90.42 (3.560)	96.52 (3.800)	100.69 (3.960)

Additional information on this product is available from AVX's catalog or website. This product is available from AVX's distribution service. Call 1-800-879-1613 and request document #305. Visit our website at <http://www.avxcorp.com> and request document #305. Visit our website at <http://www.avxcorp.com> and request document #305. Visit our website at <http://www.avxcorp.com> and request document #305. Visit our website at <http://www.avxcorp.com> and request document #305.

IDC (Insulation Displacement Connectors)

Series 8290 – Low Profile Receptacle



ORDERING CODE

00	8290	0XX	00X	0X	X
SERIES NUMBER					
CONNECTOR CODE PREFIX					
NUMBER OF POSITIONS					
010 = 10 position	040 = 40 position				
014 = 14 position	044 = 44 position*				
016 = 16 position	050 = 50 position				
020 = 20 position	060 = 60 position				
026 = 26 position	064 = 64 position				
034 = 34 position					

POLARIZATION
1 = With central polarizing boss
2 = Without central polarizing boss

PLATING
01 = 30µ Gold over Nickel
04 = 10µ Gold over Nickel

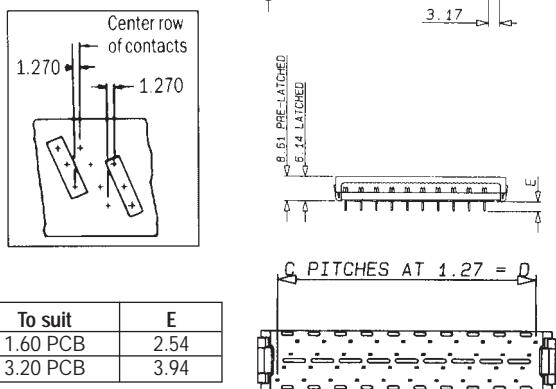
STRAIN RELIEF
000 = Without strain relief (feedthru) Standard
001 = With strain relief (feedthru) Standard
006 = With latching strain relief (feedthru)

*44 position connector is only available without strain relief - consult sales office for availability.

Dimensions: millimeters (inches)

No. of Positions	A	B	No. of Positions	A	B
10	17.22 (0.680)	10.16 (0.400)	40	55.32 (2.180)	48.26 (1.900)
14	22.30 (0.880)	15.24 (0.600)	44	60.40 (2.380)	53.34 (2.100)
16	24.84 (0.980)	17.78 (0.700)	50	68.02 (2.680)	60.69 (2.390)
20	29.92 (1.180)	22.86 (0.900)	60	80.72 (3.180)	73.66 (2.900)
26	37.54 (1.480)	30.48 (1.200)	64	85.80 (3.380)	78.74 (3.100)
34	47.70 (1.880)	40.64 (1.600)			

Series 8292 – Transition Connector



ORDERING CODE

00	8292	0XX	00X	010	
SERIES NUMBER					
CONNECTOR CODE PREFIX					
NUMBER OF POSITIONS					
010 = 10 position	016 = 16 position	020 = 20 position	026 = 26 position	034 = 34 position	
040 = 40 position	050 = 50 position	060 = 60 position			

PLATING
010 = Tin alloy

PCB THICKNESS
001 = Suitable for 1.6mm PCB
002 = Suitable for 3.2mm PCB

NUMBER OF POSITIONS
010 = 10 position
016 = 16 position
020 = 20 position
026 = 26 position
034 = 34 position
040 = 40 position
050 = 50 position
060 = 60 position

Dimensions: millimeters (inches)

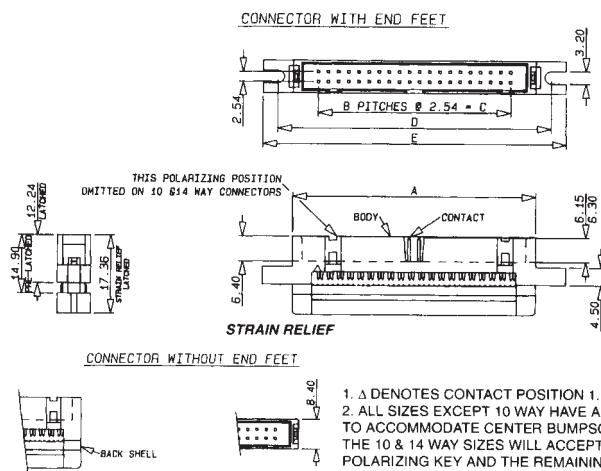
No. of Positions	A	B	C	D
10	17.78 (0.700)	19.08 (0.750)	9	11.43 (0.450)
16	25.40 (1.000)	26.70 (1.050)	15	19.05 (0.750)
20	30.48 (1.200)	31.78 (1.250)	19	24.13 (0.950)
26	38.10 (1.500)	39.40 (1.550)	25	31.75 (1.250)
34	48.26 (1.900)	49.56 (1.950)	33	41.91 (1.650)
40	55.88 (2.200)	57.18 (2.250)	39	49.53 (1.950)
50	68.58 (2.700)	69.88 (2.750)	49	62.23 (2.450)
60	81.28 (3.200)	82.58 (3.250)	59	74.94 (2.950)

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #306. Visit our website <http://www.avxcorp.com>

ELCO

IDC (Insulation Displacement Connectors)

Series 8293 – Male Plug Connector



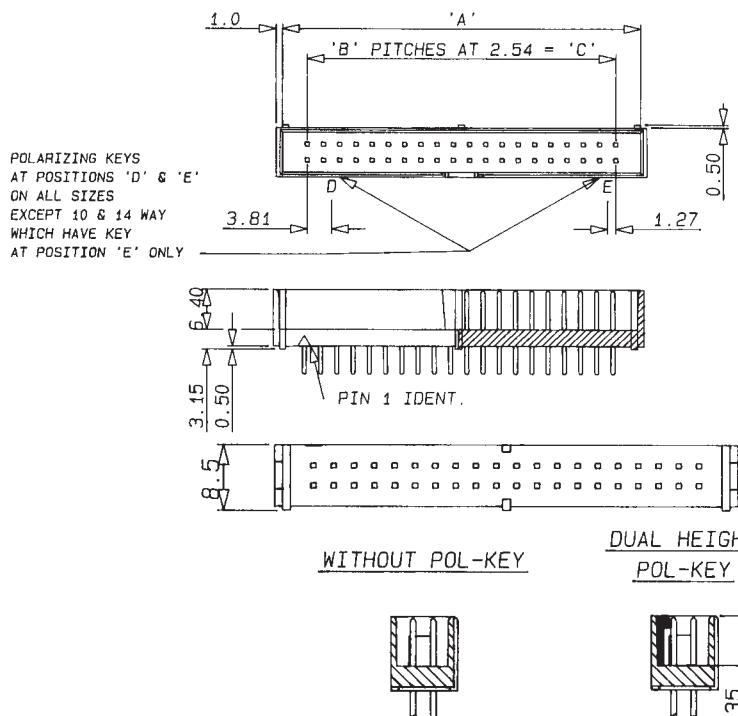
Dimensions: millimeters (inches)

No. of Positions	A	B	C	D	E
10	22.89 (0.901)	4	10.16 (0.400)	30.48 (1.200)	38.10 (1.500)
14	27.97 (1.101)	6	15.24 (0.600)	35.56 (1.400)	43.18 (1.700)
16	30.51 (1.201)	7	17.78 (0.700)	38.10 (1.500)	45.72 (1.800)
20	35.59 (1.401)	9	22.86 (0.900)	43.18 (1.700)	50.80 (2.000)
26	43.21 (1.701)	12	30.48 (1.200)	50.80 (2.000)	56.59 (2.228)

ORDERING CODE

XX	8293	0XX	00X	0X	X
					POLARIZATION
					0 = No Polarizing 2 = Dual Height Type A
					PLATING VARIATION
					01 = Standard 30μ Gold over Nickel 03 = 10μ Gold over Nickel
					ASSEMBLY VARIATION
					000 = Connector without strain relief 001 = Connector with strain relief
					NUMBER OF POSITIONS
					010 = 10 position 034 = 34 position 014 = 14 position 040 = 40 position 016 = 16 position 050 = 50 position 020 = 20 position 060 = 60 position 026 = 26 position 064 = 64 position

Series 8380 – Low Profile Box Receptacle



Dimensions: millimeters (inches)

No. of Positions	A	B	C	No. of Positions	A	B	C
10	17.90 (0.705)	4	10.16 (0.400)	34	48.38 (1.905)	16	40.64 (1.600)
14	22.98 (0.905)	6	15.24 (0.600)	40	56.00 (2.205)	19	48.26 (1.900)
16	25.52 (1.000)	7	17.78 (0.700)	50	68.70 (2.705)	24	60.96 (2.400)
20	30.60 (1.200)	9	22.86 (0.900)	60	81.40 (3.205)	29	73.66 (2.900)
26	38.22 (1.500)	12	30.48 (1.200)	64	86.48 (3.405)	31	78.74 (3.100)

ORDERING CODE

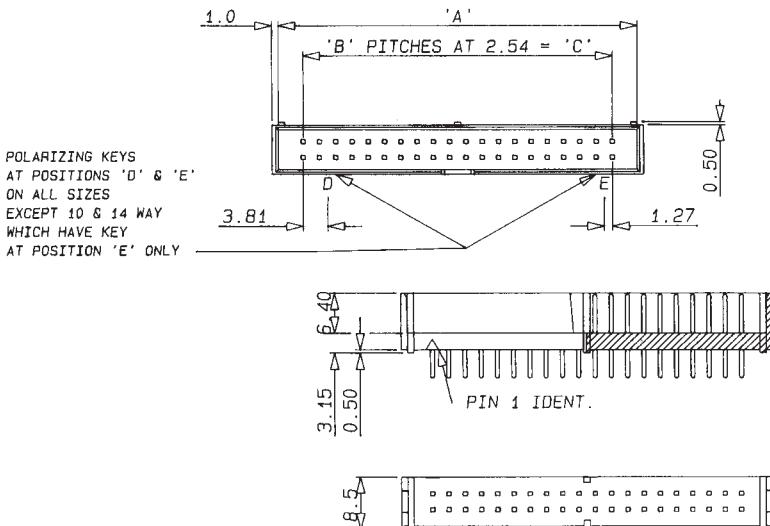
00	8380	0XX	00X	0X	X
					POLARIZATION
					0 = No Polarizing Keys Standard 2 = Type B - Dual Height molded in polarizing key(s)
					PLATING VARIATION
					01 = 30μ Gold Nickel Solder 04 = 10μ Gold over Nickel
					CONTACT VARIATION
					000 = Solder Tail Straight Contact for 1.6mm PCB - Contact Length (2.8) 001 = Solder Tail Straight Contact for 2.4mm PCB - Contact Length (3.6) 002 = Solder Tail Right Angle Contact for 1.6mm PCB - Contact Length (2.8) 003 = Solder Tail Right Angle Contact for 2.6mm PCB - Contact Length (3.6) 009 = Press-Fit Contact for 2.4/3.2 PCB - Contact Length (5.3)
					NB: Additional plating and tail lengths are available. Consult sales office for availability.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #307. Visit our website <http://www.avxcorp.com>

IDC (Insulation Displacement Connectors)



Series 8383 – Surface Mount Box Header



Dimensions: millimeters (inches)

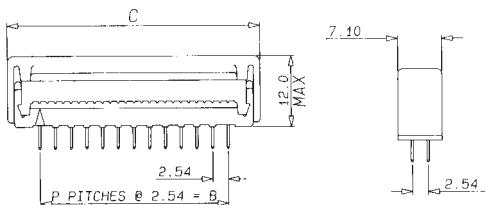
No. of Positions	A	B	C
10	17.90 (0.705)	4	10.16 (0.400)
14	22.98 (0.905)	6	15.24 (0.600)
16	25.52 (1.000)	7	17.78 (0.700)
20	30.60 (1.200)	9	22.86 (0.900)
26	38.22 (1.500)	12	30.48 (1.200)
34	48.38 (1.900)	16	40.64 (1.600)
40	56.00 (2.200)	19	48.26 (1.900)
50	68.70 (2.700)	24	60.96 (2.400)
60	81.40 (3.200)	29	73.66 (2.900)
64	86.48 (3.200)	31	78.74 (3.100)

ORDERING CODE

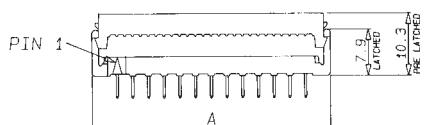
00	8383	0XX	00X	0	X 0
					POLARIZATION 0 = No Polarizing
					PLATING VARIATION 1 = 30µ Gold over Nickel 4 = 10µ Gold over Nickel
					CLIP VARIATION 0 = No Clip
					CONTACT VARIATION 000 = Solder PC Straight (1.60mm PCB) Length 2.90mm 001 = Solder PC Right Angle (2.40mm PCB) Length 3.70mm 002 = Solder PC Right Angle (1.6mm PCB) Length 2.90mm 003 = Solder PC Straight (2.40mm PCB) Length 3.70mm 009 = Press-Fit Contact for 2.4/3.2mm PCB or contact length 5.3mm

Series 8399 – Dual-in-Line Transition Connector

With Strain Relief



Without Strain Relief



ORDERING CODE

00	8399	0XX	0X	X	X 02
					PLATING 02 = Tin Lead
					CONTACT 2 = 3.6mm tail phosphor bronze 3 = 2.8mm tail phosphor bronze
					CABLE STOP 0 = Without cable stop Standard 1 = With cable stop Special
					STRAIN RELIEF 00 = Without strain relief 01 = With strain relief

Dimensions: millimeters (inches)

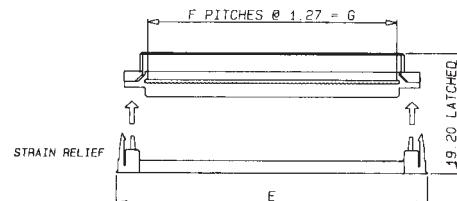
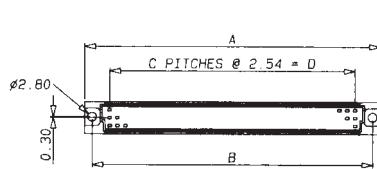
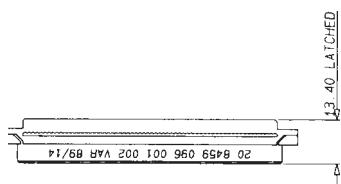
No. of Positions	A	B	P	C
010	18.45 (0.726)	10.16 (.400)	4	20.27 (0.798)
014	23.53 (0.926)	15.24 (.600)	6	25.65 (1.01)
016	26.07 (1.03)	17.78 (.700)	7	28.19 (1.11)
020	31.15 (1.23)	22.86 (.900)	9	33.27 (1.31)
026	38.77 (1.53)	30.48 (1.20)	12	40.89 (1.61)
034	48.93 (1.93)	40.64 (1.60)	16	51.05 (2.01)
040	56.55 (2.23)	48.26 (1.90)	19	58.67 (2.31)
050	69.25 (2.73)	60.96 (2.40)	24	71.37 (2.81)
060	81.95 (3.23)	73.66 (2.90)	39	84.07 (3.31)
064	87.03 (3.42)	78.74 (3.10)	31	89.15 (3.51)

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #308. Visit our website <http://www.avxcorp.com>

ELCO

IDC (Insulation Displacement Connectors)

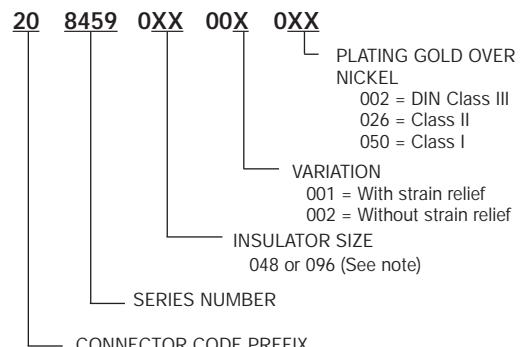
Series 8459 – IDC DIN Connector



Dimensions: millimeters (inches)

Insulator Size	A	B	C	D	E	F	G
048 position (3 x 16)	54.90 (2.16)	50.00 (1.97)	15	38.10 (1.50)	60.00 (2.36)	31	39.37 (1.55)
096 position (3 x 32)	94.90 (3.74)	90.00 (3.54)	31	78.74 (3.10)	100.00 (3.94)	63	80.01 (3.15)

ORDERING CODE



Note: 96 position insulator fitted with 2 rows of 32 positions, rows A and C.
48 position insulator fitted with 2 rows of 16 positions, rows A and C.

Customer Application Tooling

Toggle Press

Technical Data

Force output max.	12 kN (2600 lbs)
Stroke	45mm (1.8 in)
Working height adjustable	120-360mm (5-14 in)
Overhang	86mm (3.4 in)
Ram bore dia	10 H 7 x 28mm (1/2 x 1 in)
Ram dia	32mm (1 1/4 in)
Table bore dia	20 H 7mm (0.787 in)
Table dimension	185 x 115mm (7 x 4.5 in)
Breadth of T-slot	10 H 9mm (0.394 in)
Weight	30kg (66 lbs)

Non-metric dimensions are for U.S. versions only.

Pneumatic

Technical Data

Force output max.	15 kN (3300 lbs)
Stroke	Factory Set
Air consumption (per stroke)	0.12scf/in (3.0 litre/cm)
Working height adjustable	3.5-8 in (90-210mm)
Overhang	3.4 in (86mm)
Ram dia	1.57 in (40mm)
Ram bore dia with fixation screw M10	5/8 x 2 in (20 H 7 x 50mm)
Breadth of T-slot	0.394 in (10 H 9mm)
Table bore dia	0.787 in (20 H 7mm)
Table dimension	6 x 4 in (150 x 110mm)
Space requirement	6 x 10 in (155 x 260mm)
Air connection thread	R 1/4 in
Weight	45kg (100 lbs)

Non-metric dimensions are for U.S. versions only.

Ordering Code

Toggle Press Ordering Code	06 8290 7225 00 000
Platen Ordering Code	
Series 8290 socket	06 8290 7207 01 000
DIL transition connectors	06 8399 7009 00 000
Staggered transition connectors	06 8292 7010 00 000
Card edge connectors	06 6338 7116 00 000
DIL 14/16 connectors	06 8291 7009 00 000

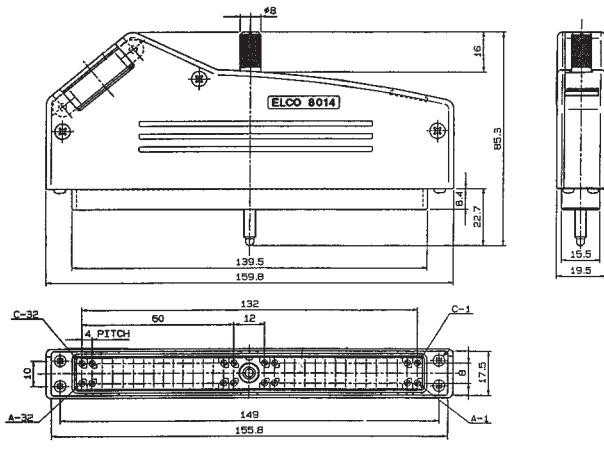
Ordering Code

Pneumatic Press Ordering Code	06 8290 7207 00 000
Platen Ordering Code	
Series 8290 socket	06 8290 7207 01 000
DIL transition connectors	06 8399 7009 00 000
Staggered transition connectors	06 8292 7010 00 000
Card edge connectors	06 6338 7116 00 000
DIL 14/16 connectors	06 8291 7009 00 000

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #309. Visit our website <http://www.avxcorp.com>

Rack and Panel Connectors - Varicon®

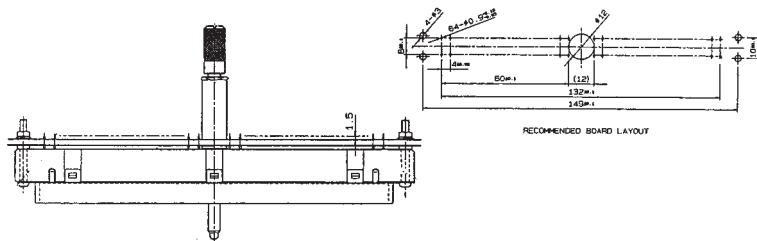
Series 8014 – 64 Contact Center-Screw Type Plug



ORDERING CODE

10 8014 264 X00 X00

- FINISH COLOR
 - 000 = without cover, center-screw, green insulator
 - 100 = with cover, center-screw, green insulator
- CONTACT
 - 000 = No contact loaded
 - 100 = Wire crimp contact (loose pieces attached)
 - 200 = Straight through hole
- NUMBER OF POSITIONS
 - 264 = 64
- SERIES
 - TAPE AND REEL
 - 10 = Plug

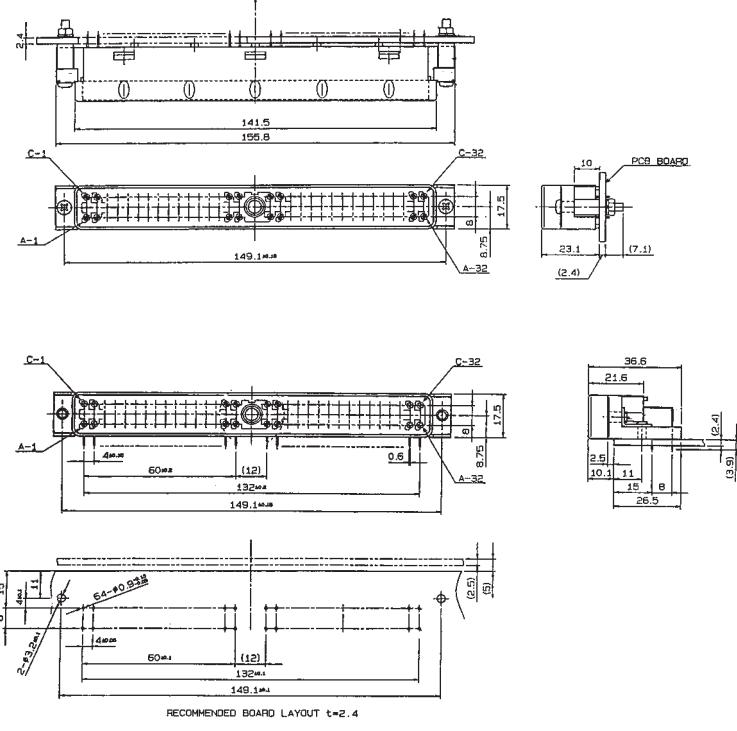


4.0mm Pitch

ORDERING CODE

20 8014 264 XXX X00

- FINISH COLOR
 - 000 = R/A through hole, center lock nut, green insulator
 - 100 = ST through hole, center lock nut, green insulator
- CONTACT
 - 000 = No contact loaded
 - 100 = Wire crimp contact (loose pieces attached)
 - 200 = Straight through hole
 - 999 = Right angle through hole
- NUMBER OF POSITIONS
 - 264 = 64
- SERIES
 - TAPE AND REEL
 - 20 = Receptacle



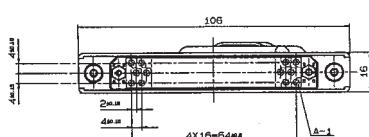
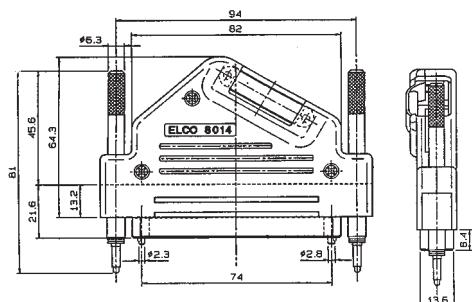
4.0mm Pitch

