

Item #	Qty	Reference Designator	Description	Manufacturer	Part No.	Digikey Part No.
1	5	C1 C2 C5 C8 C10	Capacitor, Ceramic, 0.1uf, 10%, 50V, X7R	KEMET ELECTRONICS CORPORATION	C1206C104K5RACTU	399-1249-1-ND
2	2	C3 C4	Capacitor, Ceramic, 1uF, 100V, X7R, 1206	SAMSUNG ELECTRO-MECHANICS AMERICA, INC	CL31B105KCHSNNE	1276-2747-1-ND
3	1	C9	Capacitor, Ceramic, 1pF, 50V, NP0, 1206	SAMSUNG ELECTRO-MECHANICS AMERICA, INC	CL31C010CBCNNNC	1276-2796-1-ND
4	3	IC1 IC2 IC3	Relay, PhotoMOS, 600V	PANASONIC ELECTRIC WORKS	AQW216EHA	255-2671-ND
5	1	IC4	IC, Opamp, Quad, R-R, 14-SOIC	MICROCHIP TECHNOLOGY	MCP6024-I/SL	MCP6024-I/SL-ND
6	1	J1	CONN HEADER 20POS 4.2MM VERT TIN	MOLEX INC	39-29-9202	WM7346-ND
7	1	J2	Connector, PCB, Right Angle, 10 Position	OMRON ELECTRONICS INC	XG4A-1034	OR1001-ND
8	2	J4 J5	Connector, PCB, Right Angle, BNC	TYCO ELECTRONICS	5227161-2	A32245-ND
9	1	J6	Connector, PCB, Right Angle, SMA	TE CONNECTIVITY	5-1814400-1	A97593-ND
10	5	J9 J10 J11 J12 J13	Arduino stackable header pins, 8x1	SAMTEC INC	SSQ-108-23-F-S	
11	1	J14	Arduino stackable header pins, 10x1	SAMTEC INC	SSQ-110-23-F-S	
12	1	J15	Arduino stackable header pins, 16x2	SAMTEC INC	SSQ-116-23-F-D	
13	1	J16	Arduino stackable header pins, 3x2	SAMTEC INC	SSQ-103-23-F-D	
14	9	JP1-9	Male Headers Pins, 0.1" spacing, 3x1	OMRON ELECTRONICS INC	XG8S-0331	OR1104-ND
15	2	LED1 LED2	LED, Vis, Solid State, Green, 1206	KINGBRIGHT COMPANY LLC	APL3015SGC-F01	754-1111-1-ND
16	3	P1 P2 P3	Mini-Fit Jr Connection header, 8POS 4.2MM R/A TIN	MOLEX INC	39301080	WM1354-ND
17	3	Q1 Q2 Q3	MOSFET N-CH 60V SOT-23	NXP SEMICONDUCTORS	2N7002P,215	568-5818-1-ND
18	1	R12	Resistor, Metal Film, 100, 1%, 1/4W, 1206	STACKPOLE ELECTRONICS INC	RMCF1206FT100R	RMCF1206FT100RCT-ND
19	8	R1 R2 R4 R7 R11 R14 R16 R18	Resistor, Metal Film, 374, 1%, 1/4W, 1206	YAGEO	RC1206FR-07374RL	311-374FRCT-ND
20	4	R6 R25 R26 R30	Resistor, Metal Film, 1k, 1%, 1/4W, 1206	STACKPOLE ELECTRONICS INC	RMCF1206FT1K00	RMCF1206FT1K00CT-ND
21	2	R15 R31	Resistor, Metal Film, 2k, 1%, 1/4W, 1206	STACKPOLE ELECTRONICS INC	RMCF1206FT2K00	RMCF1206FT2K00CT-ND
22	1	R27	Resistor, Metal Film, 4.02k, 1%, 1/4W, 1206	STACKPOLE ELECTRONICS INC	RMCF1206FT4K02	RMCF1206FT4K02CT-ND
23	5	R10 R13 R20 R21 R29	Resistor, Metal Film, 5.1k, 5%, 1/4W, 1206	STACKPOLE ELECTRONICS INC	RMCF1206JT5K10	RMCF1206JT5K10CT-ND
24	3	R23 R24 R28	Resistor, Metal Film, 10k, 1%, 1/4W, 1206	STACKPOLE ELECTRONICS INC	RMCF1206FT10K0	RMCF1206FT10K0CT-ND
25	2	R5 R17	Resistor, Metal Film, 20k, 1%, 1/4W, 1206	STACKPOLE ELECTRONICS INC	RMCF1206FT20K0	RMCF1206FT20K0CT-ND
26	2	R8 R19	Resistor, Metal Film, 220k, 1%, 1/4W, 1206	STACKPOLE ELECTRONICS INC	RMCF1206FT220K	RMCF1206FT220KCT-ND
27	2	R9 R22	Resistor, Metal Film, 2M, 1%, 1/4W, 1206	STACKPOLE ELECTRONICS INC	RMCF1206FT2M00	RMCF1206FT2M00CT-ND
28	1	R3	Resistor, High Voltage, 10M, 1%, 1/4W, 1206	STACKPOLE ELECTRONICS INC	HVCB1206FKC10M0	HVCB1206FKC10M0CT-ND
29	2	U1 U2	IC, SWITCH QUAD 1X1	NXP SEMICONDUCTORS	74HCT4066D	568-8177-1-ND
30	1	U3	IC, Bus Transceiver, 8-bit, 20-SOIC	TEXAS INSTRUMENTS	SN74LVC245ADWR	296-1232-1-ND
31	5	S1-9	Shunt Jumper .1"	3M	969102-0000-DA	3M9580-ND

Note: C7 and S1-9 do not have to be placed