

Solid-State Relay Board BOM

Item	Reference	Qty	Pop	Manufacturer	Part Number	Description	Distributor	Stock Number	Value	Modifier	Cost@1	Cost per Board
1	C5	1	1	AVX Corporation	08055C104KAT2A	Capacitor, Ceramic, 0.1uF, 50V, 10%, X7R, 0805	Digi-Key	478-1395-1-ND	0.1uF	50V	\$0.12	\$0.12
2	C1-4	4	1	AVX Corporation	0805YC474MAT2A	Capacitor, Ceramic, 0.47uF, 16V, 20%, X7R, 0805	Digi-Key	478-6222-1-ND	0.47uF	16V	\$0.33	\$1.32
3	P1	1	1	Molex	22232041	Connector, Header with Tab, 4-Pos, Vertical, 0.100", Through-Hole	Digi-Key	WM4202-ND	0.100"	4-Pos	\$0.44	\$0.44
4	J3-10	8	1	Molex Inc	760010010	Connector, High-Current, 10-Pin, Vertical, Thru-Hole	Digi-Key	WM4667-ND	50A	Gold	\$4.15	\$33.20
5	J1-2	2	1	Keystone Electronics	8191	Connector, Screw, Vertical, PC Mount	Digi-Key	8191K-ND	15A	Jun-32	\$0.54	\$1.08
6	U7	1	1	Murata Power Solutions Inc	NMG1205SC	Converter, DC/DC, 12V in, 5V out, 2W, Through-Hole	Digi-Key	811-1706-5-ND	2W	5V	\$9.40	\$9.40
7	U3-5	3	1	Murata Power Solutions Inc	MER1S1212SC	Converter, DC/DC, 12V-in, 12-V-out, 1W, Through-Hole	Digi-Key	811-2130-5-ND	12V	84mA	\$7.54	\$22.62
8	D1	1	1	Littelfuse Inc	SMBJ9.0CA	Diode, TVS, 10V, 39A, 600W, SMB	Digi-Key	SMBJ9.0CALFCT-ND	10V	39A	\$0.60	\$0.60
9	K1-2	2	1	CUI Inc	VHS-45	Heatsink, Black, Half Brick, Alum	Digi-Key	102-1488-ND	10.3°C/W	4.6°C/W @ 200 LFM	\$3.24	\$6.48
10	U8	1	1	Texas Instruments	SN74LVC1G04DBVR	IC, Inverter, Single, SOT23-5	Digi-Key	296-11599-6-ND	1.65V-5.5V	32mA Drive	\$0.58	\$0.58
11	U6	1	1	Fairchild Semiconductor	74ACT00SCX	IC, Quad 2-Input Positive NAND Gate, SOIC14	Digi-Key	74ACT00SCXCT-ND	24mA/24mA	4.5V~5.5V	\$0.63	\$0.63
12	Q1-4	4	1	STMicroelectronics	STV300NH02L	MOSFET, N-Ch, 24V, 200A, PowerSO-10	Digi-Key	497-7614-1-ND	24V	200A	\$7.18	\$28.72
13	U1-2	2	1	Avago Technologies US Inc.	HCPL-314J-500E	Optocoupler, 2-Ch, 0.6A, SOIC16	Digi-Key	516-2480-1-ND	3750Vrms Isol	0.6A	\$5.23	\$10.46
14	R1-4	4	1	Panasonic Electronic Components	ERJ-6GEYJ241V	Resistor, Thick Film, 240 Ohms, 0.125W, 5%, 0805	Digi-Key	P240ACT-ND	240R	0.125W	\$0.13	\$0.52
15	R5	1	1	Panasonic Electronic Components	ERJ-6ENF1001V	Resistor, Thick Film, 1.00K, 0.125W, 1%, 0805	Digi-Key	P1.00KCCT-ND	1K00	0.125W	\$0.13	\$0.13
											TOTAL:	\$116.30