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #310. Visit our website <http://www.avxcorp.com>

ELCO

Rack and Panel Connectors - Varicon®

Series 8014 – 50 Contact Side-Screw Plug



ORDERING CODE

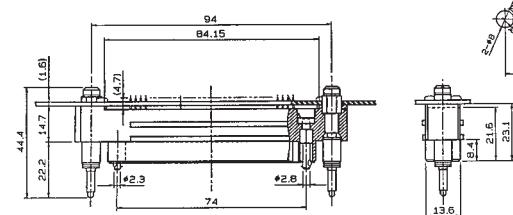
10 8014 350 X00 XXX

FINISH COLOR
028 = Side-screw,
gray insulator
128 = Side-screw,
gray insulator
with cover

ACT
No contact loaded
Wire crimp contact
(loose pieces attached)
Straight through hole

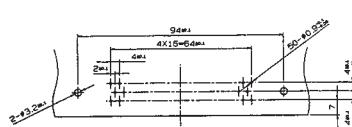
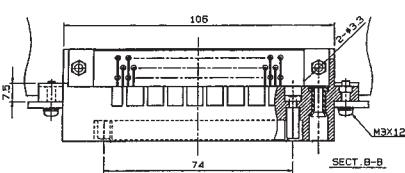
— NUMBER OF POSITIONS
350 = 50

— TAPE AND REEL
10 = Plug



4.0mm Pitch

Series 8014 – 50 Contact Side-Screw Receptacle



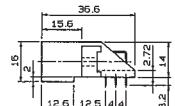
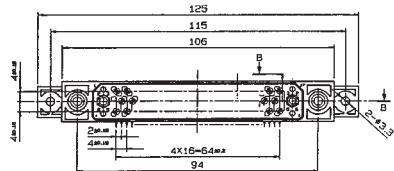
ORDERING CODE

20 8014 350 999 028

FINISH COLOR
028 = Side-screw,
gray insulator

guy insulator
CONTACT
999 = Right angle through hole
NUMBER OF POSITIONS

SERIES
— TAPE AND REEL



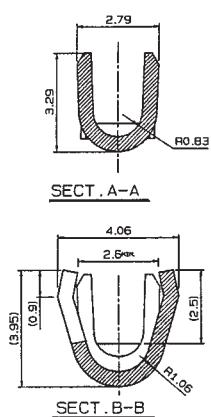
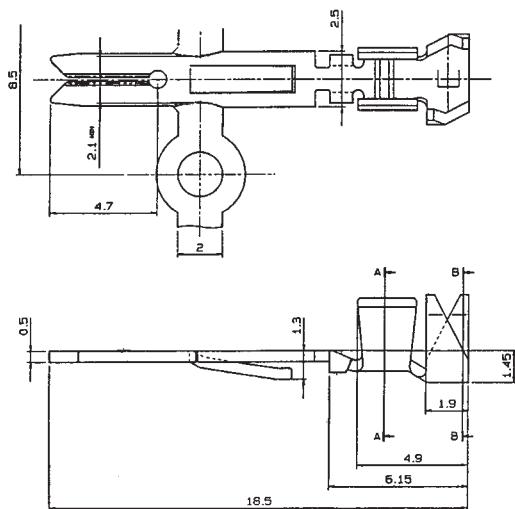
4.0mm Pitch



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #311. Visit our website <http://www.avxcorp.com>

ELCO

Rack and Panel Connectors - Varicon® Series 8014 – Crimp Contact



ORDERING CODE

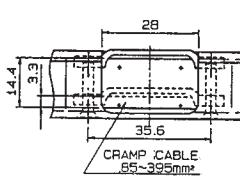
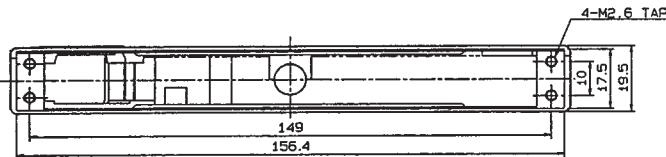
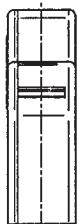
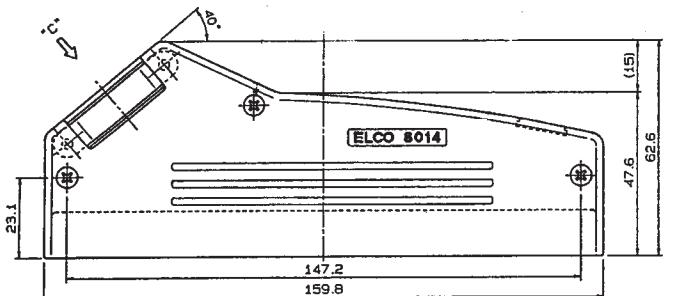
70 8014 000 000 858

-FINISH COLOR
858 = 10 microinches
gold over nickel
plate

Series 8014 – Cover 64 Contact Center-Screw Aluminum Die Cast

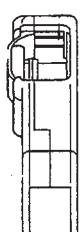
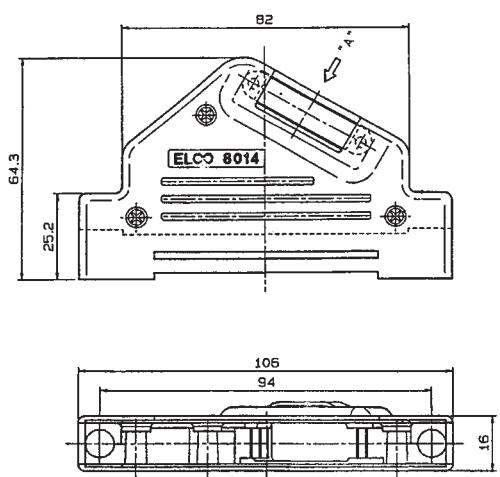
ORDERING CODE

30 8014 001 000 225



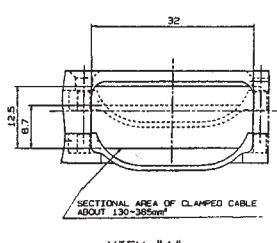
VIEW.C

Series 8014 – 50 Contact Side-Screw Plastic (gray) Cover



ORDERING CODE

30 8014 001 003 008



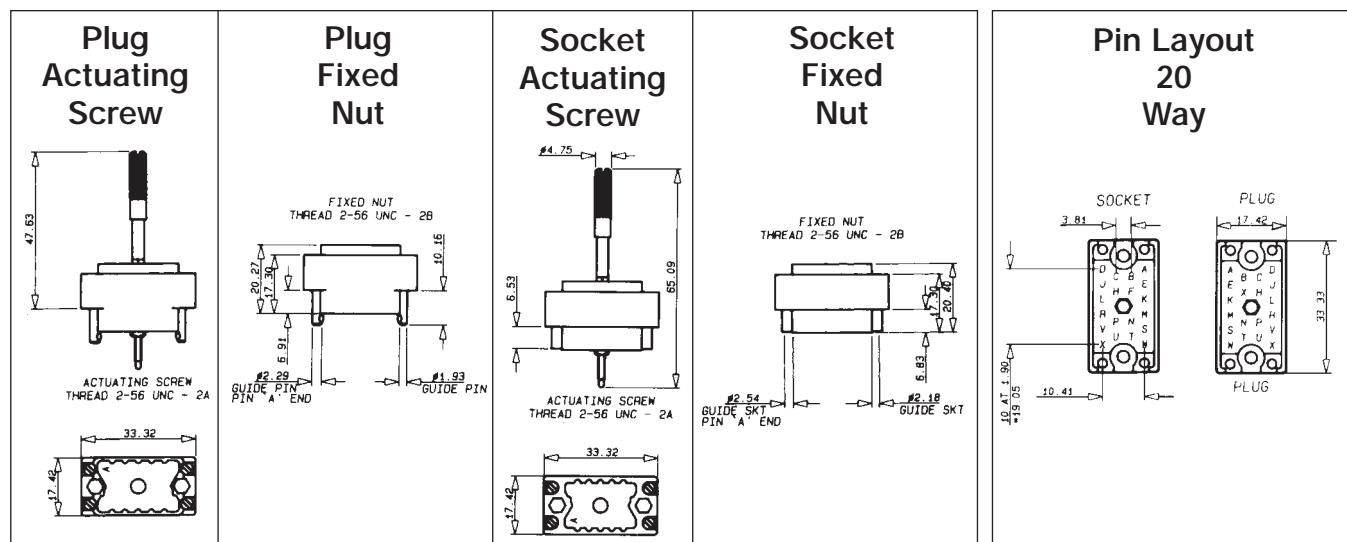
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #312. Visit our website <http://www.avxcorp.com>

ELCO

Rack and Panel Connectors - Varicon®



Series 8016 – Rectangular Connector – 20 Way



ORDERING CODE

00	8016	020	XXX	001
Prefix	Series Number	Number of Positions		See Variation Code

Contact Termination

*000 = Contacts not fitted and ordered separately,
see page 22 for full list of options



296 = Wire Wrap - 
0.025 x 0.026 x 0.579" / 0.64 x 1.27 x 19.3mm



*Grimm contacts always ordered separately.

^aCrimp contacts always ordered separately.

Connector Plug and Receptacle Combinations

Select variation code combinations marked with square in the table.

Variation Code

Insulator Body Type	European Version 		USA Versions 				Cover and Cable Entrance	Actu- ating Screw	Fixed Nut			
	Grey Polyester		Grey Polyester		Green Polyester							
	Aluminum Cover	No Cover	Cover	No Cover	Cover	No Cover						
Male (Exposed Contacts)	—	001	—	501	601	None	Yes	No				
	—	002	—	502	602	None	No	Yes				
	903	—	503		603	Top*	Yes	No				
	904	—	504		604	Side*	Yes	No				
	905	—	505		605	Top*	No	Yes				
	906	—	506		606	Side*	No	Yes				
Female (Recessed Contacts)	—	007	507	607	None	No	Yes					
	—	008	508	608	None	Yes	No					
	909	—	509	—	609	Top*	Yes	No				
	910	—	510	—	610	Side*	Yes	No				
	911	—	511	—	611	Top*	No	Yes				
	912	—	512	—	612	Side*	No	Yes				

*These covers should only be used with crimp contacts.

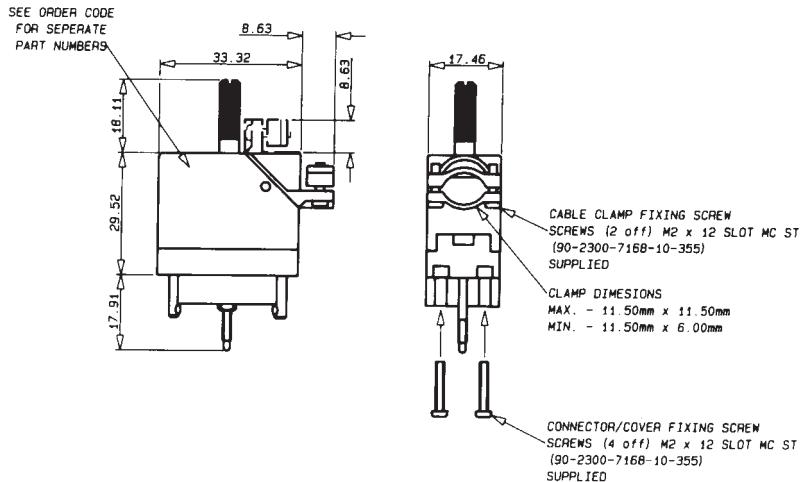
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #313. Visit our website <http://www.avxcorp.com>

Rack and Panel Connectors - Varicon®

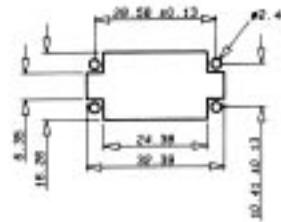


Series 8016 – Rectangular Connector – 20 Way

Clamping and Cover Dimensions

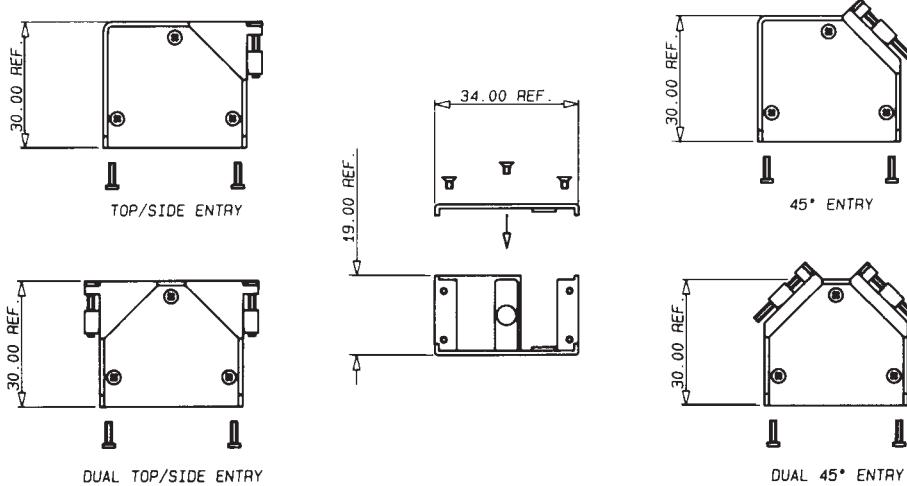


Recommended Layout for Front Chassis Mounting



Standard Covers

European Version	Cover Part Number	USA Version	Number of Positions	Cable Entrance	Clamp	
					Description	Size mm (inches)
30-8016-9829-20-000		30-8016-9829-00-0000	20	Side	Standard	11.53 (0.454) Dia.
30-8016-9831-20-000		30-8016-9831-00-0000	20	Top	Standard	11.53 (0.454) Dia.



Removable Side Plate Covers

millimeters (inches)

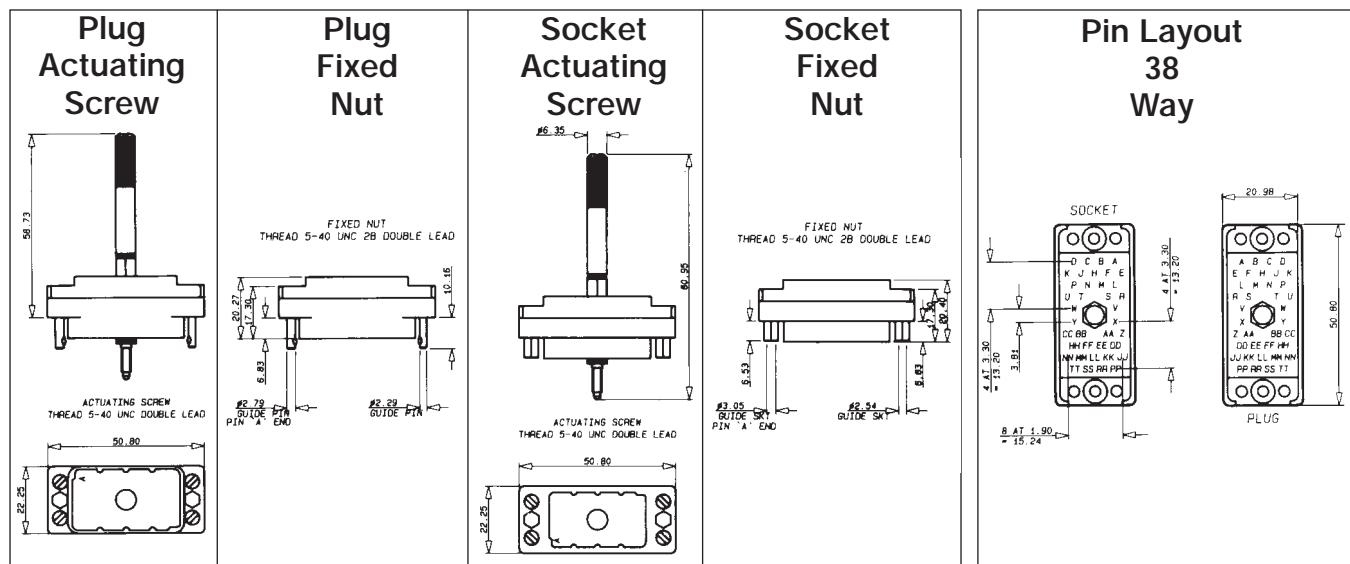
Cover Part Number	Number of Positions	Cable Entrance	Clamp		
			Description	Minimum Size	Maximum Size
30-8016-020-000-413	20	Side/Top	Standard	5 x 10 (0.197 x 0.394)	10 x 10 (0.394 x 0.394)
30-8016-020-000-415	20	45°	Standard	5 x 10 (0.197 x 0.394)	10 x 10 (0.394 x 0.394)
30-8016-020-000-423	20	Dual 90° Side/Top	Special	2 - 5 x 10 (0.197 x 0.394)	2 - 10 x 10 (0.394 x 0.394)
30-8016-020-000-425	20	Dual 45° Entry	Special	2 - 5 x 10 (0.197 x 0.394)	2 - 10 x 10 (0.394 x 0.394)

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #314. Visit our website <http://www.avxcorp.com>

Rack and Panel Connectors - Varicon®



Series 8016 – Rectangular Connector – 38 Way



ORDERING CODE

00 8016 038 XXX 001
 Prefix Series Number Number of Positions See Variation Code

Contact Termination	
*000 = Contacts not fitted and ordered separately, see page 22 for full list of options	
217 = Solder 0.098" x 2.49mm	
218 = Wire Wrap – 0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm	
296 = Wire Wrap – 0.025 x 0.026 x 0.579" / 0.64 x 1.27 x 19.3mm	
504 = Solder Tail –	
750 = Wire Wrap – 0.025 x 0.050 x 0.760" / 0.64 x 1.27 x 19.3mm	

*Crimp contacts always ordered separately.

Connector Plug and Receptacle Combinations

Plug	Receptacle	001/501/601	008/508/608	909/509/609	910/510/610	911/511/611	912/512/612	923/523/623	924/524/624	925/525/625	926/526/626	935/535/635	936/536/636	937/537/637	938/538/638
001/501/601															
002/502/602															
903/503/603															
904/504/604															
905/505/605															
906/506/606															
919/519/619															
920/520/620															
921/521/621															
922/522/622															
931/531/631															
932/532/632															
933/533/633															
934/534/634															

Select variation code combinations marked with square in the table.

Variation Code

Insulator Body Type	European Version			USA ONLY Versions						Cover & Cable Entrance	Actuating Screw	Fixed Nut				
	Grey Polyester			Grey Polyester			Green Polyester									
	Aluminum Cover		No Cover	Aluminum Cover		No Cover	Aluminum Cover		No Cover							
Male (Exposed Contacts)	Std. Clamp	Large Clamp	Ex-Large Clamp	001	Std. Clamp	Large Clamp	Ex-Large Clamp	501	Std. Clamp	Large Clamp	Ex-Large Clamp	601	None	Yes	No	
	—	—	—		—	—	—		—	—	—		None	No	Yes	
	903	919	931	002	503	519	531		603	619	631		Top	Yes	No	
	904	920	932		504	520	532		604	620	632		Side	Yes	No	
Female (Recessed Contacts)	905	921	933	007	505	521	533	507	605	621	633	607	Top	Yes	No	
	906	922	934		506	522	534		606	622	634		Side	No	Yes	
	—	—	—	008	—	—	—		—	—	—		None	No	Yes	
	909	923	935		509	523	535		609	623	635		Top	Yes	No	
	910	924	936	008	510	524	536		610	624	636		Side	Yes	No	
	911	925	937		511	525	537		611	625	637		Top	No	Yes	
	912	926	938		512	526	538		612	626	638		Side	No	Yes	

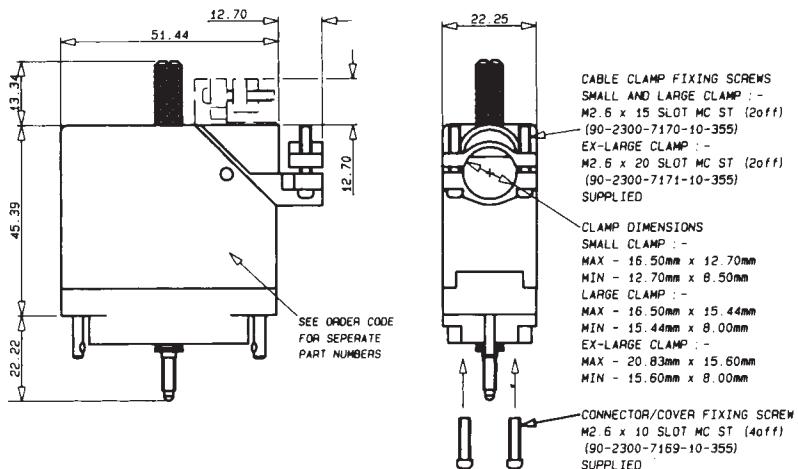
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #315. Visit our website <http://www.avxcorp.com>

Rack and Panel Connectors - Varicon®

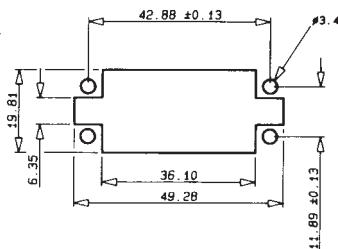


Series 8016 – Rectangular Connector – 38 Way

Clamping and Cover Dimensions



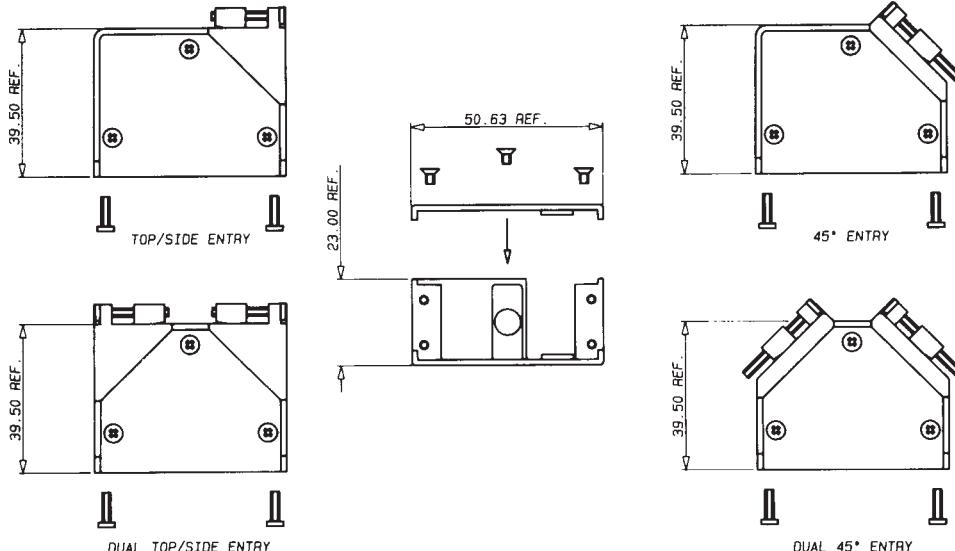
Recommended Layout for Front Chassis Mounting



