





Description	Designator	Footprint	Quantity	Manufacturer	Manufacturer Part Number	Supplier 1	Supplier Part Number 1	Comment	Case/Package
CERAMIC CAPACITOR, 10UF, 16V, XSR, 20%, 0805, FULL REEL: Product Range: C Series; Capacitance: 10 F; Tolerance: 20%; Dielectric Characteristic: XSR; Voltage Rating: 16V; Ceramic Capacitor Case: 0805 [2012 Metric]; MSL: - RoHS Compliant: Yes	C1	CAP_0805	1	TDK	C2012X5R1C106M125AC	Digi-Key	445-4115-1-ND	10uF	0805
C Series 1206 100 uF 10 V ±20 % Tolerance JB SMT Multilayer Ceramic Capacitor	C2	CAP3216	1	TDK	C3216JB1A107M160AC	Arrow Electronics	C3216JB1A107M160AC	100uF 10V	1206
C Series 0805 0.1 uF 50 V ±10 % Tolerance X7R SMT Multilayer Ceramic Capacitor	C3, C4	CAP_0805	2	TDK	C2012X7R1H104K085AA	Avnet	87R4037	100nF	0805
C Series 0805 0.1 uF 250 V ±20 % Tolerance X7T SMT Multilayer Ceramic Capacitor	C5	CAP_0805	1					CAP 100 nF 250V	
VR-30V IF=200mA 10pF P=200mW	D1, D2, D3	SOD323		ON Semiconductor / Fairchild	BAT54HT1G	Newark	83H6419	BAT54HT1G	
Conn Unshrouded Header HDR 2 POS 2.54mm Solder ST Thru-Hole Poly Bag	J1, J2, J7	HDR 1x2		Amphenol ICC / FCI	75160-327-02LF	Avnet	75160-327-02LF	75160-327-02LF	
2-24 Poles, Screw Type, Horizontal, 5.08 Pitch, 26-12 (AWG), Terminal Block Connector	J3	CUI_TB010-508-02BE	1	CUI Devices	TB010-508-02BE	Arrow Electronics	TB010-508-02BE	TB010-508-02BE	
Phoenix Contact 5441540, BC-500X10-3 BK PCB terminal blo	J4	Screw 5mm 3 Terminal	1	Phoenix Contact	5441540	Mouser	651-5441540	400 V 13.5 A	
Conn Unshrouded Header HDR 3 POS 2.54mm Solder ST Top Entry Thru-Hole BergStik® Bulk	JP1, JP2	HDR 1x3		Amphenol ICC / FCI	68797-403HLF	Mouser	649-68797-403HLF	HDR 1x3	
Conn Unshrouded Header HDR 4 POS 2.54mm Solder ST Thru-Hole Bag	JP3	HDR 1X4	1	Amphenol ICC	68001-204HLF	Allied Electronics	70302499	HDR 1X4	
Transistor Bipolar (BJT) NPN 60V 100mA 225mW Surface Mount SOT-23-3	Q3	SOT23-3	1	ON Semiconductor	MMBT2484LT1G	RSComponents	7916126P	MMBT2484LT1G	SOT-23-3
三极管 2NPN Vce=40V Ic=200mA Pd=225mW	Q, Q1, Q2	SOT-363	3	Pan Jit	MMDT3904_R1_00001	Digi-Key	3757-MMDT3904_R1_0001CT-ND	NPN	
贴片电阻 1000Ω ± 1.00% 0.125W ± 100ppm/°C 0805	R1, R2, R4, R5, R6, R7, R9, R13, R15, R16, R19, R21	R_0805	12	Yageo	RC0805FR-071KL	Future Electronics	8126013	1K	0805
贴片电阻 560Ω ± 1.00% 0.125W ± 100ppm/°C 0805	R3, R10, R11, R12, R14, R17, R18, R20, R23, R24, R25	R_0805	11	Yageo	RC0805FR-07560RL	Avnet	RC0805FR-07560RL	560 R	0805
贴片电阻 100000Ω ± 1.00% 0.125W ± 100ppm/°C 0805	R8	R_0805	1	Yageo	RC0805FR-07100KL	Avnet	RC0805FR-07100KL	100K	0805
贴片电阻 10000Ω ± 1.00% 0.125W ± 100ppm/°C 0805	R22	R_0805	1	Yageo	RC0805FR-0710KL	Avnet	RC0805FR-0710KL	10K	0805
6-ch, 4.5-V to 5.5-V inverters with Schmitt-Trigger inputs 14-TSSOP-40 to 85	U1	14-TSSOP	1	Texas Instruments	SN74ACT14PW	Digi-Key	296-4369-1-ND	Inverter	TSSOP
Single 2-Input, 4.5-V to 5.5-V AND gate with TTL-compatible CMOS inputs 5-SOT-23-40 to 125	U2	SOT-23-5	1	Texas Instruments	SN74AHCT1G08DBV3	Digi-Key	296-SN74AHCT1G08DBV3CT-ND	SN74AHCT1G08DBV3	
AND Gate IC 2 Channel 14-SOIC	U3	SOIC 14	1	Texas Instruments	SN74HC21DR	Arrow Electronics	SN74HC21DR	SN74HC21DR	SOIC
CMOS Presettable Binary Up/Down Counter 16-SO -55 to 125	U4	SOIC 16	1	Texas Instruments	CD4516BNSR	Digi-Key	296-29362-1-ND	CD4516BNSR	SOP
Flip Flop JK-Type Pos Edge 1-Element 8-Pin TSSOP S/R	U5	8-TSSOP	1	ON Semiconductor	MC10EP35DTR2G	Mouser	863-MC10EP35DTR2G	MC10EP35DTR2G	TSSOP
TRIAC Standard 600V 16A Through Hole TO-220AB	U6	BAT16	1					BTA16-600BRG	
DC-IN 1-CH Transistor With Base DC-OUT 6-Pin PDIP SMD	U7	SMD 6	1	Isocom	4N26XSM	RSComponents	1712953	4N26XSM	SMD/SMT