

Item	Quantity	Reference	Part	Value	Tol	Rating	Type	Manufacturer	Part Number	Supplier
1	1	C6	470uF,,40V,ALUMINUM	470uF	+/-20%	40VDC	Aluminum Electrolytic, Axial	BC Components	11817471	Digi-Key 800-344-4539
2	3	C1,C2,C7	10uF,,50V,CER	10uF	+22/-82%	50VDC	Monolithic Ceramic Cap, Smoothing Type	Murata	GJ243XF51H106ZD12	
3	1	C4	0.022,,,EMI_FILTER	0.022uF	-	50VDC	EMI Filter, 3 Lead, Pi-Type	Murata Erie	DS310-55Y5S223S	
4	2	C3,C5	0.1uF,,50V,MLF	0.1uF	+/-10%	50VDC	Metallized Polyester, Radial (2.5mm)	Wima	MKS02 0.1/50/10	Capsco 408-734-3020
5	2	R21,R22	0,,,	TBD	-	-	20AWG Metal Bus Wire			
6	1	R18	0.2,,3W,	0.2	1%	3W	Axial Lead Wire Element, Current Sense	Ohmite	13FR200	Digi-Key 800-344-4539
7	4	R9,R10,R19,R20	360,,,	360	5%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	KOA		Digi-Key 800-344-4539
8	5	R5,R6,R7,R8,R13	2k,,,	2k	5%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	KOA		Digi-Key 800-344-4539
9	6	R1,R2,R3,R4,R15,R17	10k,,,	10k	5%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	KOA		Digi-Key 800-344-4539
10	3	R11,R12,R14	1M,,,	1M	5%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	KOA		Digi-Key 800-344-4539
11	1	R16	5k,,,3266W	5k	10%	.25W	Trimpot, Cermet, 1/4" sq, top adj	Bourns	3266W-1-502	Digi-Key 800-344-4539
12	1	D1	1.5KE30CA,,,	25VDC	5%	1.5kW pk	BiDirection Transient Voltage Supressor	General Semi	1.5KE30CA	Digi-Key 800-344-4539
13	2	Q1,Q2	SI4835,,,	SI4835	-	-30VDC	P-Channel, Id 9A, Rds 18 mOhm, S08	Vishay	Si4835BDY	Digi-Key 800-344-4539
14	2	Q3,Q4	SI4800,,,	SI4800	-	+30VDC	N-Channel, Id 9A, Rds 18 mOhm, S08	Vishay	Si4800BDY	ClassicIC 800-952-4440
15	1	U7	74HCT1G08,,,	74HCT108	-	-	Single AND Gate, 5 Pin SOT-23	TI	SN74AHCT1G08DBVR	Digi-Key 800-344-4539
16	2	U8,U9	74HCT1G86,,,	74HCT186	-	-	Single XOR Gate, 5 Pin SOT-23	TI	SN74AHCT1G86DBVR	Digi-Key 800-344-4539
17	1	U6	LM393M,,,	LM393M	-	-	Low Power Dual Comparator, 8 Pin SOIC	National	LM393MNS	Digi-Key 800-344-4539
18	4	U1,U2,U3,U4	PS2701-1,,,	PS2701-1	-	-	Optocoupler-Xistor Output, 4 Pin SOP	NEC	PS2701-1	Digi-Key 800-344-4539
19	1	J2	AMPL0K_5,,,	5 Pin	-	-	Horizontal Latching Header	AMP		Digi-Key 800-344-4539
20	2	J3,J1	MSTBA_2,,,	2 Pin	-	12A	5.0mm Horizontal Header	Phoenix	1757475	Digi-Key 800-344-4539
21	1	U5	AA05E-024L-050S,,,	5VDC	-	5W	Isolated DC/DC, Reg +5VDC Output	Astec	AA05E-024L-050S	Digi-Key 800-344-4539