Standard Covers

Cover Part Number European Version	Cover Part Number USA Version	Number of Positions	Cable Entrance	Clamp	
				Description	Size mm (inches)
30-8016-9821-20-000	30-8016-9821-00-0000	38	Side	Standard	16.51 X 12.70 (0.650 x 0.500)
30-8016-9822-20-000	30-8016-9822-00-0000	38	Top	Standard	16.51 X 12.70 (0.650 x 0.500)
30-8016-9825-20-000	30-8016-9825-00-0000	38	Side	Large	16.51 X 15.44 (0.650 x 0.608)
30-8016-9826-20-000	30-8016-9826-00-0000	38	Top	Large	16.51 X 15.44 (0.650 x 0.608)
30-8016-9838-20-000	30-8016-9838-00-0000	38	Side	Extra-Large	20.83 X 15.60 (0.820 x 0.614)
30-8016-9839-20-000	30-8016-9839-00-0000	38	Top	Extra-Large	20.83 X 15.60 (0.820 x 0.614)

Optional Removable Side Plate Cover



Removable Side Plate Covers

millimeters (inches)

Cover Part Number	Number of Positions	Cable Entrance	Clamp		
			Description	Minimum Size	Maximum Size
30-8016-038-000-413	38	Side/Top	Standard	6 x 14 (0.236 x 0.551)	17 x 14 (0.669 x 0.551)
30-8016-038-000-415	38	45°	Standard	6 x 14 (0.236 x 0.551)	17 x 14 (0.669 x 0.551)
30-8016-038-000-423	38	Dual 90° Side/Top	Special	2 - 6 x 14 (0.236 x 0.551)	2 - 17 x 14 (0.669 x 0.551)
30-8016-038-000-425	38	Dual 45° Entry	Special	2 - 6 x 14 (0.236 x 0.551)	2 - 17 x 14 (0.669 x 0.551)

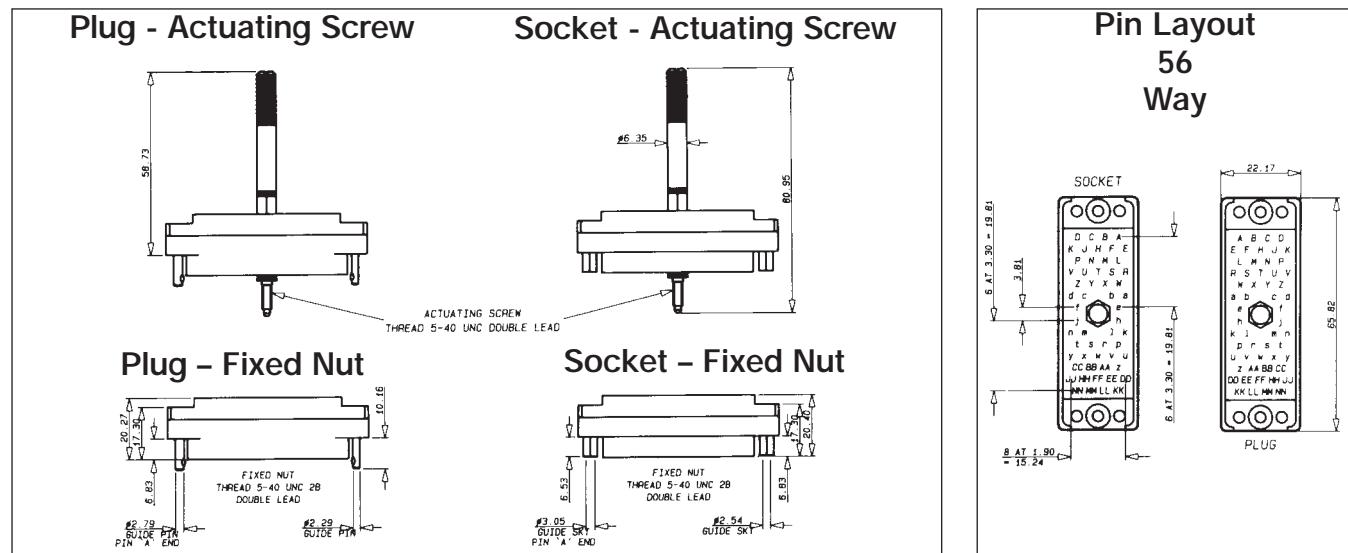
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #316. Visit our website <http://www.avxcorp.com>

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Rack and Panel Connectors - Varicon®



Series 8016 – Rectangular Connector – 56 Way



ORDERING CODE

00 8016 056 XXX 001
 Prefix Series Number Number of Positions See Variation Code

Contact Termination

*000 = Contacts not fitted and ordered separately, see page 22 for full list of options

217 = Solder 0.098" x 2.49mm

218 = Wire Wrap – 0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm

296 = Wire Wrap – 0.025 x 0.026 x 0.579" / 0.64 x 1.27 x 19.3mm

504 = Solder Tail –

750 = Wire Wrap – 0.025 x 0.050 x 0.760" / 0.64 x 1.27 x 19.3mm

*Crimp contacts always ordered separately.

Connector Plug and Receptacle Combinations

Plug	Receptacle
001/501/601	007/507/607
002/502/602	008/508/608
903/503/603	909/509/609
904/504/604	910/510/610
905/505/605	911/511/611
906/506/606	912/512/612
919/519/619	923/523/623
920/520/620	924/524/624
921/521/621	925/525/625
922/522/622	926/526/626
931/531/631	935/535/635
932/532/632	936/536/636
933/533/633	937/537/637
934/534/634	938/538/638

Select variation code combinations marked with square in the table.

Variation Code

Insulator Body Type	European Version			USA ONLY Versions									Cover & Cable Entrance	Actuating Screw	Fixed Nut			
	Grey Polyester			Grey Polyester			Green Polyester			Aluminum Cover								
	Aluminum Cover		No Cover	Aluminum Cover		No Cover	Aluminum Cover		No Cover	Ex-Large Clamp		Std. Clamp	Large Clamp					
Male (Exposed Contacts)	Std. Clamp	Large Clamp	Ex-Large Clamp	001	—	—	—	501	—	—	—	601	None	Yes	No			
	—	—	—		002	—	—		502	—	—	—	None	No	Yes			
	903	919	931	—	503	519	531	—	603	619	631	—	602	Top	Yes	No		
	904	920	932	—	504	520	532	—	604	620	632	—	—	Side	Yes	No		
	905	921	933	—	505	521	533	—	605	621	633	—	—	Top	No	Yes		
	906	922	934	—	506	522	534	—	606	622	634	—	—	Side	Yes	Yes		
Female (Recessed Contacts)	—	—	—	007	—	—	—	507	—	—	—	607	None	No	Yes	Yes		
	—	—	—	008	—	—	—	508	—	—	—	608	None	Yes	No	No		
	909	923	935	—	509	523	535	—	609	623	635	—	—	Top	Yes	No		
	910	924	936	—	510	524	536	—	610	624	636	—	—	Side	Yes	No		
	911	925	937	—	511	525	537	—	611	625	637	—	—	Top	No	Yes		
	912	926	938	—	512	526	538	—	612	626	638	—	—	Side	No	Yes		

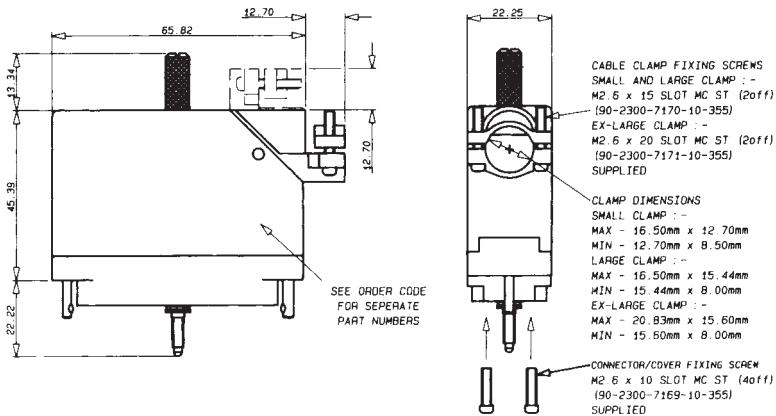
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Rack and Panel Connectors - Varicon®

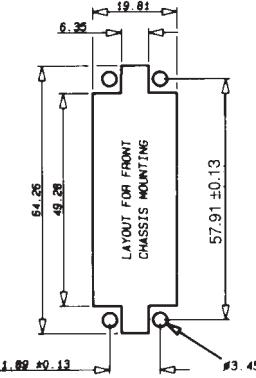


Series 8016 – Rectangular Connector – 56 Way

Clamping and Cover Dimensions



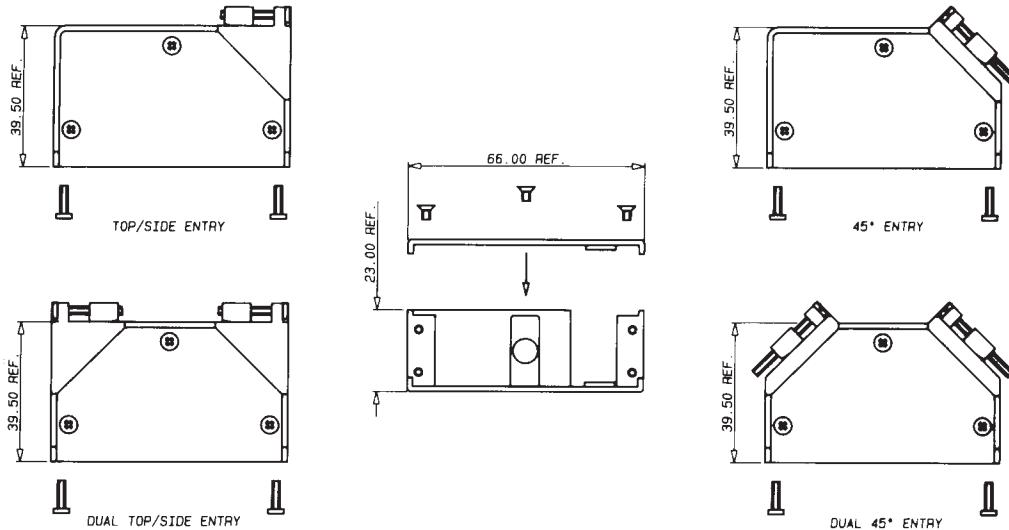
Recommended Layout for Front Chassis Mounting



Standard Covers

European Version	USA Version	Number of Positions	Cable Entrance	Description	Clamp Size mm (inches)
30-8016-9823-20-000	30-8016-9823-00-0000	56	Side	Standard	16.51 X 12.70 (0.650 x 0.500)
30-8016-9824-20-000	30-8016-9824-00-0000	56	Top	Standard	16.51 X 12.70 (0.650 x 0.500)
30-8016-9827-20-000	30-8016-9827-00-0000	56	Side	Large	16.51 X 15.44 (0.650 x 0.608)
30-8016-9828-20-000	30-8016-9828-00-0000	56	Top	Large	16.51 X 15.44 (0.650 x 0.608)
30-8016-9840-20-000	30-8016-9840-00-0000	56	Side	Extra-Large	20.83 X 15.60 (0.820 x 0.614)
30-8016-9842-20-000	30-8016-9842-00-0000	56	Top	Extra-Large	20.83 X 15.60 (0.820 x 0.614)

Optional Removable Side Plate Cover



Removable Side Plate Covers

millimeters (inches)

Cover Part Number	Number of Positions	Cable Entrance	Clamp		
			Description	Minimum Size	Maximum Size
30-8016-056-000-413	56	Side/Top	Standard	6 x 14 (0.236 x 0.551)	17 x 14 (0.669 x 0.551)
30-8016-056-000-415	56	45°	Standard	6 x 14 (0.236 x 0.551)	17 x 14 (0.669 x 0.551)
30-8016-056-000-423	56	Dual 90° Side/Top	Special	2 - 6 x 14 (0.236 x 0.551)	2 - 17 x 14 (0.669 x 0.551)
30-8016-056-000-425	56	Dual 45° Entry	Special	2 - 6 x 14 (0.236 x 0.551)	2 - 17 x 14 (0.669 x 0.551)

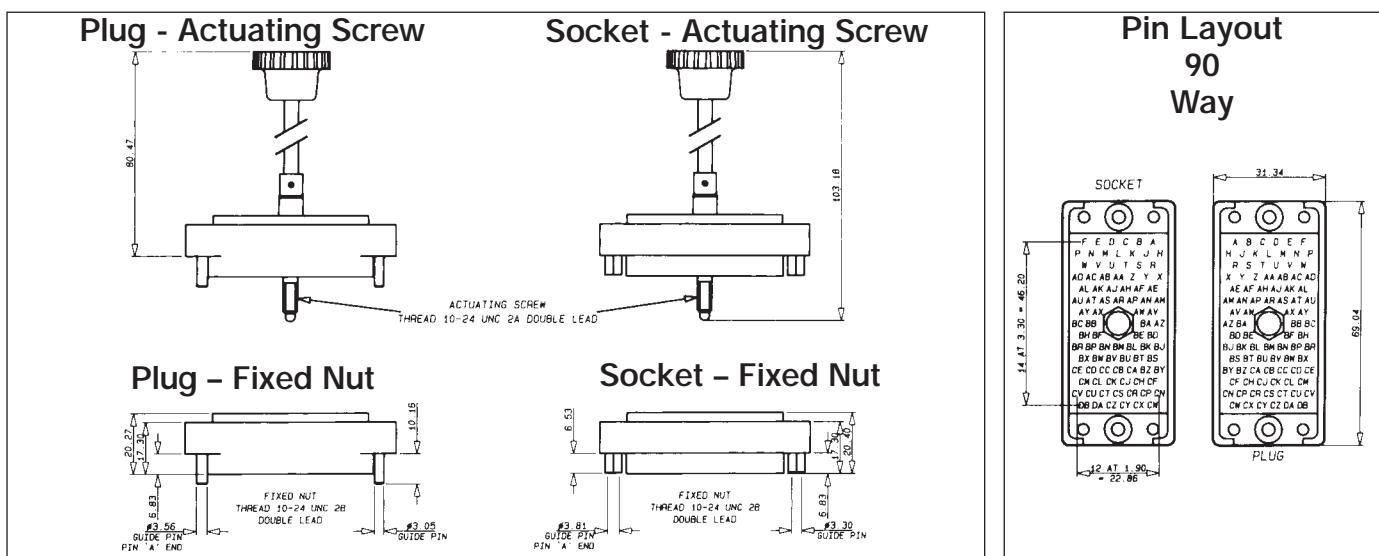
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #318. Visit our website <http://www.avxcorp.com>

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Rack and Panel Connectors - Varicon®



Series 8016 – Rectangular Connector – 90 Way



ORDERING CODE

<u>00</u>	<u>8016</u>	<u>090</u>	<u>XXX</u>	<u>1</u>
Prefix	Series Number	Number of Positions		See Variation Code

Contact Termination

*000 = Contacts not fitted and ordered separately,
see page 22 for full list of options



218 = Wire Wrap -  0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm



0.025 x 0.026 x 0.579" / 0.64 x 1.27 x 19.3mm



0.025 x 0.050 x 0.760" / 0.64 x 1.27 x 19.3mm

*Crimp contacts always ordered separately.

Connector Plug and Receptacle Combinations

Select variation code combinations marked with square in the table.

Variation Code

Insulator Body Type	European Version 		USA ONLY Versions 						Cover & Cable Entrance	Actuating Screw	Fixed Nut			
	Grey Polyester		Grey Polyester			Green Polyester								
	Cover	Cover	Cover	No Cover	Cover	No Cover								
Male (Exposed Contacts)	Large Clamp	Ex-Large Clamp	001	Large Clamp	Ex-Large Clamp	501	Large Clamp	Ex-Large Clamp	601	None	Yes	No		
	—	—		—	—		—	—		None	No	Yes		
	—	—	002	—	—	502	—	—	602	None	Yes	No		
	903	931		503	531		603	631		Top	Yes	No		
	904	932	003	504	532	504	604	632	603	Side	Yes	No		
	905	933		505	533		605	633		Top	No	Yes		
	906	934		506	534		606	634		Side	No	Yes		
Female (Recessed Contacts)	—	—	007	—	—	507	—	—	607	None	No	Yes		
	—	—		—	—		—	—		None	Yes	No		
	—	—	008	—	—	508	—	—	608	Top	Yes	No		
	909	935		509	535		609	635		Side	Yes	No		
	910	936	009	510	536	509	610	636	609	Top	No	Yes		
	911	937		511	537		611	637		Side	No	Yes		
	912	938		512	538		612	638		Top	No	Yes		

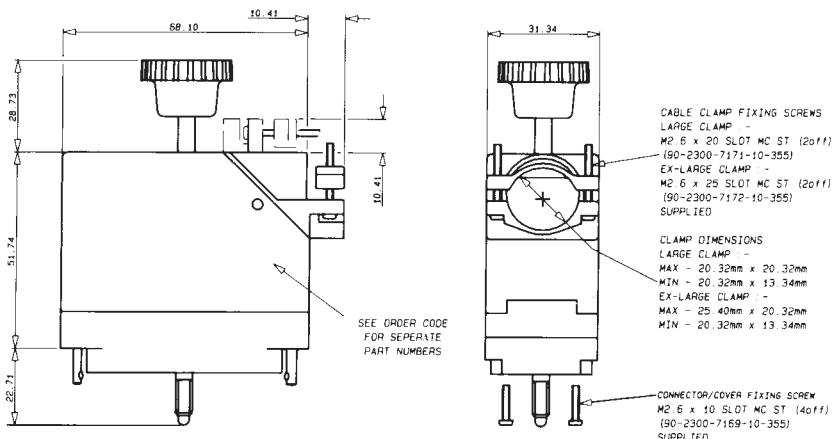
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Rack and Panel Connectors - Varicon®

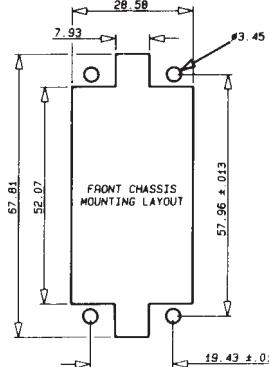


Series 8016 – Rectangular Connector – 90 Way

Clamping and Cover Dimensions



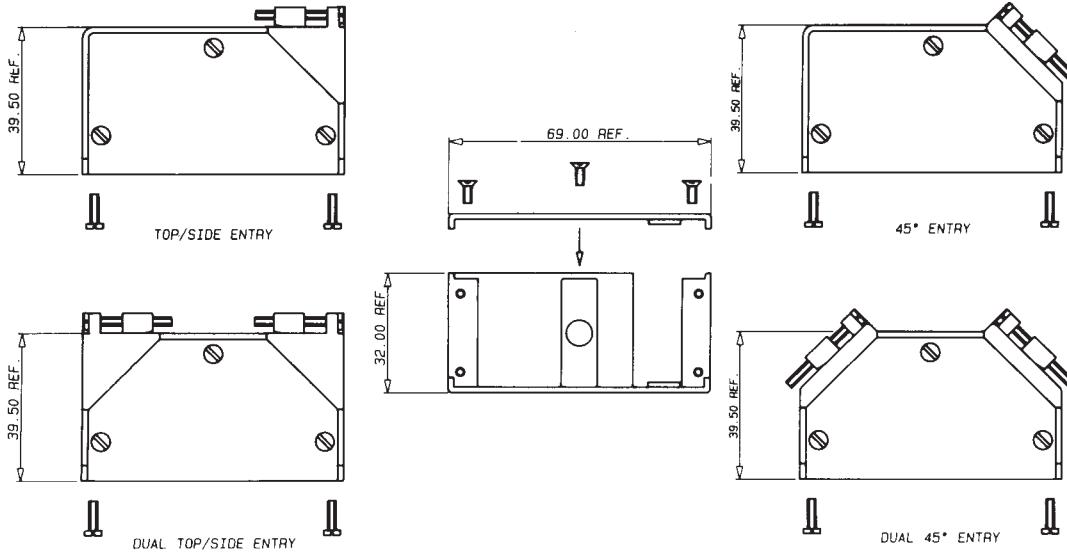
Recommended Layout for Front Chassis Mounting



Standard Covers

Cover Part Number 	Number of Positions 	Cable Entrance	Description	Clamp Size mm (inches)
30-8016-9832-20-000	30-8016-9832-00-0000	90	Side	Large 20.32 (0.800) Dia.
30-8016-9833-20-000	30-8016-9833-00-0000	90	Top	Large 20.32 (0.800) Dia.
30-8016-9843-20-000	30-8016-9843-00-0000	90	Side	Extra-Large 25.40 x 20.32 (1.00 x 0.008)
30-8016-9844-20-000	30-8016-9844-00-0000	90	Top	Extra-Large 25.40 x 20.32 (1.00 x 0.008)

Optional Removable Side Plate Cover



Removable Side Plate Covers

millimeters (inches)

Cover Part Number	Number of Positions	Cable Entrance	Clamp		
			Description	Minimum Size	Maximum Size
30-8016-090-000-413	90	Side/Top	Standard	7 x 21 (0.276)	21 x 21 (0.827 x 0.827)
30-8016-090-000-415	90	45°	Standard	7 x 21 (0.276)	21 x 21 (0.827 x 0.827)
30-8016-090-000-423	90	Dual 90° Side/Top	Special	2 - 7 x 21 (0.276)	2 - 21 x 21 (0.827 x 0.827)
30-8016-090-000-425	90	Dual 45° Entry	Special	2 - 7 x 21 (0.276)	2 - 21 x 21 (0.827 x 0.827)

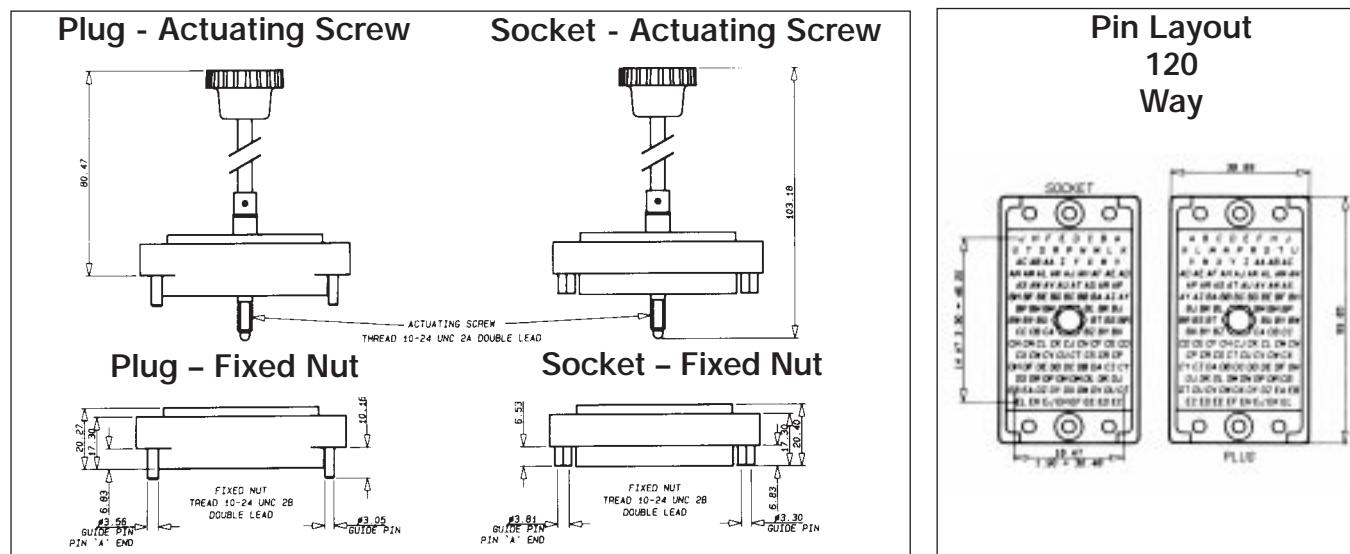
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #320. Visit our website <http://www.avxcorp.com>

ELCO

Rack and Panel Connectors - Varicon®



Series 8016 – Rectangular Connector – 120 Way



ORDERING CODE

00	8016	120	XXX	001
Prefix	Series Number	Number of Positions		See Variation Code

Contact Termination

*000 = Contacts not fitted and ordered separately,
see page 22 for full list of options

217 = Solder 0.098" x 2.49mm

218 = Wire Wrap -  0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm

296 = Wire Wrap - 0.025 x 0.026 x 0.579" / 0.64 x 1.27 x 19.2mm

504 = Solder Tail -

750 = Wire Wrap -  0.025 x 0.050 x 0.700" / 0.64 x 1.27 x 18.2mm

*Crimp contacts always ordered separately

Connector Plug and Receptacle Combinations

Select variation code combinations marked with square in the table.

Variation Code

Insulator Body Type	European Version				USA ONLY Versions					Cover & Cable Entrance	Actuating Screw	Fixed Nut			
	Grey Polyester		Grey Polyester			Green Polyester									
	Cover	Cover	Cover	No Cover	Cover	No Cover									
Male (Exposed Contacts)	Large Clamp	Ex-Large Clamp	001	—	—	501	—	—	601	None	Yes	No			
	—	—		—	—		—	—		None	No	Yes			
	—	—	002	—	—	502	—	—	602	None	Top	No			
	903	931	—	503	531	—	603	631	—	Yes	Side	Yes			
	904	932	—	504	532	—	604	632	—	Yes	Top	No			
	905	933	—	505	533	—	605	633	—	Yes	Side	Yes			
	906	934	—	506	534	—	606	634	—	Yes	Top	No			
Female (Recessed Contacts)	—	—	007	—	—	507	—	—	607	None	Yes	No			
	—	—	008	—	—	508	—	—	608	None	Top	No			
	909	935	—	509	535	—	609	635	—	Yes	Side	Yes			
	910	936	—	510	536	—	610	636	—	Yes	Top	No			
	911	937	—	511	537	—	611	637	—	Yes	Side	Yes			
	912	938	—	512	538	—	612	638	—	Yes	Top	No			
	—	—	—	—	—	—	—	—	—	None	Side	Yes			

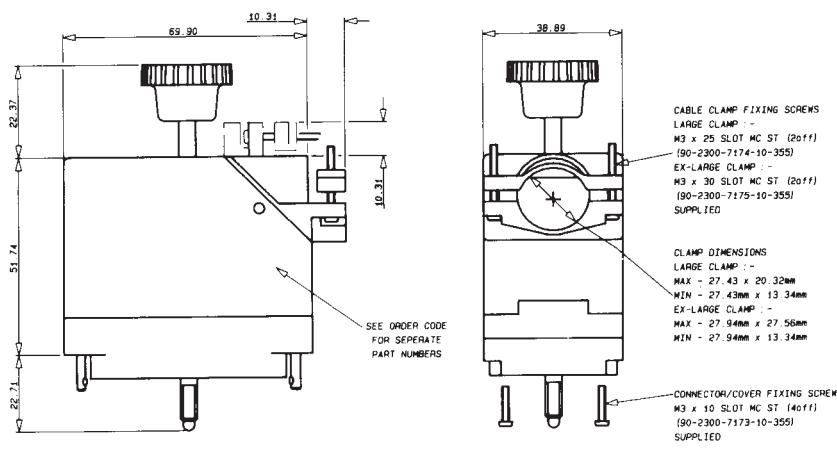
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #321. Visit our website <http://www.avxcorp.com>

Rack and Panel Connectors - Varicon®

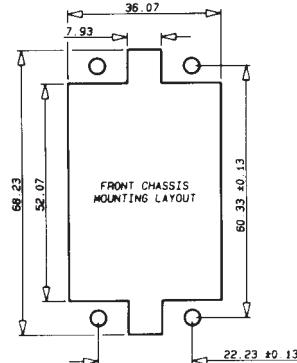


Series 8016 – Rectangular Connector – 120 Way

Clamping and Cover Dimensions



Recommended Layout for Front Chassis Mounting



Standard Covers

Cover Part Number European Version	USA Version	Number of Positions	Cable Entrance	Clamp Description	Size mm (inches)
30-8016-9834-20-000	30-8016-9834-00-0000	120	Side	Large	20.32 x 27.43 (0.800 x 1.080)
30-8016-9835-20-000	30-8016-9835-00-0000	120	Top	Large	20.32 x 27.43 (0.800 x 1.080)
30-8016-9845-20-000	30-8016-9845-00-0000	120	Side	Extra-Large	27.94 x 27.56 (1.100 x 1.085)
30-8016-9846-20-000	30-8016-9846-00-0000	120	Top	Extra-Large	27.94 x 27.56 (1.100 x 1.085)

NB: There are no removable side plate covers for the 120 Way version.

Contact Style	Description	Plating Specification	Order Code
* Ordered separately	Crimp Contact Loose	0.25µM Gold All Over (Standard) 0.25µM Gold Nose & Tail (Optional)	60 8017 0313 00 339 60 8017 0313 00 042
 Ordered separately	Crimp Contact End Carrier (1800 Contacts per reel)	0.25µM Gold All Over (Standard) 0.25µM Gold Nose & Tail (Optional) 0.25µM Gold All Over (Standard) 0.25µM Gold Nose & Tail (Optional)	60 8017 0323 99 339 60 8017 0323 99 042 60 8017 0323 00 339** 60 8017 0323 00 042**
Tail Section – 2.49 x 0.61 (0.098 x 0.024) * If fitted type 217	Solder Tag Contact	0.25µM Gold All Over (Standard)	60 8017 0513 00 339
Tail Section – 1.27 x 0.63 (0.025 x 0.005) If fitted type 218	14.4mm Maxiwrap Contact	0.25µM Gold All Over (Standard)	60 8017 0613 00 339
Tail Section – 1.27 x 0.63 (0.025 x 0.005) If fitted type 750	19.3mm Maxiwrap Contact	0.25µM Gold All Over (Standard)	60 8017 0623 00 339
Tail Section – 0.635 x 0.63 (0.025 x 0.005) If fitted type 296	14.0 Miniwrap Contact	0.25µM Gold All Over (Standard)	60 8017 0633 00 339
Tail Section – 0.635 x 0.63 (0.025 x 0.005) * If fitted type 504	4.3mm PC Solder Contact for ø 1.00 mm P.T.H.	0.25µM Gold All Over (Standard)	60 8017 0663 00 339

* Indicates standard contact / ** Order code to be used when purchasing through a USA source.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #322. Visit our website <http://www.avxcorp.com>

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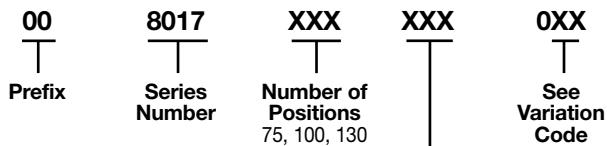
Series 8017

Variation Code

Insulator Body Type	Variation Code No.	Cover & Cable Entrance	Actuating Screw	Fixed Screw
Plug	001	No	Yes	No
	002	No	No	Yes
	003	Top	Yes	No
	004	Side	Yes	No
	005	Top	No	Yes
	006	Side	No	Yes

Insulator Body Type	Variation Code No.	Cover & Cable Entrance	Fixed Nut	Actuating Nut
Receptacle	007	No	Yes	No
	008	No	No	Yes
	009	Top	Yes	No
	010	Side	Yes	No
	011	Top	No	Yes
	012	Side	No	Yes

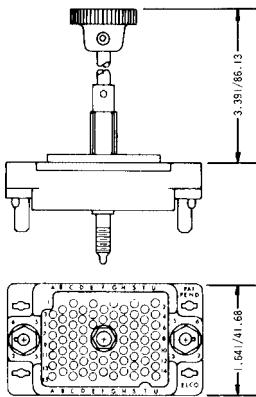
ORDERING CODE



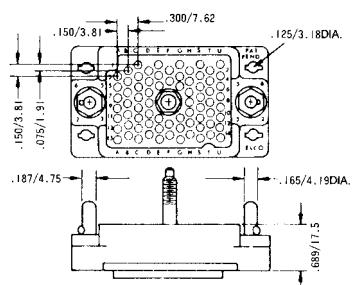
Contact Code	
217 = Solder 0.098" x 2.49mm -	60 8017 0513 00 339
218 = Wire Wrap -	0.025 x 0.050 x 0.567" / 0.64 x 1.27 x 14.4mm 60 8017 0613 00 339
750 = Wire Wrap -	0.025 x 0.050 x 0.760" / 0.64 x 1.27 x 19.3mm 60 8017 0623 00 339
296 = Wire Wrap -	0.025 x 0.026 x 0.579" / 0.64 x 0.66 x 14.7mm 60 8017 0633 00 339
000 = Wire Crimp (Contacts Loose) -	Must be ordered separately 60 8017 0313 00 339
000 = Wire Crimp (1800 Contacts on a Reel) -	Must be ordered separately 60 8017 0323 00 339

75/100/130 Contacts

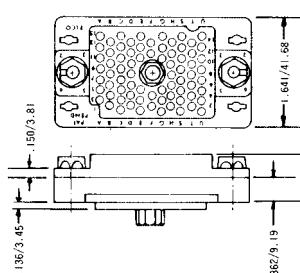
Plug with Actuating Screw 001



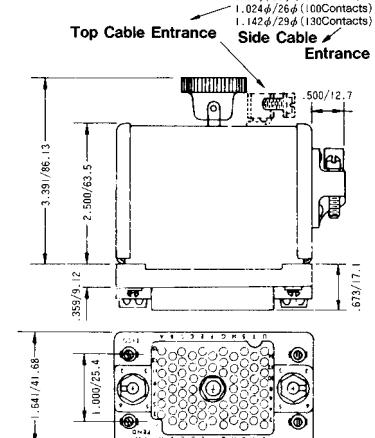
Plug with Fixed Screw 002



Receptacle with Fixed Nut 007

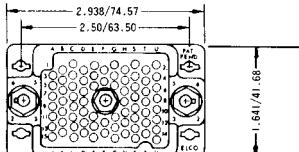


Receptacle with Actuating Nut 008



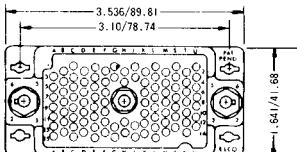
75 Contacts

Plug

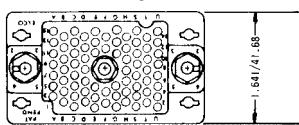


100 Contacts

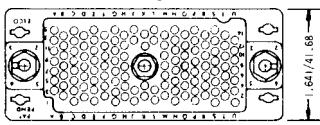
Plug



Receptacle

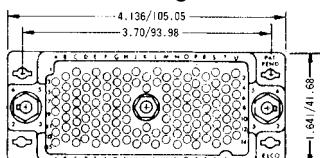


Receptacle

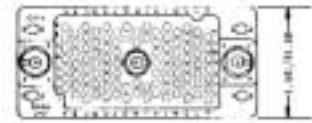


130 Contacts

Plug



Receptacle



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #323. Visit our website <http://www.avxcorp.com>

Series 8026 – 0.100" Rectangular Connector**Variation Codes****33 Contacts**
Table 1

Insulator Body Type	Variation Code No.	Actuating Screw	Fixed Nut	Keying Hardware	Cover
Male (Exposed Contacts)	701	Yes	No	Yes	No
	702	Yes	No	No	No
	703	No	Yes	Yes	No
	704	No	Yes	No	No
	733	No	No	Yes	No
Female (Recessed Contacts)	734	No	No	No	No
	801	No	Yes	Yes	No
	802	No	Yes	No	No
	803	Yes	No	Yes	No
	804	Yes	No	No	No
	833	No	No	Yes	No
	834	No	No	No	No

Table 2

Male (Exposed Contacts)	501	Yes	No	Yes	No
	502	Yes	No	No	No
	503	No	Yes	Yes	No
	504	No	Yes	No	No
Female (Recessed Contacts)	601	No	Yes	Yes	No
	602	No	Yes	No	No
	603	Yes	No	Yes	No
	604	Yes	No	No	No

ORDERING CODE

00 8026 033 XXX 803
 Prefix Series Number Number of Positions See Variation Code
 033 = 33 117 = 117
 075 = 75 165 = 165

Contact Code

000 = Crimp (3000 - contact reel)



Part Number

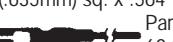
60 8216 0323 00 339

000 = Crimp (loose contact) Accepts #22-30 AWG wire



Part Number

60 8216 0313 00 339

491 = Wire wrappable removable contact
.025" (.635mm) sq. x .564" (14.33mm) tail

Part Number

60 8216 0413 00 339

Order crimp contacts separately by Part Number.
Otherwise specify contact code 491.**COVER CROSS REFERENCE, FOR DETAILS SEE 8016 CONNECTOR**

Cover Number	Cable Entrance	Clamp	
		Description	8026/.100" (2.54mm) sq.
30-8016-9821	Side	Small	75 Pin
30-8016-9822	Top	Small	75 Pin
30-8016-9823	Side	Small	117 Pin
30-8016-9824	Top	Small	117 Pin
30-8016-9825	Side	Large	75 Pin
30-8016-9826	Top	Large	75 Pin
30-8016-9827	Side	Large	117 Pin
30-8016-9828	Top	Large	117 Pin
30-8016-9832	Side	Large	165 Pin
30-8016-9833	Top	Large	165 Pin
30-8016-9838	Side	Ex-Large	75 Pin
30-8016-9839	Top	Ex-Large	75 Pin
30-8016-9840	Side	Ex-Large	117 Pin
30-8016-9842	Top	Ex-Large	117 Pin
30-8016-9843	Side	Ex-Large	165 Pin
30-8016-9844	Top	Ex-Large	165 Pin
30-8016-9845	Side	Ex-Large	—
30-8016-9846	Top	Ex-Large	—

Additional information on this product is available from AVX's catalog or AVX's FAX Service.

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-874-6869 and request 800-874-6869 #324 and request website at www.avxcorp.com. Visit our website <http://www.avxcorp.com>**75, 117 & 165 Contacts**

Table 3

Insulator Body Type	Variation Code No.			Cable Entrance	Actuating Screw	Fixed Nut	Keying Hardware
	Without Cover	Cover Small Clamp	Cover Large Clamp				
Male (Exposed Contacts)	701	—	—	No	Yes	No	Yes
	702	—	—	No	Yes	No	No
	703	—	—	No	No	Yes	Yes
	704	—	—	No	No	Yes	No
	733	—	—	No	No	No	Yes
	734	—	—	No	No	No	No
	—	705	713	Top	Yes	No	Yes
	—	706	714	Side	Yes	No	Yes
	—	707	715	Top	Yes	No	No
	—	708	716	Side	Yes	No	No
	—	709	717	Top	No	Yes	Yes
	—	710	718	Side	No	Yes	Yes
	—	711	719	Top	No	Yes	No
	—	712	720	Side	No	Yes	No
	—	735	739	Top	No	No	Yes
	—	736	740	Side	No	No	Yes
	—	737	741	Top	No	No	No
	—	738	742	Side	No	No	No
Female (Recessed Contacts)	801	—	—	No	No	Yes	Yes
	802	—	—	No	No	Yes	No
	803	—	—	No	Yes	No	Yes
	804	—	—	No	Yes	No	No
	833	—	—	No	No	No	Yes
	834	—	—	No	No	No	No
	—	805	813	Top	No	Yes	Yes
	—	806	814	Side	No	Yes	Yes
	—	807	815	Top	No	Yes	No
	—	808	816	Side	No	Yes	No
	—	809	817	Top	Yes	No	Yes
	—	810	818	Side	Yes	No	Yes
	—	811	819	Top	Yes	No	No
	—	812	820	Side	Yes	No	No
	—	835	839	Top	No	No	Yes
	—	836	840	Side	No	No	Yes
	—	837	841	Top	No	No	No
	—	838	842	Side	No	No	No

Table 4

Insulator Body Type	Variation Code No.			Cable Entrance	Actuating Nut	Fixed Screw	Keying Hardware
	Without Cover	Cover Small Clamp	Cover Large Clamp				
Male (Exposed Contacts)	501	—	—	No	Yes	No	Yes
	502	—	—	No	Yes	No	No
	503	—	—	No	No	Yes	Yes
	504	—	—	No	No	Yes	No
	—	505	513	Top	Yes	No	Yes
	—	506	514	Side	Yes	No	Yes
	—	507	515	Top	Yes	No	No
	—	508	516	Side	Yes	No	No
	—	509	517	Top	No	Yes	Yes
	—	510	518	Side	No	Yes	Yes
	—	511	519	Top	No	Yes	No
	—	512	520	Side	No	Yes	No
Female (Recessed Contacts)	601	—	—	No	No	Yes	Yes
	602	—	—	No	No	Yes	No
	603	—	—	No	Yes	No	Yes
	604	—	—	No	Yes	No	No
	—	605	613	Top	No	Yes	Yes
	—	606	614	Side	No	Yes	Yes
	—	607	615	Top	No	Yes	No
	—	608	616	Side	No	Yes	No
	—	609	617	Top	Yes	No	Yes
	—	610	618	Side	Yes	No	Yes
	—	611	619	Top	Yes	No	No
	—	612	620	Side	Yes	No	No

Varicon®

AVX

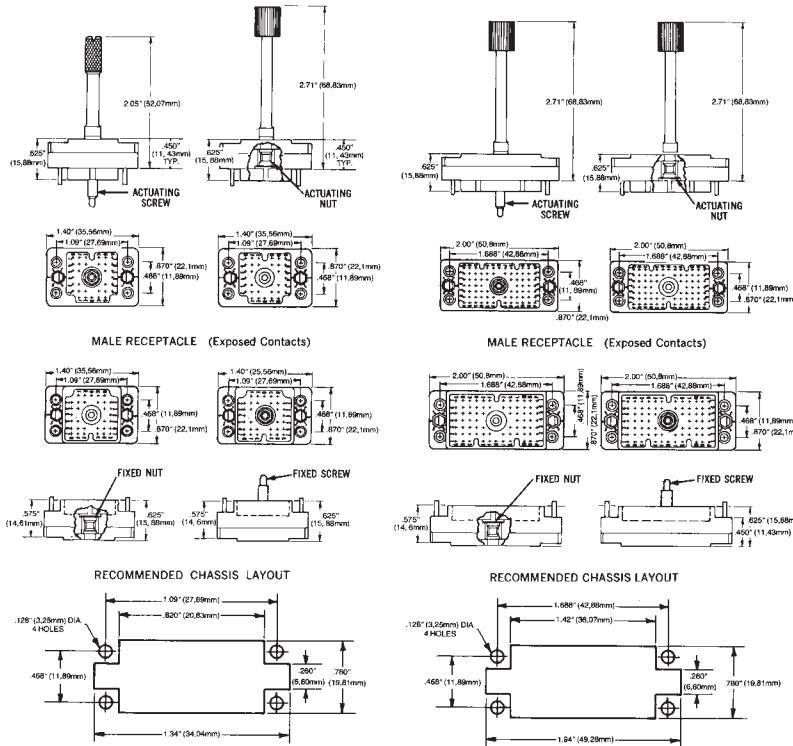
Series 8026 – 0.100" Rectangular Connector

33 CONTACTS

Female Plug (Recessed Contacts) For variation code number

See Table 1 Page 324

See Table 2 Page 324

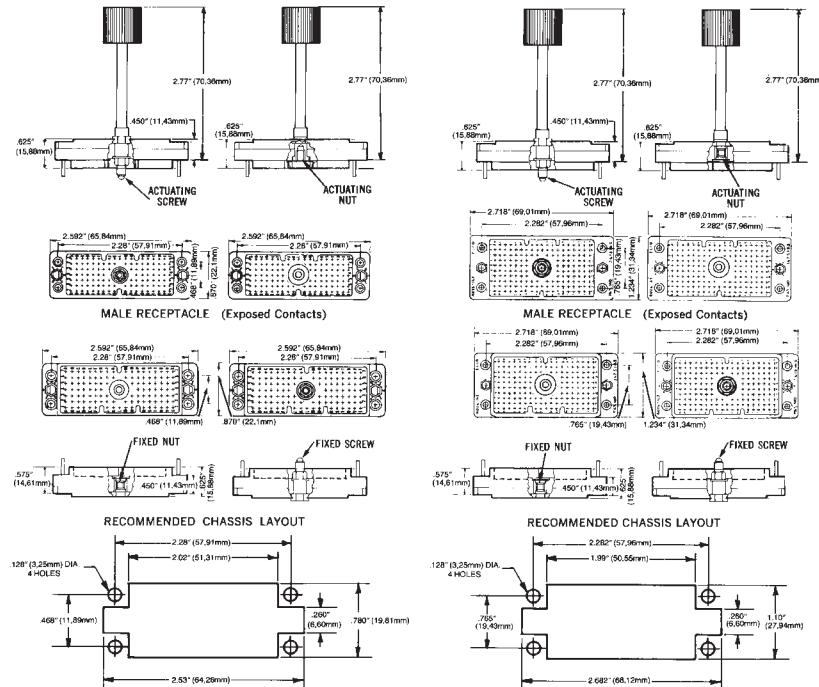


117 CONTACTS

Female Plug (Recessed Contacts) For variation code number

See Table 3 Page 324

See Table 4 Page 324

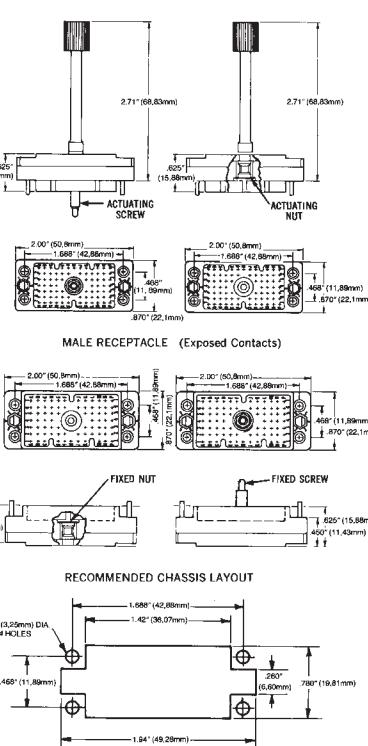


75 CONTACTS

Female Plug (Recessed Contacts) For variation code number

See Table 3 Page 324

See Table 4 Page 324

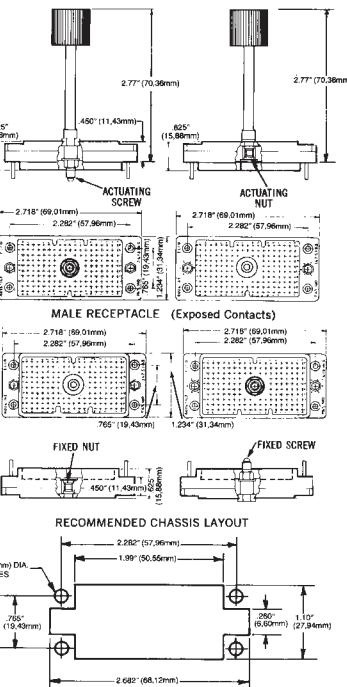


65 CONTACTS

Female Plug (Recessed Contacts) For variation code number

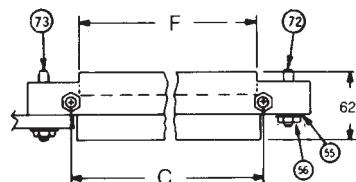
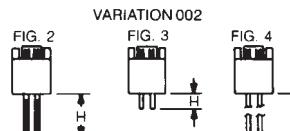
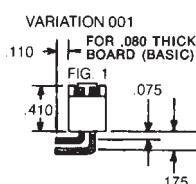
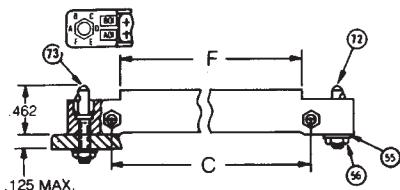
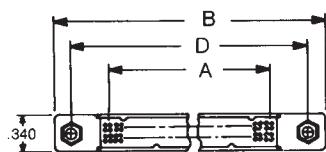
See Table 3 Page 324

See Table 4 Page 324

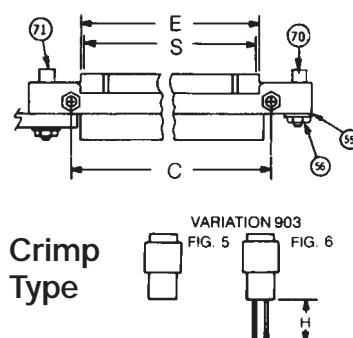
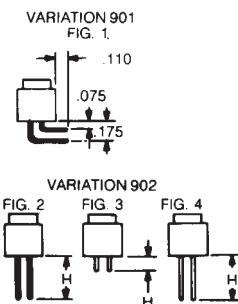
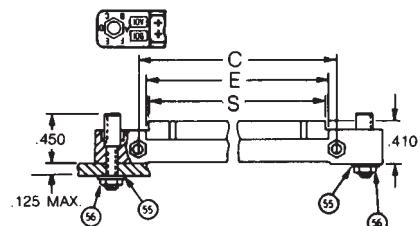


Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #325. Visit our website <http://www.avxcorp.com>

ELCO

Series 8223 - 0.100" Dual Row Square Grid**Male Insulators**

Crimp Type

Female Insulators

Crimp Type

ORDERING CODE

00 8223

XXX Number of Positions
024, 048, 072 & 096

XXX Contact Code

XXX Variation Code

Use three digit code number when contacts are to be factory installed. If contacts are to be supplied loose, or contact tails to be formed, use three zeros (000) in contact code section. Note that the wire crimp tail contacts can only be ordered as separate items by part numbers.

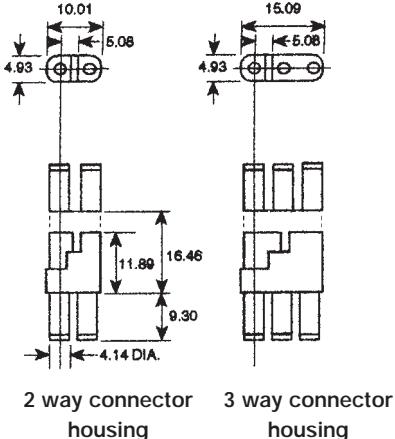
Code	Profile	Description	Part No.	H Dim.	Board Thk.	Fig.
000		Coined Tail Formed 90° after installing (Max. 0236 Diag.)	60 8223 0223 60 8223 0213	.080 .062	.062	1
000		Coined Tail Formed 90° after installing (Max. 0236 Diag.)	60 8223 0243 60 8223 0253	.093	.093	1
473		PC. Tail Coined (Max. 0236 Diag.)	60 8223 0233	.400		2
519		PC. Tail Coined (Max. 0236 Diag.)	60 8223 0213	.279		2
520		PC. Tail Coined (Max. 0236 Diag.)	60 8223 0223	.479		2
558		PC. Tail Coined (Max. 0236 Diag.)	60 8223 0243	.309	.2	2
559		PC. Tail Coined (Max. 0236 Diag.)	60 8223 0253	.509	.2	2
560		PC. Tail Coined (Max. 0236 Diag.)	60 8223 0263	.341	.2	2
561		PC. Tail Coined (Max. 0236 Diag.)	60 8223 0273	.541	.2	2
722		Wire Hole Tail (.032 x .050)	60 8200 1613	.162		3
721		PC. Tail .020 Sq.	60 8200 1623	.228		4
736		PC. Tail .020 Sq.	60 8200 1633	.259		4
737		PC. Tail .020 Sq.	60 8200 1643	.541		4
753		PC. Tail .020 Sq.	60 8200 1653	.103		4
771		P.C. Tail .020 Sq.	60 8200 1663	.462		4
000		Crimp Contact (Reel 3000) 22-30 AWG	60 8216 0323			5
000		Crimp Contact (Loose) 22-30 AWG	60 8216 0313			5
491		Wrappable/Removable Contact (.025 Sq.)	60 8216 0413	.560		6

Insulator Type	Variation	Contact Style	Accessories				Refer To Figure	Board Thickness
			Cover	Bracket	Guide Pins Sockets (R)	Threaded Locking Lkg. Kyg.		
Male (Exposed Contacts)	001	Formed Contact Terminal			X		1	.080 2.03 .062 1.57
	002	PC Terminal			X		2	
	002	Wire Hole Terminal			X		3	
	003	PC Straight Terminal			X		4	
	003	Crimp Contact			X		5	
	004	Wrappable Removable			X		6	
	004	Formed Contact Terminal			X		1	.093 2.36
	006	Similar to 001				X	7	
	007					X	8	
	008	Similar to 002			X		7	
	009					X	8	
	016	Similar to 004			X		7	
	017					X	8	
	018	Similar to 006			X		7	
	019					X	8	
Female (Exposed Contacts)	901	Formed Contact Terminal			X		1	.080 2.03 .062 1.57
	902	PC Terminal			X		2	
	902	Wire Hole Terminal			X		3	
	903	PC Straight Terminal			X		4	
	903	Crimp Contact			X		5	
	904	Wrappable Removable			X		6	
	904	Formed Contact Terminal			X		1	.093 2.36
	906	Similar to 901				X	15	
	907					X	16	
	908	Similar to 902			X		15	
	909					X	16	
	916	Similar to 904			X		15	
	917					X	16	
	918	Similar to 905			X		15	
	919					X	16	

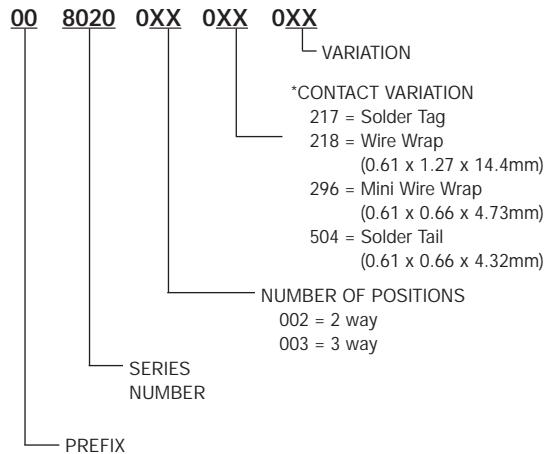
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #326. Visit our website <http://www.avxcorp.com>

Series 8020 – Cable Connector

Connector Dimensions (mm)

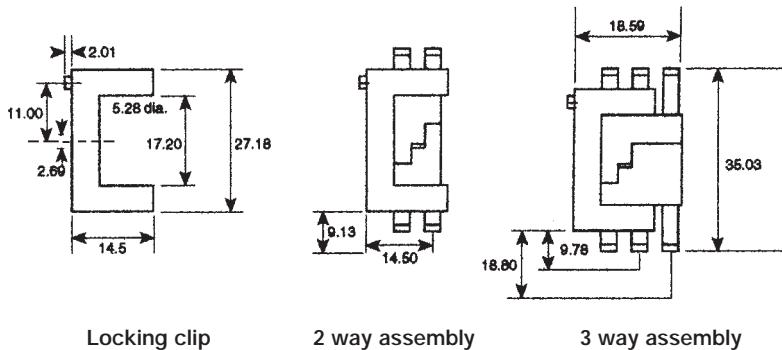


ORDERING CODE For complete connectors with Non-Crimp Contacts Fitted



*Contact terminations should be insulated because they may protrude from the insulator

Locking Clip Dimensions (mm)



Features and Benefits

- 2 and 3 position in single row
- Uses identical molding for plug and socket
- Uses identical contact for plug and socket
- Uses standard Varicon 8016 contacts
- Uses standard Varicon Crimping Tools, Contact Extraction Tools and Insertion Tools
- Has combined nylon mounting and locking clip common to both sizes
- Contacts for both solder and crimp termination

Specifications

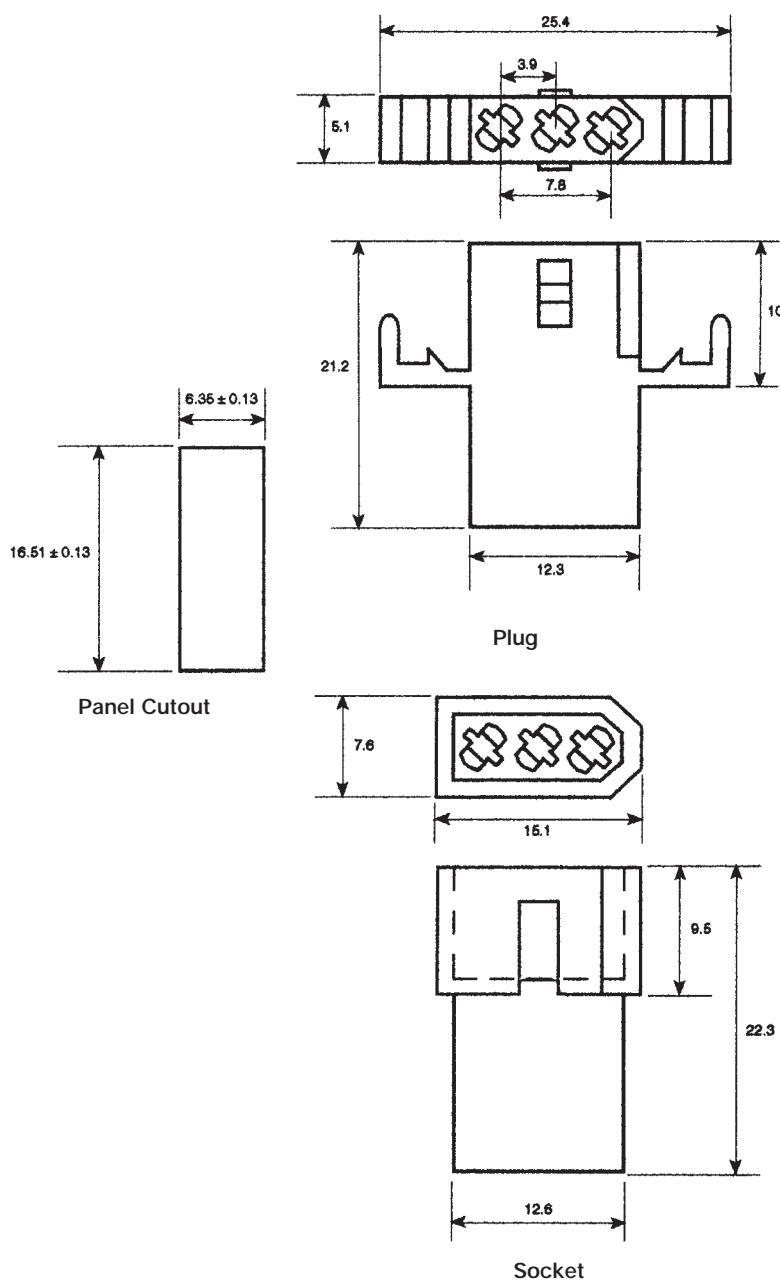
- Contact – Single row of 2 or 3 Varilok contacts
- Configuration – On a 0.200" pitch, 5.08 mm
- Contact Rating – 8.5 amperes
- Contact Resistance – 6 milliohms (max)
- Insulation Resistance – 5,000 megohms (min)
- Voltage Proof – 2,500 volts R.M.S. Sea Level

Ordering Code for Housings and Crimp Contacts

Description	Part Number	Description	Part Number
2 way connector: Housing only	60-8020-3117-00-000	0.25µM Gold reeled crimp contacts (gold all over)	60-8017-0323-99-339
3 way connector: Housing only	60-8020-3317-00-000	0.25µM Gold reeled crimp contacts (selective)	60-8017-0323-99-042
0.25µM Gold loose crimp contacts (gold all over)	60-8017-0313-00-339	NB: See page 22 for details of crimp contacts	
0.25µM Gold loose crimp contacts (selective)	60-8017-0313-00-042	Locking clip	60-8020-3210-00-000

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #327. Visit our website <http://www.avxcorp.com>

Series 8022 – Cable Connector



Part Numbers

Plug Molding	60 8022 3218 00 000
Socket Molding	60 8022 3318 00 000
Crimp Contacts (loose)	60 8017 0313 00 339
Crimp Contacts (reel)	60 8017 0323 00 339

Features

- 3 position in single row
- Male insulator incorporates two positive locking arms for up to 1.6 mm thick panel mount
- Uses identical contact for plug and socket
- Uses standard Varicon 8016 contacts (8017 Series)
- Uses standard Varicon Crimping Tools, Contact Extraction Tools and Insertion Tools
- Has mounting and locking clip mechanism
- Contacts for both solder and crimp termination

Technical Specifications

- Contact Spacing – 5.08 mm
- Contact Rating – 8.5 amperes
- Contact Resistance – 6 milliohms (max)
- Insulation Resistance – 5K megohms
- Voltage Proof – 2.5K volts R.M.S. Sea Level
- Operating Temperature – -55°C to 125°C

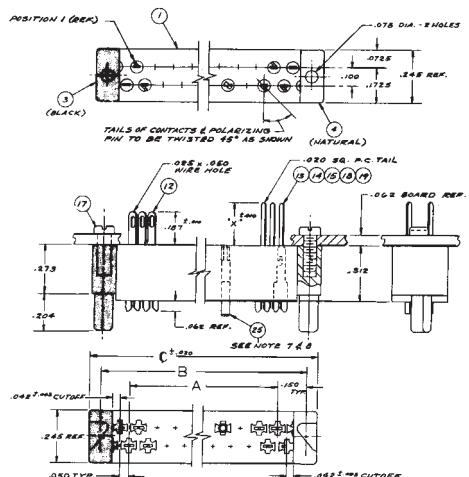
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #328. Visit our website <http://www.avxcorp.com>

Varicon®

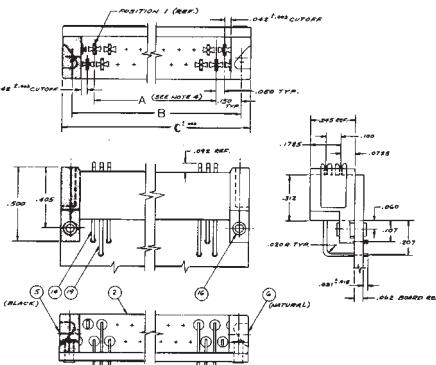


Series 8218 – 0.050" Staggered Dual Row

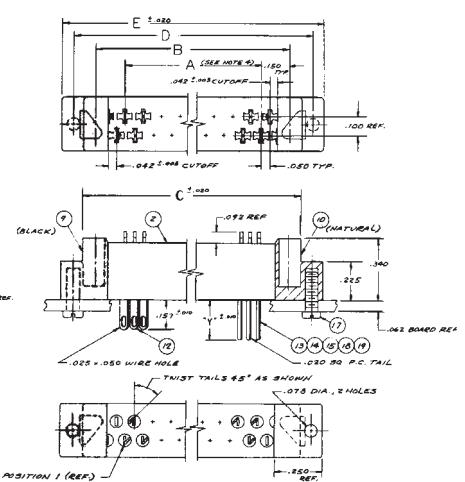
Receptacle Variation 001



Plug Variation 002



Plug Variation 005



Receptacle 001 – Mates with Plugs 002 and 005

ORDERING CODE

00

8218

100

Number of Positions
002 to 076 for connectors without center guide

XXX

Contact Code

0XX

Variation Code
001 = Receptacle
002 = Plug-Card
005 = Plug-Board

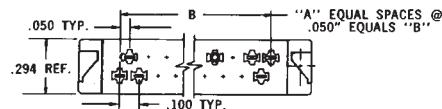
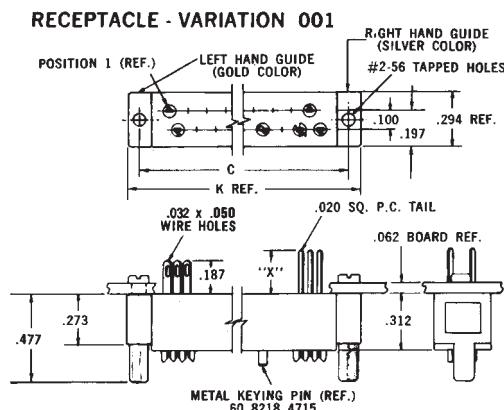
with keying pins
011 = Receptacle
012 = Plug-Card/pin inserted in odd position
013 = Plug-Card/pin inserted in even position
017 = Plug-Board

with keying holes
021 = Receptacle
022 = Plug-Card/pin inserted in odd position
023 = Plug-Card/pin inserted in even position
027 = Plug-Board

Variant 002 right angled contacts	
000 = 60 8200 16 33	P.C. Tail
000 = 60 8200 16 63	P.C. Tail
Variants 001 and 005	
722 = 60 8200 16 13	Wire Hole Tail
736 = 60 8200 16 33	P.C. Tail (X = 9/32", Y = 1/4")
753 = 60 8200 16 53	P.C. Tail (X = 1/8", Y = 3/32")
771 = 60 8200 16 63	P.C. Tail (X = 31/64", Y = 29/64")

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #329. Visit our website <http://www.avxcorp.com>

ELCO

Series 8219 – 0.050" Staggered Dual Row**Dimensions: millimeters (inches)**

Number of Positions	A	B	C	Ref. D	E	F	G	Ref. K
18	17	.850 (0.033)	1.150 (0.045)	1.290 (0.051)	1.400 (0.055)	1.540 (0.061)	.964 (0.038)	1.300 (0.051)
30	29	1.450 (0.057)	1.750 (0.069)	1.890 (0.075)	2.000 (0.079)	2.140 (0.084)	1.564 (0.061)	1.900 (0.075)
36	35	1.750 (0.069)	2.050 (0.080)	2.190 (0.086)	2.300 (0.091)	2.440 (0.096)	1.864 (0.073)	2.220 (0.087)
42	41	2.050 (0.080)	2.350 (0.093)	2.490 (0.098)	2.600 (0.102)	2.740 (0.108)	2.164 (0.085)	2.500 (0.098)
54	53	2.650 (0.104)	2.950 (0.116)	3.090 (0.122)	3.200 (0.126)	3.340 (0.131)	2.764 (0.109)	3.100 (0.122)
72	71	3.550 (0.140)	3.850 (0.152)	3.990 (0.157)	4.100 (0.161)	4.240 (0.167)	3.664 (0.144)	4.000 (0.157)

Receptacle 001 - Mates with Plugs 002 and 005**ORDERING CODE**

00

8219

042

722

001

Number of Positions
018, 030, 036, 042, 054, 072Contact Code
(see below)

Variation Code

For Variation = 001			For Variation = 002		
Code No.	Contact Type	"X" Dim.	Code No.	Contact Type	"Y" Dim.
722	Wire hole tail	.187	000	P. C. solder tails formed	
721	P. C. solder tail	.250	722	Wire hole tail unformed	
736	P. C. solder tail	.281			
737	P. C. solder tail	.562			
753	P. C. solder tail	.125			
771	P. C. solder tail	.484			

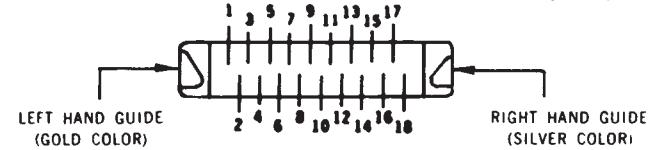
For Variation = 005

Code No.	Contact Type	"Y" Dim.
722	Wire hole tail	.157
721	P. C. solder tail	.219
736	P. C. solder tail	.250
737	P. C. solder tail	.531
753	P. C. solder tail	.093
771	P. C. solder tail	.453

Without Keying	001 = Receptacle
	002 = Plug, perpendicular board mounting
	005 = Plug, parallel board mounting

NOTE: Connector is supplied with mounting screws or eyelets, as applicable (see drawings).

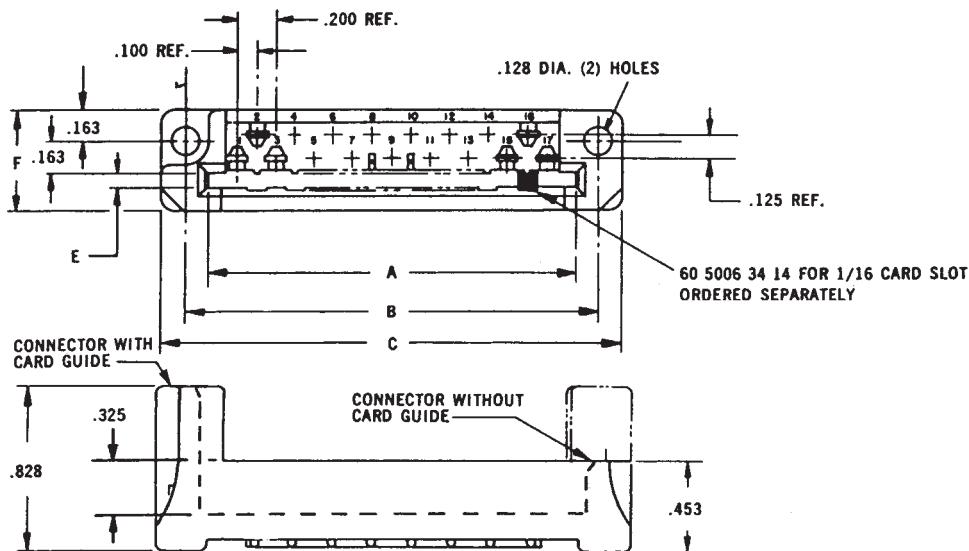
Contact Factory for Special Variations.

POLARIZING SYSTEM

When Keying is ordered with part number, the Key is installed at the factory.

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #330. Visit our website <http://www.avxcorp.com>

Series 7008 - 0.100" Staggered Dual Row



ORDERING CODE

00

7008

0XX

XXX

001

Number of Positions
017, 023, 029, 035, 041Contact Code
See table

Variation Code

141 = 60 7001 06 13	
P.C. Termination for 1/8" Card	
146 = 60 7001 13 13	
.078" Base Taper Tab	
156 = 60 7001 18 13	
Wire wrapping (.026 x .062 x .600")	
163 = 60 7001 19 13	
.098" Base Taper Tab w/Wire Hole	
165 = 60 7001 20 13	
Forked Tail Solder Termination for Bus Line Connection (.056 x .125" Slot)	
166 = 60 7001 20 23	
Dual Solder Termination for 2 Wires or Bus Line (.056 x .125" Slot)	
189 = 60 7004 02 13	
Conventional Solder Termination for 3 Wires	

Card Slot	Card Guides	Code
1/16"	Yes	001
	No	002

Connector Description	No. of Positions				
	17	23	29	35	41
With Guides - for 1/16" Card	X	X	X	X	X
Without Guides - for 1/16" /Card	X	X	X	X	X

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #331. Visit our website <http://www.avxcorp.com>

Series 7022 – 0.100" Staggered Dual Row**ORDERING CODE**

00

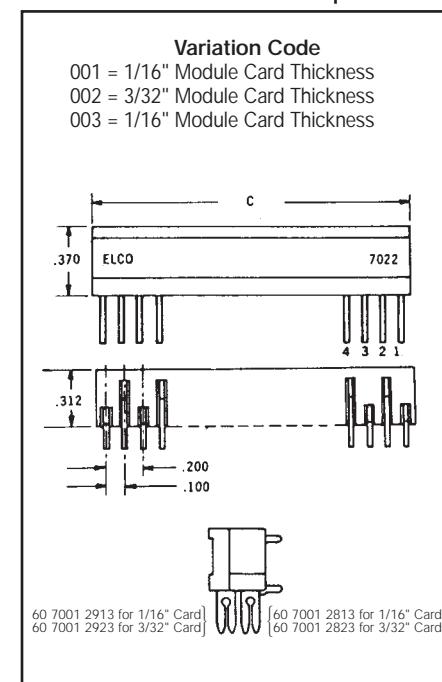
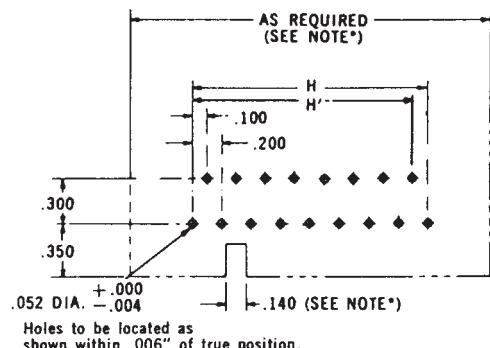
7022

0XX

000

00X

Number of Positions
017, 023, 029, 035, 041
For Series 7008 receptacle

MOUNTING LAYOUT

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #332. Visit our website <http://www.avxcorp.com>

ELCO

Series 7023 – 0.100" Staggered Dual Row

00
T7023
T0XX
T000
T001
T

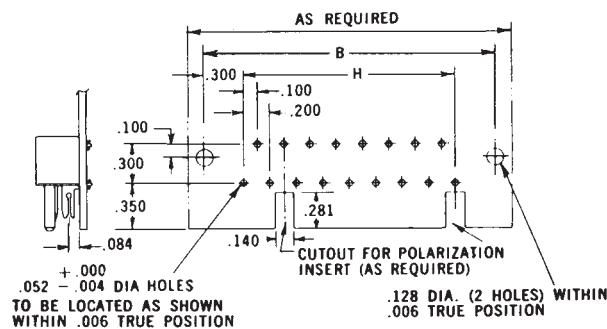
Number of Positions
017, 023, 029, 035, 041, 047

Diallyl Phthalate Glass Filled		
1/16" Card	3/32" Card	1/16" Card
001	002	003
110*	111*	

*Conforms to MIL-C-21097

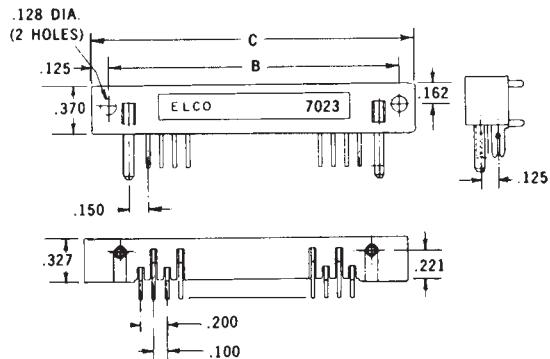
Contacts used in this connector:		
Card	Upper Card Contacts	Lower Card Contacts
1/16"	60 7001 29 13	60 7001 28 13
3/32"	60 7001 29 23	60 7001 28 23

Mounting Layout

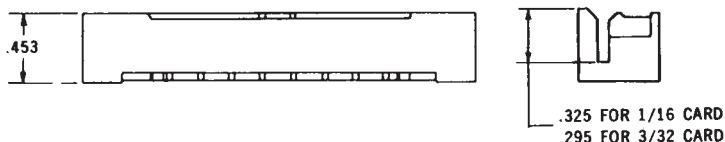
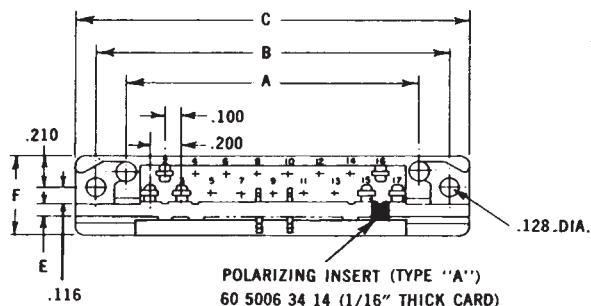


Dimensions: millimeters (inches)

Number of Positions	B	C Max.	H
17	2.200 (0.087)	2.470 (0.097)	1.600 (0.063)
23	2.800 (0.110)	3.070 (0.121)	2.200 (0.087)
29	3.400 (0.134)	3.670 (0.144)	2.800 (0.110)
35	4.000 (0.157)	4.270 (0.168)	3.400 (0.134)
41	4.600 (0.181)	4.870 (0.192)	4.000 (0.157)
47	5.200 (0.205)	5.470 (0.215)	4.600 (0.181)



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #333. Visit our website <http://www.avxcorp.com>

Series 7024 – 0.100" Staggered Dual Row**ORDERING CODE**

00

7024

023

163

001

Number of Positions
017, 023, 029, 035, 041Contact Code
See tableVariation Code
001 = 1/16" Thick Card
002 = 3/32" Thick Card
110* = 1/16" Thick Card
111* = 3/32" Thick Card* For Conformance to
MIL-C-21097B

141 = 60 7001 06 33	
P.C. Termination for 1/8" Card	
146 = 60 7001 13 13	
.078" Base Taper Tab	
156 = 60 7001 18 13	
Wire wrapping (.026 x .062 x .600")	
163 = 60 7001 19 13	
.098" Base Taper Tab w/Wire Hole	
165 = 60 7001 20 13	
Forked Tail Solder Termination for Bus Line Connection (.056 x .125" Slot)	
166 = 60 7001 20 23	
Dual Solder Termination for 2 Wires or Bus Line (.056 x .125" Slot)	
189 = 60 7004 02 13	
Conventional Solder Termination for 3 Wires	

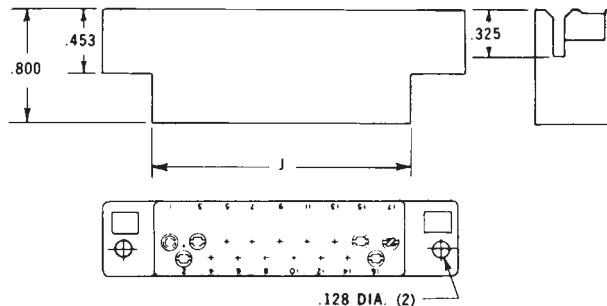
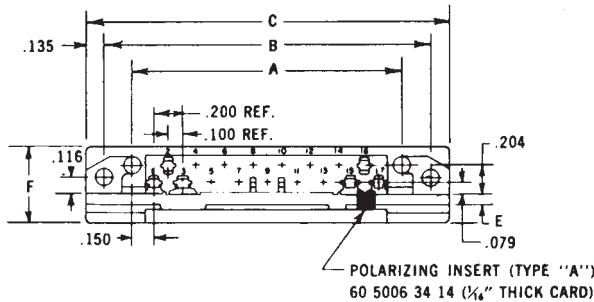
Connector Description	Availability				
	17	23	29	35	41
For 1/16" Card	X	X	X	X	X
For 3/32" Card	X	X	X	X	X

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #334. Visit our website <http://www.avxcorp.com>

Rack and Panel Connectors - Varicon®

Series 7038 – 0.100"

Staggered Dual Row, Crimp Contacts



ORDERING CODE

00

7038

0XX

Number of Contacts
017, 023, 029,
035, 041, 047

XXX

Contact Code
See table

XXX

Variation Code

001 = 1/16" Thick Card
002 = 3/32" Thick Card
110* = 1/16" Thick Card
111* = 3/32" Thick Card

* For Conformance to
MIL-C-21097

217 = 60 8017 05 13 Wire Hole	
218 = 60 8017 06 13 Solderless Wrap Tail - .025" x .050" x .567"	
750 = 60 8017 06 23 Solderless Wrap Tail - .025" x .050" x .760"	
296 = 60 8017 06 33 Solderless Wrap Tail - .025" x .025" x .580"	
504 = 60 8017 06 63 Solderless Wrap Tail - .025" x .025" x .170"	
*000 = 60 8017 03 13 Wire Crimp Tail (Contacts Loose) 18-26 AWG	
*000 = 60 8017 03 23 Wire Crimp Tail (Contacts on a Reel) 18-26 AWG	

*Order separately by part number, refer to page 22

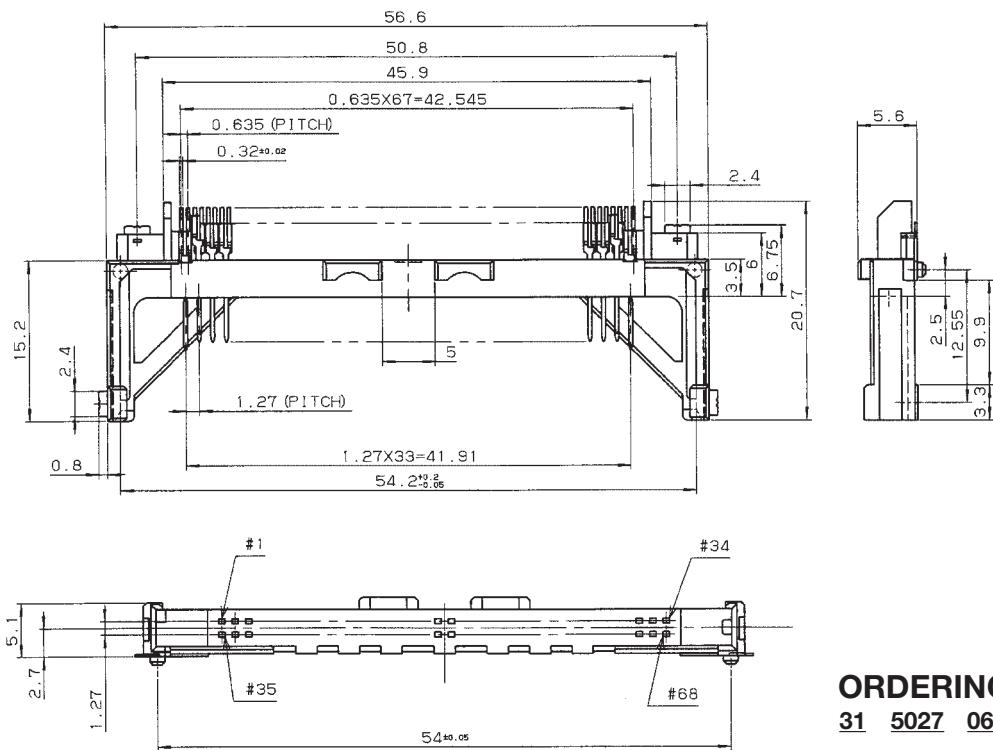
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #335. Visit our website <http://www.avxcorp.com>

Memory Card Connectors



	PCMCIA Series	Compact Flash Series	MMC Series	Smart Card Series	SO-DIMM
Plug/Ejector	5025 5027	5610 5620	5038	5033	
Receptacles	5069 9170	5611			
Frames/Covers	9170	5612			
I/O Plug	9157				
Memory Module					6400

Series 5027 – Card BUS SMT Connector



ORDERING CODE

31 5027 068 540 833

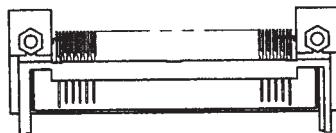
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #336. Visit our website <http://www.avxcorp.com>

ELCO

Memory Card Connectors



Series 5025 – PCMCIA (Single) Connector/Ejector

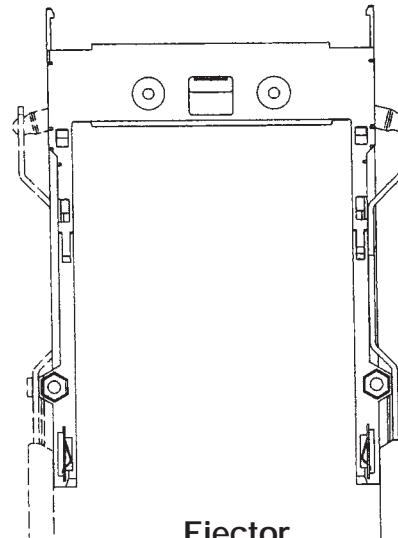


SMT TYPE



DIP TYPE

Connector



LEFT SIDE

RIGHT SIDE

Ejector

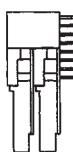
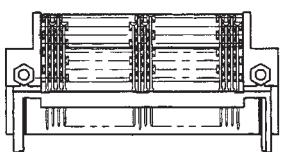
Single SMT

Stand Off Keying	Button Side	Connector	Ejector
Height = 0.5v. Normal	Left	31 5025 068 305 833	30 5025 000 321 000
	Right	31 5025 068 305 833	30 5025 000 322 000
Height = 0.5v. Reverse	Left	31 5025 068 355 833	30 5025 000 321 000
	Right	31 5025 068 355 833	30 5025 000 322 000

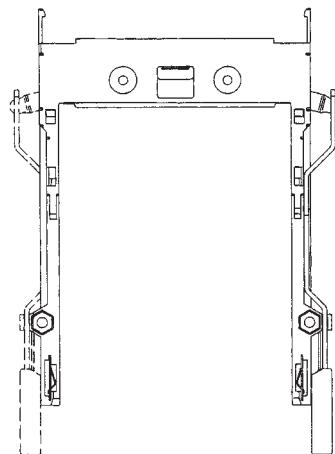
Single DIP

Stand Off Keying	Button Side	Connector	Ejector
Height = 0.5v. Normal	Left	31 5025 068 100 833	30 5025 000 321 000
	Right	31 5025 068 100 833	30 5025 000 322 000
Height = 0.5v. Reverse	Left	31 5025 068 150 833	30 5025 000 321 000
	Right	31 5025 068 150 833	30 5025 000 322 000

Series 5025 – PCMCIA (Dual) Connector/Ejector



Connector



LEFT SIDE

RIGHT SIDE

Ejector

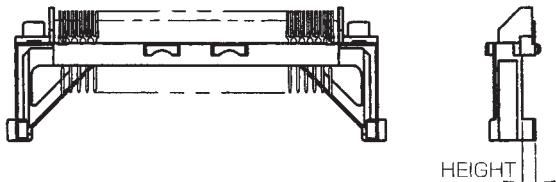
Dual DIP/DIP

Stand Off Keying	Button Side	Connector	Ejector
Height = 0.5v. Normal	Left/Left	31 5025 136 500 833	30 5025 000 621 000
	Right/Right	31 5025 136 500 833	30 5025 000 622 000
	Left/Right	31 5025 136 500 833	30 5025 000 623 000
	Right/Left	31 5025 136 500 833	30 5025 000 624 000
Height = 0.5v. Reverse	Left/Left	31 5025 136 550 833	30 5025 000 621 000
	Right/Right	31 5025 136 550 833	30 5025 000 622 000
	Left/Right	31 5025 136 550 833	30 5025 000 623 000
	Right/Left	31 5025 136 550 833	30 5025 000 624 000

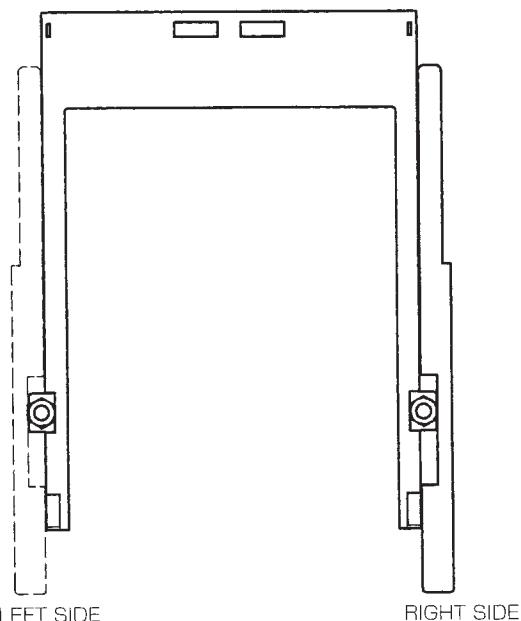
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #337. Visit our website <http://www.avxcorp.com>

Memory Card Connectors

Series 5027 – PCMCIA Connector/Ejector



Connector

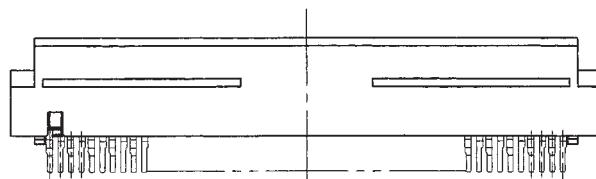


Ejector

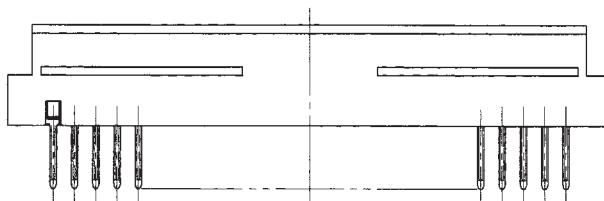
Stand Off Keying	Button Side	Connector	Ejector
Height = 0.5v. Normal	Left Side	31 5027 068 010 833	30 5027 000 001 000
	Right Side	31 5027 068 010 833	30 5027 000 002 000
Height = 0.5v. Reverse	Left Side	31 5027 068 020 833	30 5027 000 001 000
	Right Side	31 5027 068 020 833	30 5027 000 002 000
Height = 0.3.3v. Normal	Left Side	31 5027 068 030 833	30 5027 000 001 000
	Right Side	31 5027 068 030 833	30 5027 000 002 000
Height = 0.3.3v. Reverse	Left Side	31 5027 068 040 833	30 5027 000 001 000
	Right Side	31 5027 068 040 833	30 5027 000 002 000
Height = 2.2 5v. Normal	Left Side	31 5027 068 110 833	30 5027 000 101 000
	Right Side	31 5027 068 110 833	30 5027 000 102 000
Height = 2.2 5v. Reverse	Left Side	31 5027 068 120 833	30 5027 000 101 000
	Right Side	31 5027 068 120 833	30 5027 000 102 000
Height = 2.2 3.3v. Normal	Left Side	31 5027 068 130 833	30 5027 000 101 000
	Right Side	31 5027 068 130 833	30 5027 000 102 000
Height = 2.2 3.3v. Reverse	Left Side	31 5027 068 140 833	30 5027 000 101 000
	Right Side	31 5027 068 140 833	30 5027 000 102 000

Series 5069 – PCMCIA Receptacle

SINGLE SIDE TALE



STRADDLE TALE



Series 5069

Solder Tail Style	Ordering Code	
Straddle	20 5069 068 003 833	Semi-Hard Tray
Single Side SMT	24 5069 068 901 835	Tape & Reel (72mm)

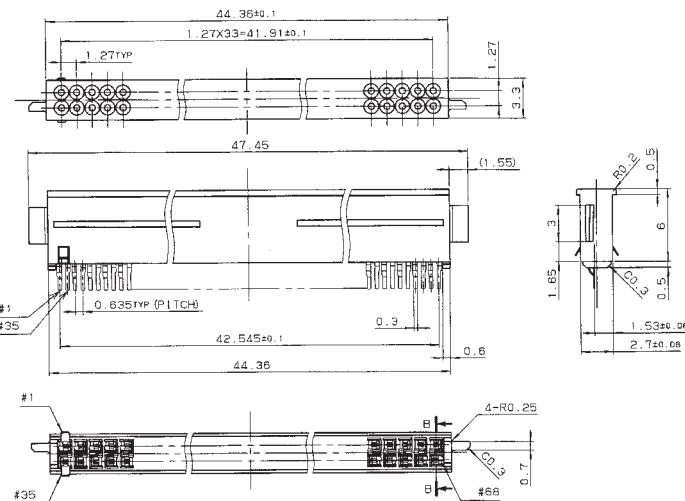
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #338. Visit our website <http://www.avxcorp.com>

ELCO

Memory Card Connectors



Series 5069 – PCMCIA Receptacle (Single Side)



ORDERING CODE

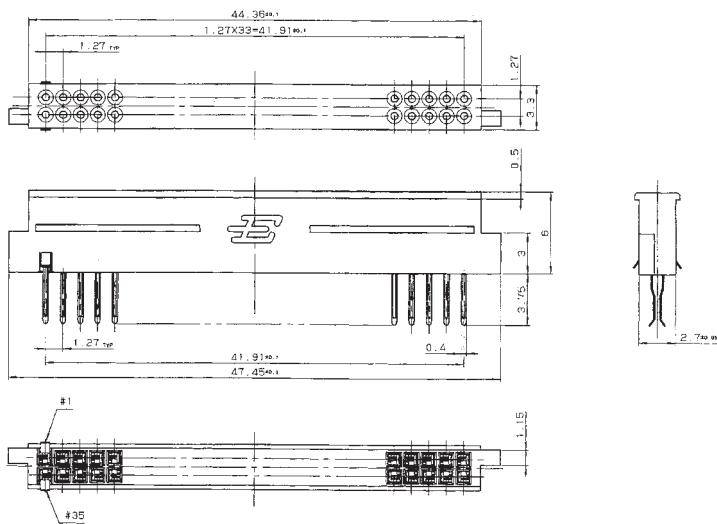
XX 5069 068 901 835

24 = TAPE AND REEL PACKAGE

Series 5069 – PCMCIA Receptacle (Straddle)

ORDERING CODE

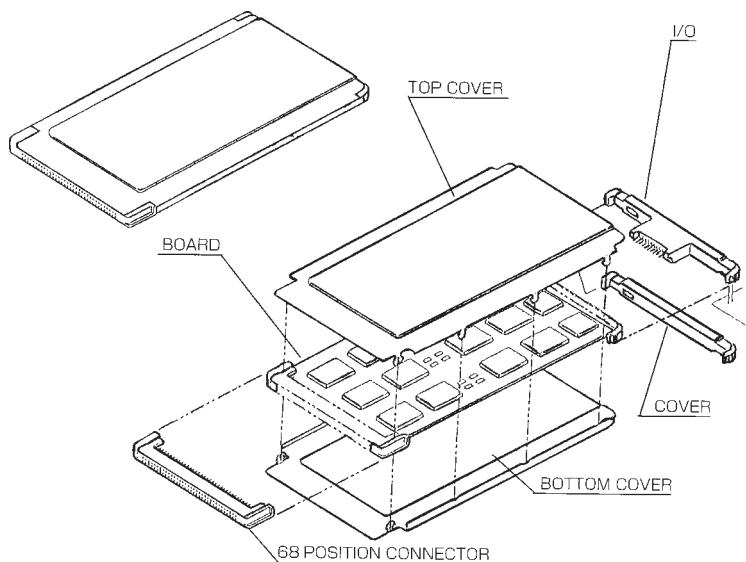
20 5069 068 003 833



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #339. Visit our website <http://www.avxcorp.com>

Memory Card Connectors

Series 9170 – Type II Frameless PCMCIA Card Kit



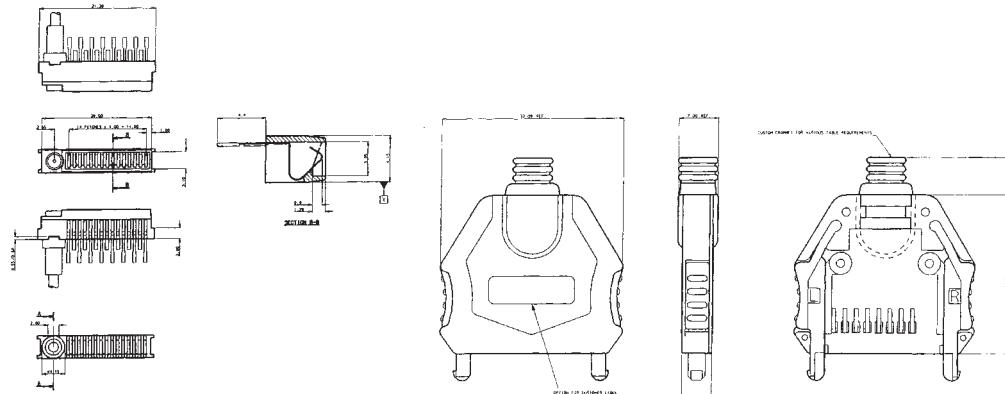
Also Available

- The 68 position Cardbus connector can be incorporated in Elco Frameless Kit Concept
- The Cardbus connector will allow engineers to increase the speed of the actual card.
- Dual I/O connectors capabilities for fax/modem applications.
- Combinations of 4, 7 and 15 ways can be mounted.
- Your existing I/O connectors can be mounted allowing you to make full use of your existing cab assemblies.
- I/O connectors can also be customized to suit individual applications thus allow coax, antenna, LED's etc, to be mounted.
- Extended cards that utilize the frameless kit concept - for WLAN market.
- The plastic bulge element can be customized to suit individual applications which can be metal coated if required.
- Extended bulge parts can also be mounted on a fully metalised bottom cover.

Selection Guide Frameless Kit Type II

Kit Part Number	Kit Consists Of		
	68 Position	Covers	I/O
Blank I/O Can be supplied with special cut-outs	20-9170-068-001-xxx	Top 80-9170-4000-00-000 Bottom 80-9170-4100-00-000	22-9170-000-0
15 way without co-axial	20-9170-068-001-xxx	Top 80-9170-4000-00-000 Bottom 80-9170-4100-00-000	21-9170-015-001-xxx
15 way with co-axial	20-9170-068-001-xxx	Top 80-9170-4000-00-000 Bottom 80-9170-4100-00-000	21-9170-015-002-xxx

Series 9157 – I/O PCMCIA Card Plug



Interconnection Assembly (Plug/Covers) Selection Guide

	15 Way Plug	Covers
Without co-axial	58 9157 015 000 004	58 9157 000 000 00x
With co-axial	58 9157 015 000 003	58 9157 000 000 00x

Grommet Options
00x-7 = 5mm Diameter
8 = 3.5mm Diameter

Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #340. Visit our website <http://www.avxcorp.com>

ELCO

Memory Card Connectors



Series 5610 – Compact Flash Type I Header (Zero Stand Off)

Connector

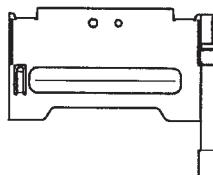


Stand Off H=2.2mm

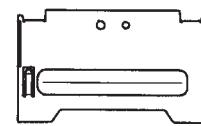
Ejector



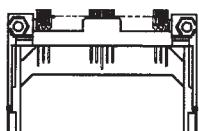
LEFT STRAIGHT BUTTON



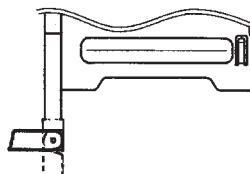
RIGHT STRAIGHT BUTTON



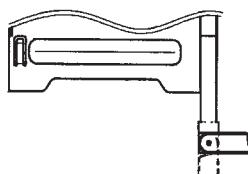
WITHOUT BUTTON



Stand Off H=0mm



LEFT FOLDABLE BUTTON



RIGHT FOLDABLE BUTTON

Connector

Stand Off	Keying	Connector
Height = 0	normal	31 5610 050 500 833
	reverse	31 5610 050 550 833
Height = 2.2	normal	31 5610 050 210 833
	reverse	31 5610 050 260 833

Ejector and Connector

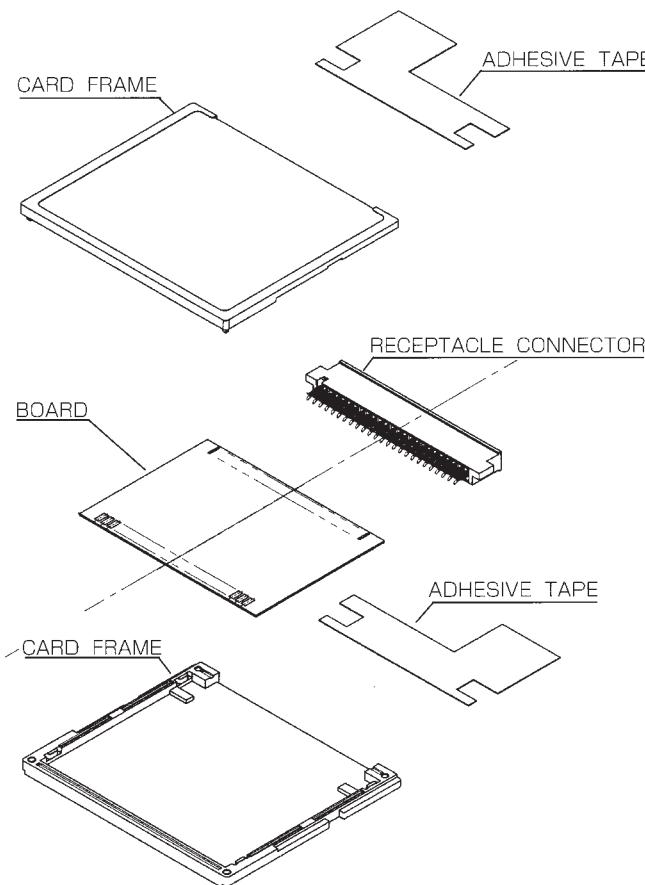
Connector Style	Ejector Style	Ordering Code			
		Stand Off Keying	Button Side	Connector	Ejector
Height = 0 Normal	Straight	Normal	Left	31 5610 050 500 833	30 5610 000 001 000
			Right	31 5610 050 500 833	30 5610 000 002 000
	Foldable	Normal	Left	31 5610 050 500 833	30 5610 000 005 000
			Right	31 5610 050 500 833	30 5610 000 006 000
Height = 0 Reverse	Straight	Reverse	Left	31 5610 050 550 833	30 5610 000 001 000
			Right	31 5610 050 550 833	30 5610 000 002 000
	Foldable	Reverse	Left	31 5610 050 550 833	30 5610 000 005 000
			Right	31 5610 050 550 833	30 5610 000 006 000
Height = 2.2 Normal	Straight	Normal	Left	31 5610 050 210 833	30 5610 000 001 000
			Right	31 5610 050 210 833	30 5610 000 002 000
	Foldable	Normal	Left	31 5610 050 210 833	30 5610 000 005 000
			Right	31 5610 050 210 833	30 5610 000 006 000
Height = 2.2 Reverse	Straight	Reverse	Left	31 5610 050 260 833	30 5610 000 001 000
			Right	31 5610 050 260 833	30 5610 000 002 000
	Foldable	Reverse	Left	31 5610 050 260 833	30 5610 000 005 000
			Right	31 5610 050 260 833	30 5610 000 006 000

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #341. Visit our website <http://www.avxcorp.com>

Memory Card Connectors



Series 5611/5612 – Compact Flash Connectors/Card Kits



Receptacle Connector Series 5611 (For Type I)

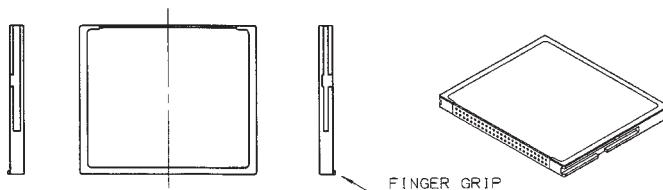
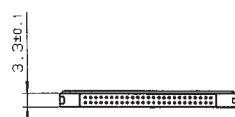
Solder Tail Style	Ordering Code
Straddle	20 5611 050 113 833
Single Side SMT	24 5611 050 114 835

Card Kit Series 5612 (For Type I)

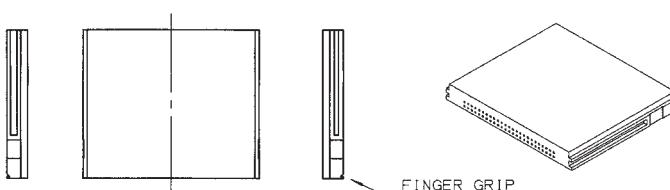
With Insulating Tape	10 5612 100 000 011
Without Insulating Tape	10 5612 100 000 012

Card Configuration

Type I



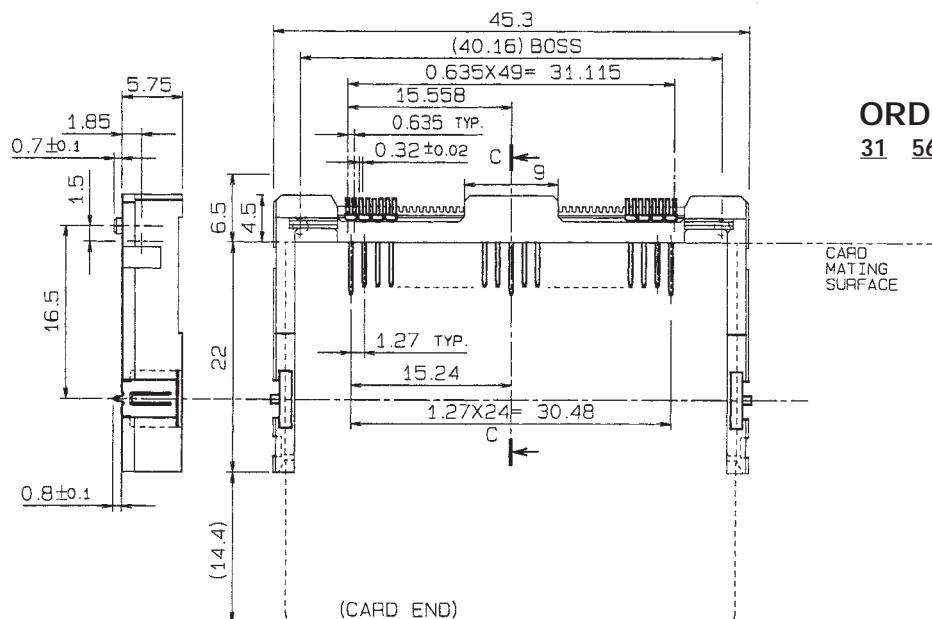
Type II



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #342. Visit our website <http://www.avxcorp.com>

Memory Card Connectors

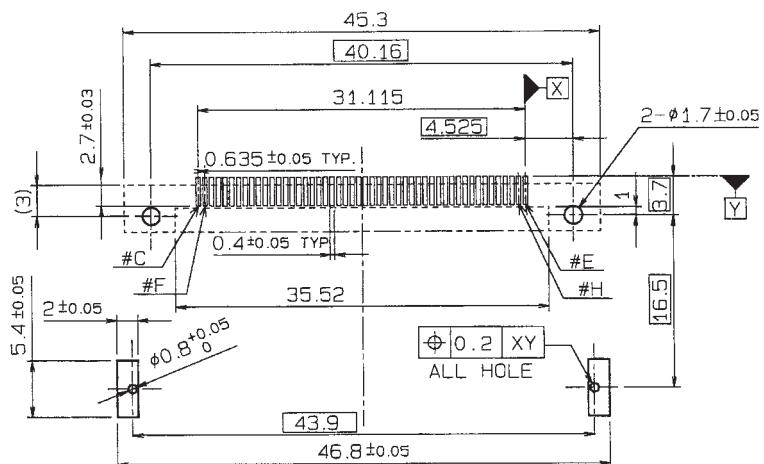
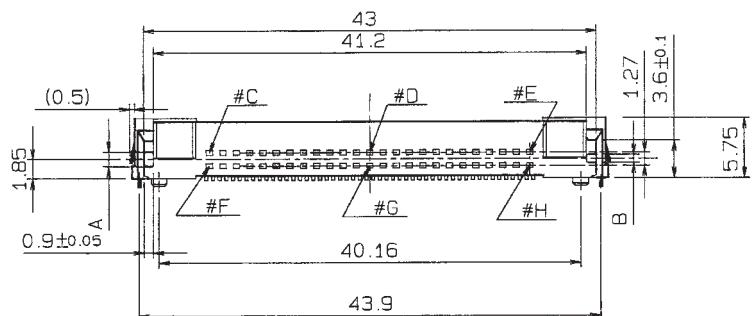
Series 5620 - Compact Flash Type II Header



ORDERING CODE
31 5620 050 116 833

Recommended Printed Circuit Layout

Keying	A	B	C	D	E	F	G	H
Normal	1.4	0.78	#1	#13	#25	#26	#38	#50

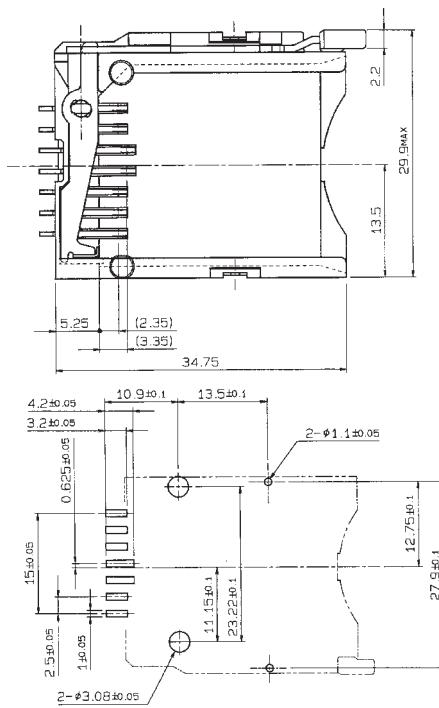
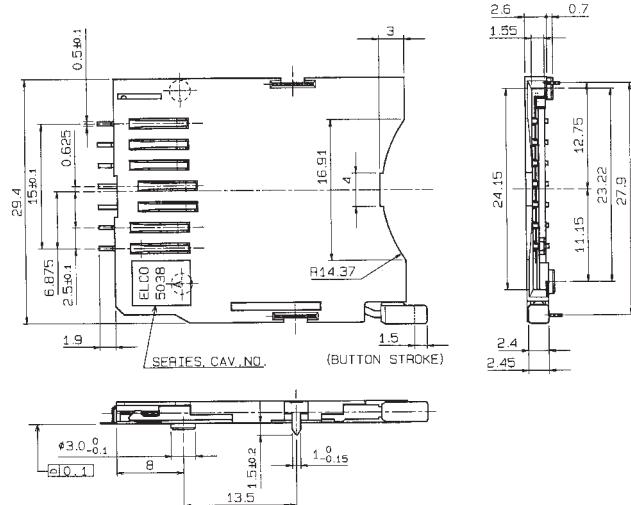


Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #343. Visit our website <http://www.avxcorp.com>



Memory Card Connectors

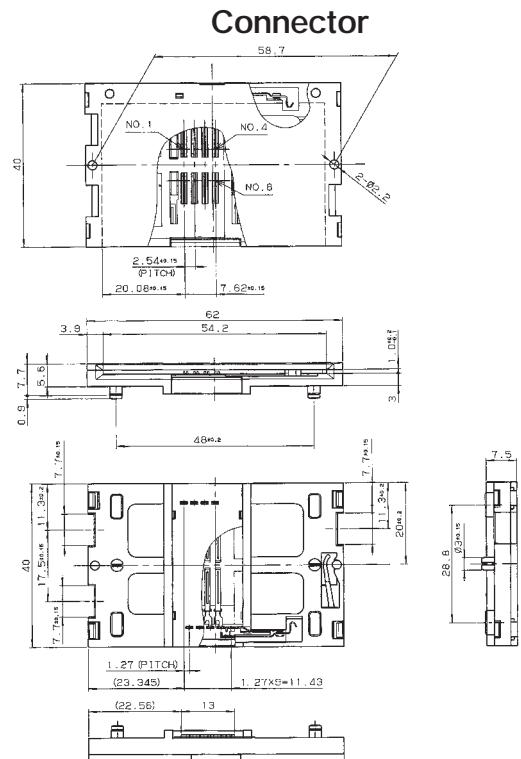
Series 5038 – MMC (Multimedia Card)



ORDERING CODE

10 5038 007 052 833

Series 5033 – (Smart Card)

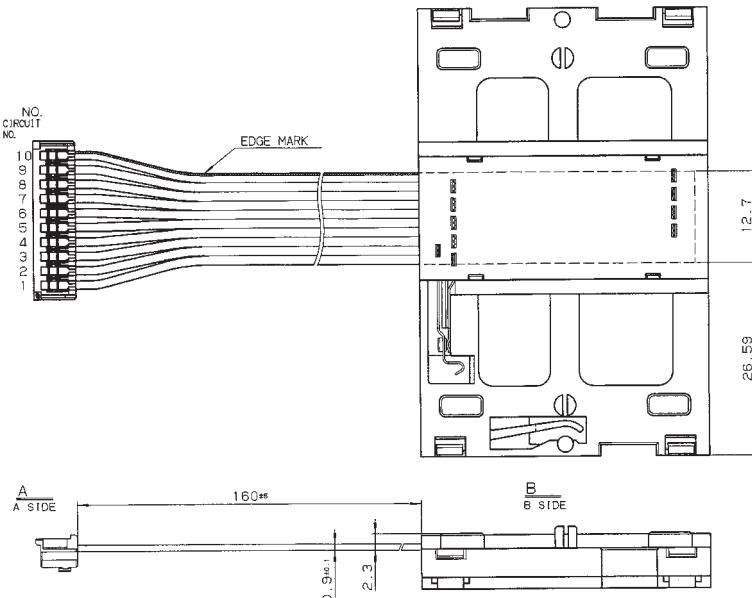


ORDERING CODE

97 5033 008 XXX 001

050 = Harness 50mm
160 = Harness 160mm

Harness



ORDERING CODE

97 5033 008 160 001

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #344. Visit our website <http://www.avxcorp.com>

ELCO

Memory Card Connectors



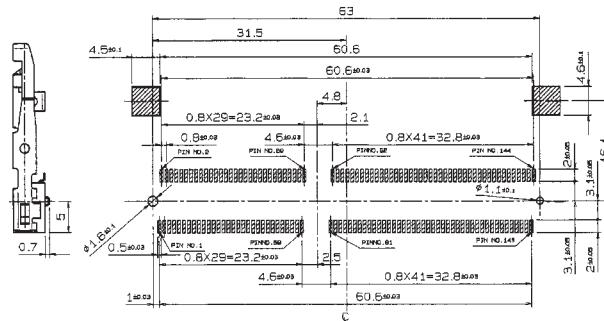
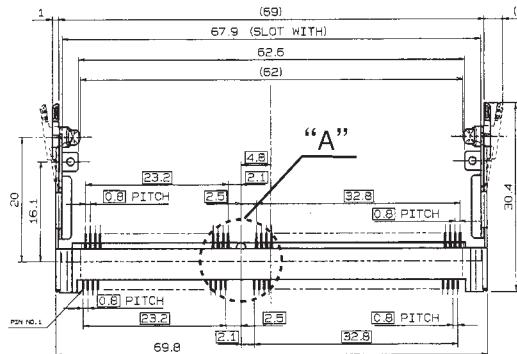
Series 6400 – 0.8mm Pitch – SO-DIMM 144 Pin (2x Strain Relief)



ORDERING CODE

20 6400 144 101 8XX

FINISHING CODE
856 = Au 0.1µm
861 = Au 0.25µm



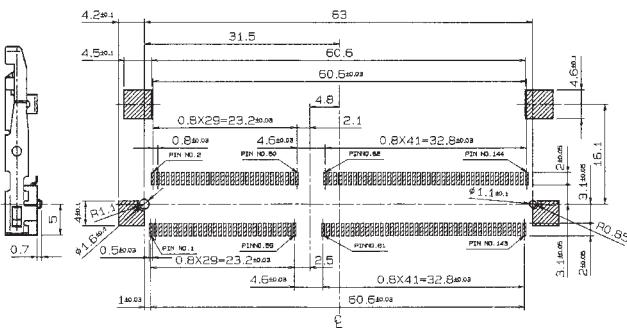
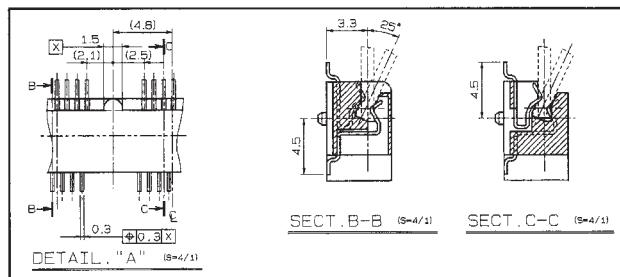
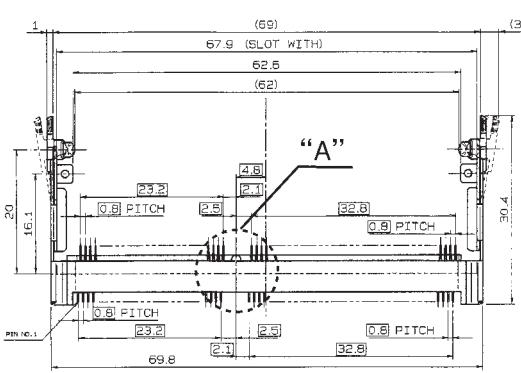
Series 6400 – 0.8mm Pitch – SO-DIMM 144 Pin (4x Strain Relief)



ORDERING CODE

20 6400 144 001 8XX

FINISHING CODE
856 = Au 0.1µm
861 = Au 0.25µm



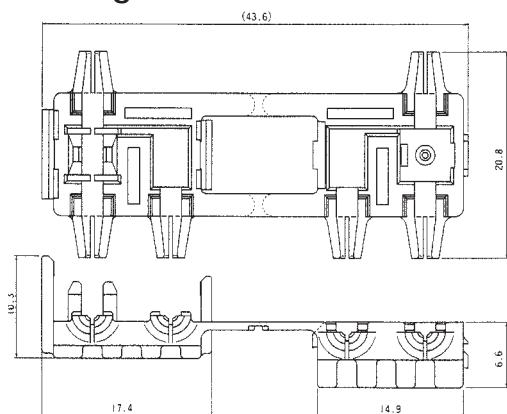
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #345. Visit our website <http://www.avxcorp.com>

Automotive Splashproof Connectors

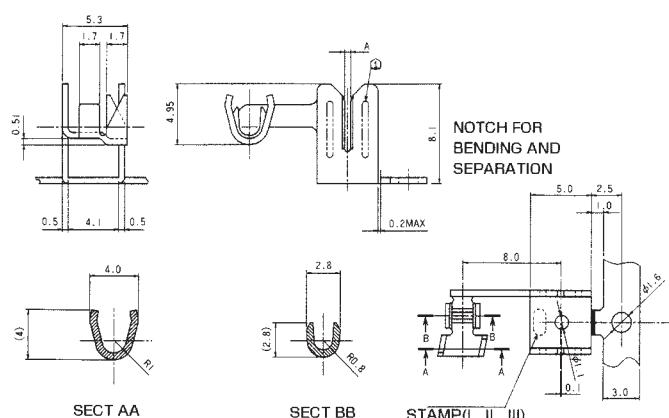


Series 9215 – Branch Connectors

Housing



Contact

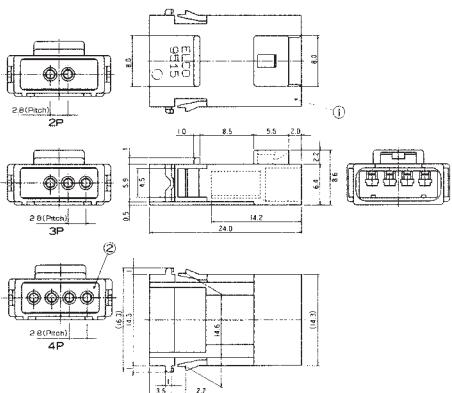


ORDERING CODE

60 9215 001 010 00X
VARIATION CODE
0 = 0.85sq (white)
1 = 0.5sq (black)
6 = 0.3sq (blue)

Series 9515 Connectors

Plug



PLUG HOUSING ORDERING CODE

61 9515 004 000 001

HARD SEAL (B) ORDERING CODE

92 9515 004 XXX XXX

NUMBER OF POSITIONS - Color
012 002 = (2P/Blue), 013 003 = (3P/Yellow), 014 004 = (4P/Red)

TOOLING

Auto Crimping Machine	
Press Machine	36 1004 001
Applicator	36 1000 044
Press Capacity	2 (tons)
Dimension	W550xH700xD380
Weight	85kg
Power	AC100V 50/60Hz

PLUG CONTACT ORDERING CODE

71 9515 999 010 808

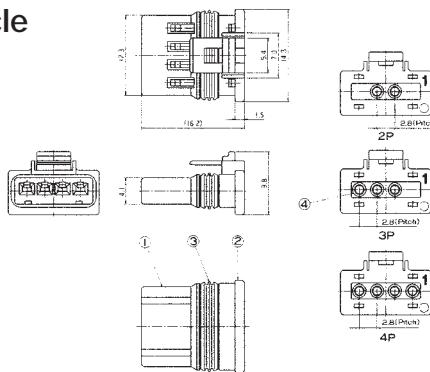
RECEPTACLE CONTACT ORDERING CODE

72 9515 999 020 808

ORDERING CODE

70 9215 999 00X 825
VARIATION CODE (IDC)
0 = 0.5sq
1 = 0.85sq
2 = 0.3sq
AVS 0.5 (Crimping side area)

Receptacle



RECEPTACLE HOUSING ORDERING CODE

62 9515 004 010 001

CAP ORDERING CODE

62 9515 004 020 001

HARD SEAL (A) ORDERING CODE

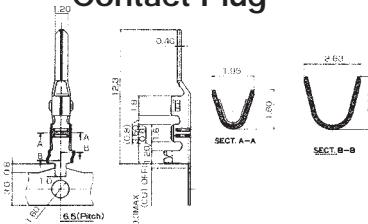
92 9515 004 000 003

HARD SEAL (C) ORDERING CODE

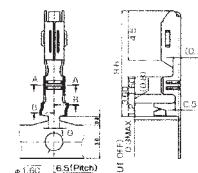
92 9515 004 XXX XXX

NUMBER OF POSITIONS
002 002 = (2P) 003 003 = (3P) 004 004 = (4P)

Contact Plug

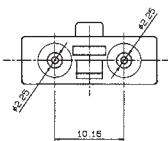
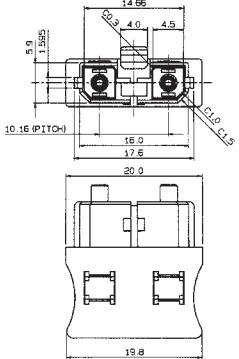
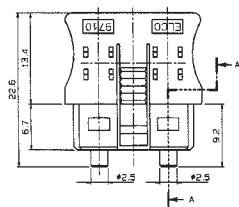


Receptacle



Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #346. Visit our website <http://www.avxcorp.com>

Plastic Optical Fiber (POF) Connector Series 9710

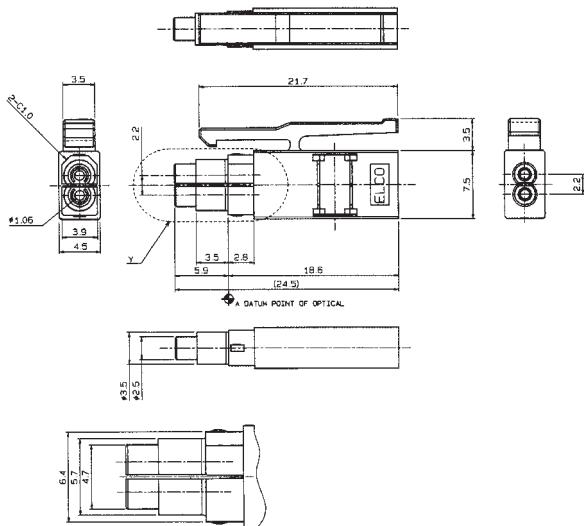


ORDERING CODE

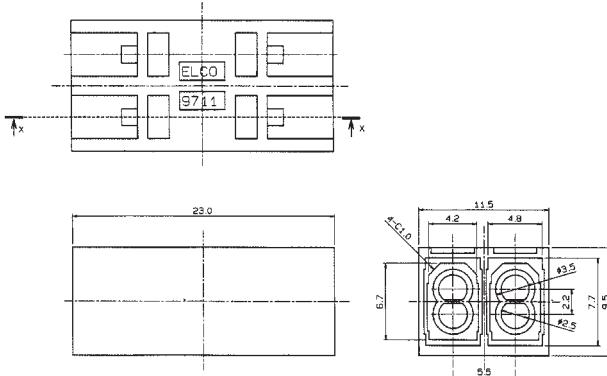
Part No. 61 9710 002 001 001

Series 9711 SP Connector

Plug



Adaptor



ORDERING CODE

PLUG	Part No.	<u>61</u>	<u>9711</u>	<u>002</u>	<u>001</u>	<u>001</u>
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ADAPTOR	Part No.	<u>60</u>	<u>9711</u>	<u>004</u>	<u>101</u>	<u>001</u>
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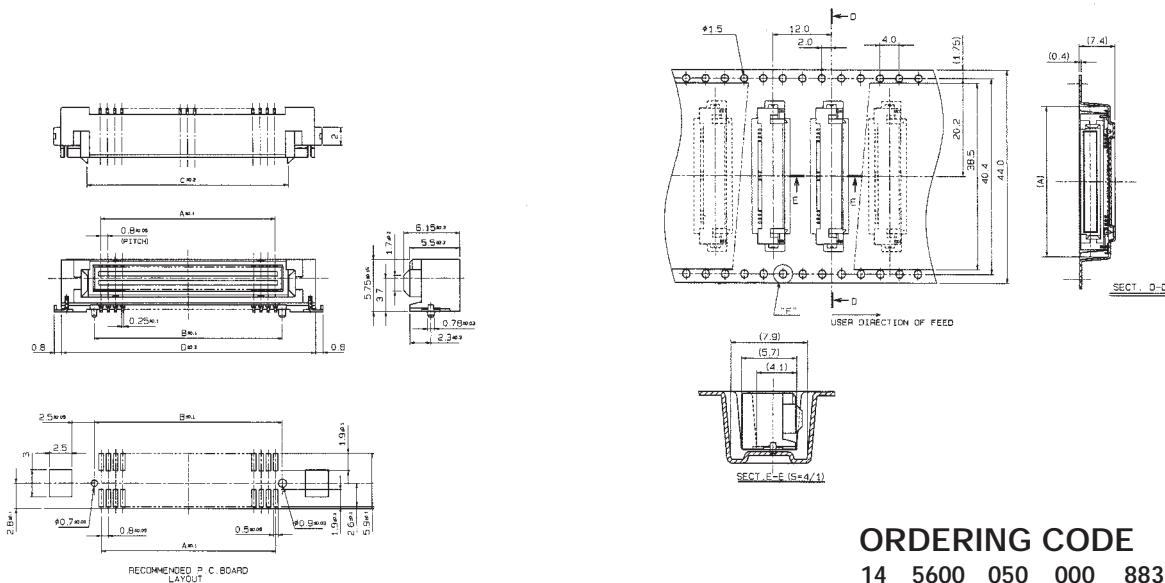
Additional information on this product is available from AVX's catalog or AVX's FAX Service.
Call 1-800-879-1613 and request document #347. Visit our website <http://www.avxcorp.com>

ELCO

CD ROM/HDD Connectors



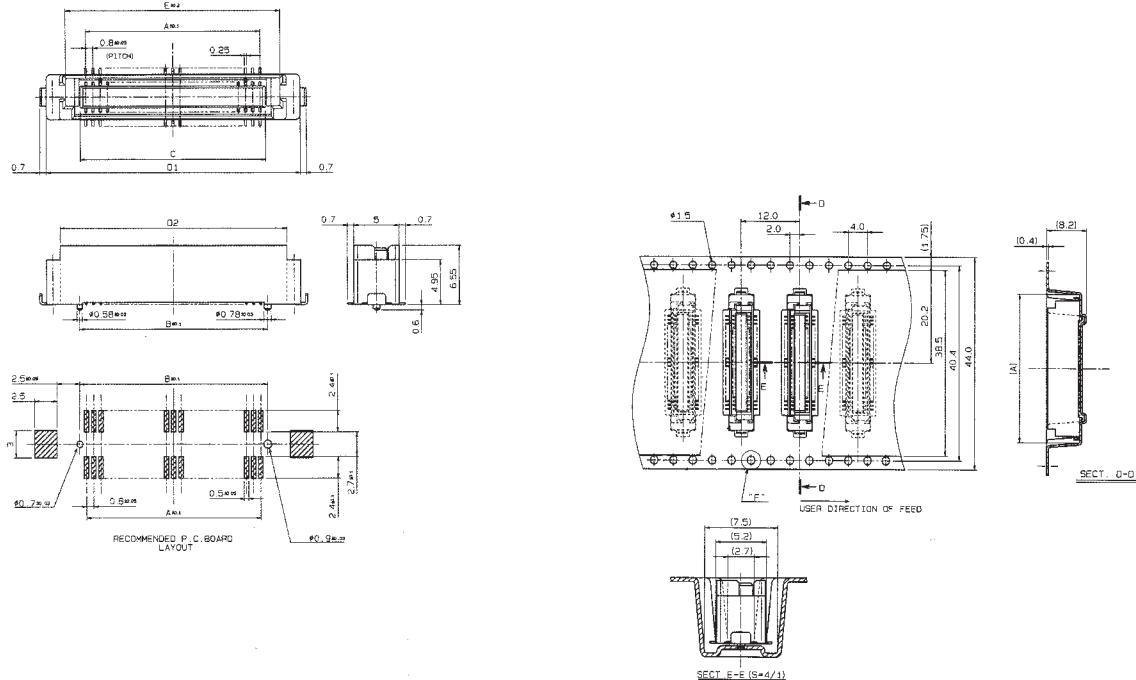
Series 5600 – 0.8mm Pitch 50 Position Plug



ORDERING CODE

14 5600 050 000 883

Series 5600 – 0.8mm Pitch 50 Position Receptacle



ORDERING CODE

24 5600 050 100 883

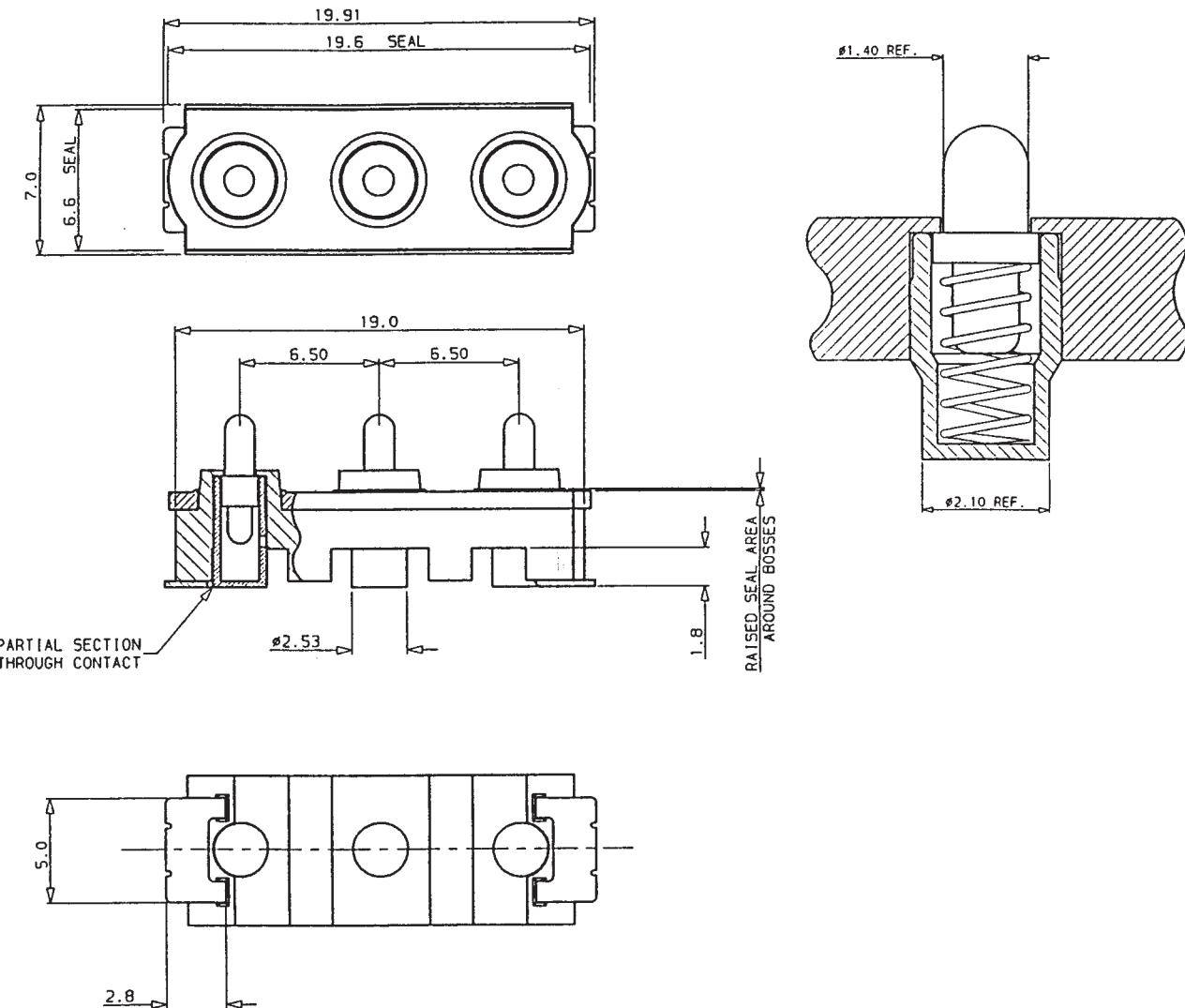
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #348. Visit our website <http://www.avxcorp.com>

Telecom Connectors



Series 9156 – POGO Pin Battery Connector

(3 position example)



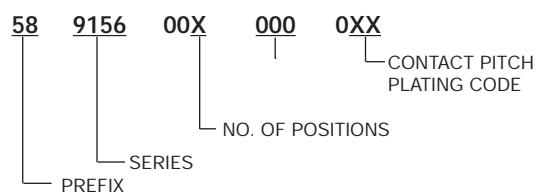
Features

- Nose heights optional
- 2, 3, 4, 5 way available, custom options available
- Contact pitch optional
- Current rating typically 3A
- Gold and Tin plated contacts

Examples

No. of Ways	Nose Height mm	Contact Pitch mm	Current Rating Amps
2	1.5	4.0	3
3	2.2	6.5	3
4	1.5 to 2.6	4.0	3

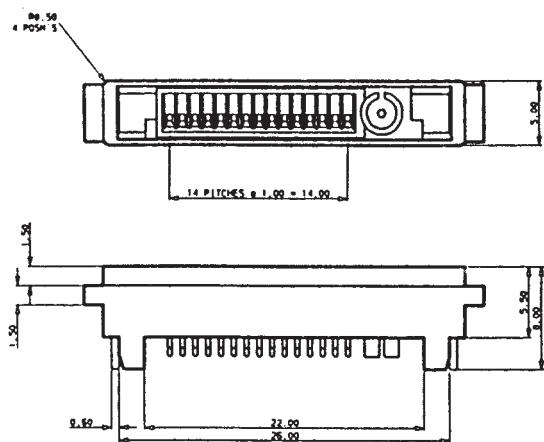
ORDERING CODE



Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #349. Visit our website <http://www.avxcorp.com>

Telecom Connectors

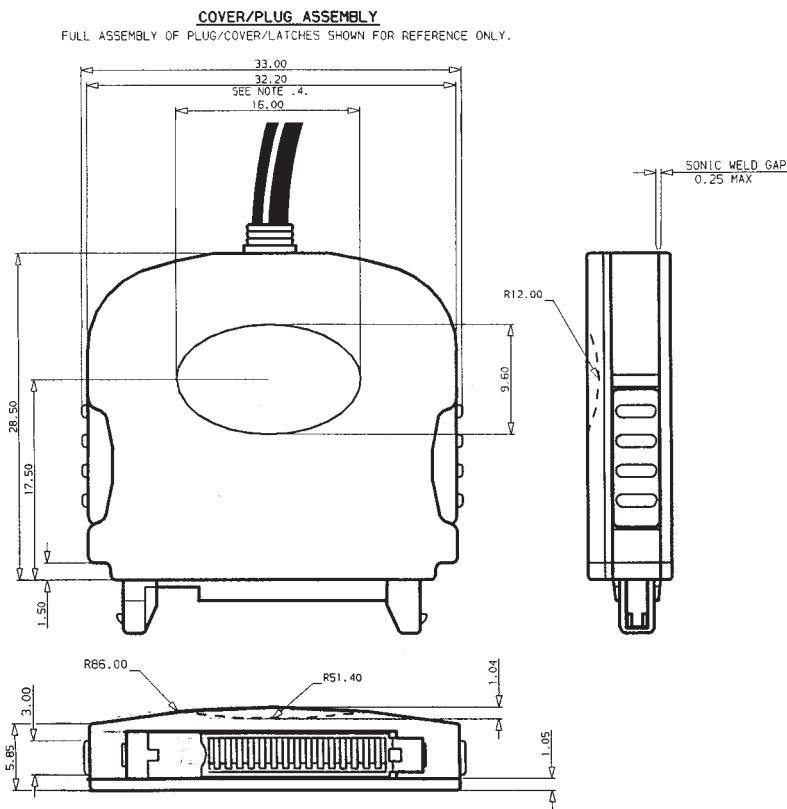
Series 9157 – I/O Socket



Features

- > 10,000 mating cycles
- Optional 50 mohm coax
- SMT contacts
- Retention brackets

Series 9157 – I/O Plug



Features

- > 10,000 mating cycles
- Optional coax
- 10/15 contacts

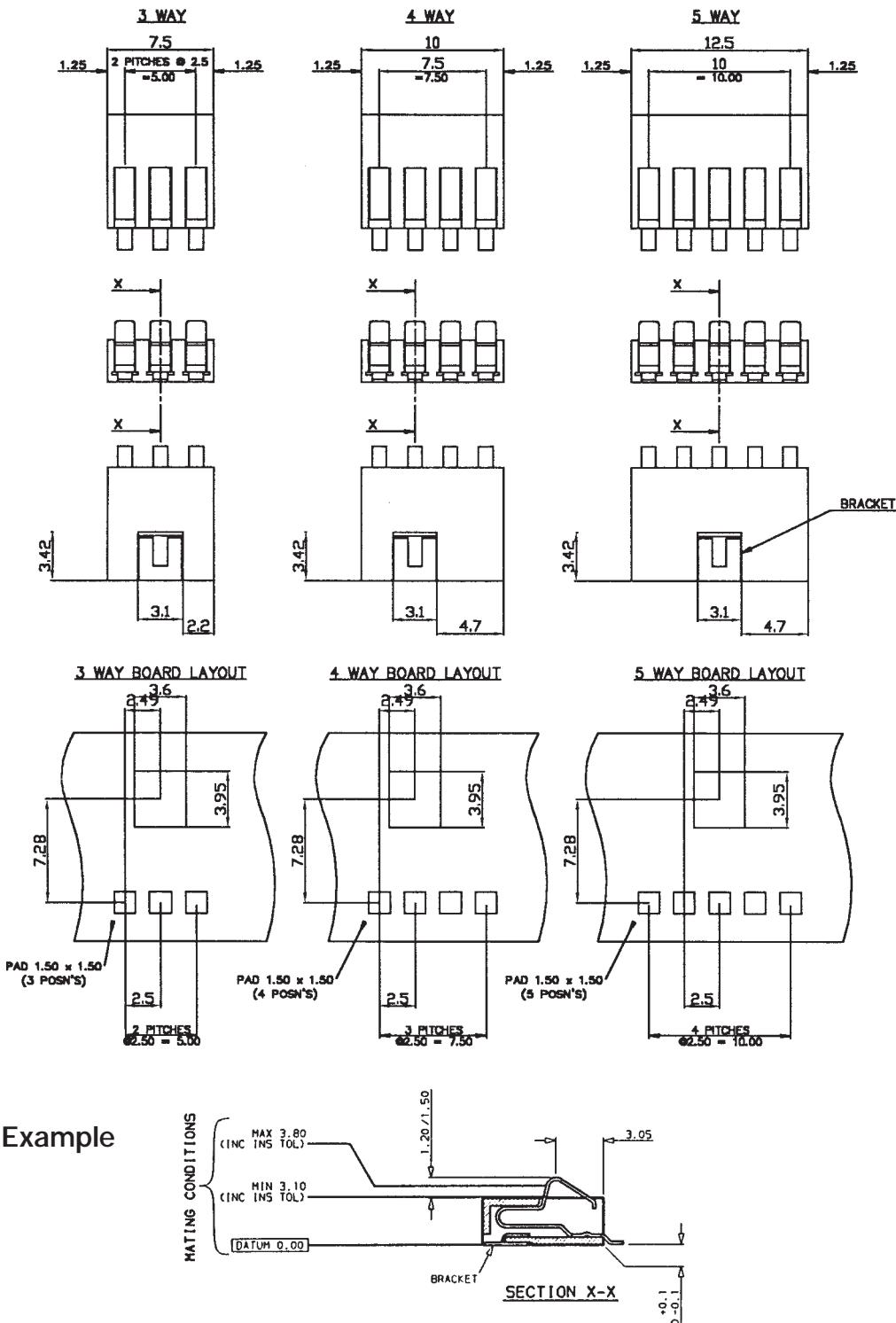
Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #350. Visit our website <http://www.avxcorp.com>

ELCO

Telecom Connectors



Series 9155 – (3, 4 and 5 Position) Battery Connector



Features

- Nose heights between 1.2 and 2.6mm
- 3, 4 and 5 way options
- 2.5 contact pitch standard
- Custom options available
- Current rating typically 3A
- Gold and Tin plated contacts

No. of Ways	Nose Height mm	Contact Pitch mm	Current Rating Amps
3	1.2 to 2.6	2.5	3
4	1.2 to 2.6	2.5/3.0	3
5	1.2 to 2.6	2.5	3

ORDERING CODE

58 9155 00X 000 OXX

— — — — —

SERIES PREFIX NO. OF POSITIONS CONTACT PITCH PLATING CODE

Additional information on this product is available from AVX's catalog or AVX's FAX Service. Call 1-800-879-1613 and request document #351. Visit our website <http://www.avxcorp.com>