

Item#	Qty.	Reference Designator	Part Value	Case	type	Mfr.	Mfr P/N	type	Last Dist.	Dist P/N
1	1	C1	100uF 16v	radial	electrolytic				DigiKey	493-3271-ND
2	1	C2	1000uF 35v	radial	electrolytic				stock	
3	3	C3-5	2200uF 35v	radial	TS-UP electrolytic	Panasonic			DigiKey	P746-ND
4	2	C6, C7	100uF 6v	SMT tantalum	D case 7343					
5	3	C8-10	10uF 6v	SMT tantalum	A case 3216				DigiKey	
6	14	C11-17, C20, C22-26, C28	0.1uF 50v	O805	SMT chip X7R		MCH215F104ZP		Garrett	MCH215F104ZP
7	3	C18-19, C27	1 uF 25 V	1208/06	SMT chip X7R					
9	1	C21 optional tbd	tbd	1208/06	SMT chip NPO				DigiKey	
11	1	D1	RLS4148	LL34 SMT diode	switching				Garrett	
12	2	J1, J2	1x4 pins 0.1"		molex 4p SIP RA	Molex	22-12-2044		DigiKey	WM2713-ND
13	2	J1, J2 mating housing	1x4 pins 0.1"		"	Molex	22-01-3047		DigiKey	WM2002-ND
14	8	J1, J2 molex socket pins	22-30AWG gold			Molex	08-56-0110		DigiKey	WM1129-ND
15	1	J3	8 pin AMP Modu	Power connector						
15	1	J3 mating housing	8 pin AMP Modu	Power connector						
16	8	J3 socket pins		Modu I crimp socket		AMP	102104-1		DigiKey	102104-1-ND
17	3	Q1-3	IRF5210	TO-220	P-chan FET				stock	
18	1	Q4	VN0606M	TO-92	N-chan FET				stock	
19	4	Q5-8	FMMT3904	SOT-23	NPN transistor				DigiKey	FMMT5551CT
20	2	R1-2	0.1Ω 2W 1%	tubular	non-inductive resi	KRL	NP-2A	1%	stock	
21	1	R3	12 kΩ	O805	SMT chip resistor			5%		
22	3	R4, R21-22	10.0 kΩ	1208/06	SMT chip resistor			1%		
23	3	R5, R19, R36	100 kΩ	O805	SMT chip resistor			5%		
24	1	R6	1 MΩ	O805	SMT chip resistor			5%		
25	3	R7, R20, R35	10 kΩ	O805	SMT chip resistor			5%		
26	9	R8-13, R16-18	27 kΩ	O805	SMT chip resistor			5%		
27	1	R14	4.7 kΩ	O805	SMT chip resistor			5%		
28	1	R15	0 Ω jumper	O805	SMT chip resistor			5%		
29	3	R7, R20, R35	10 kΩ	O805	SMT chip resistor			5%		
30	1	R23	11.0 kΩ	1208/06	SMT chip resistor			1%		
31	1	R24	1 kΩ	1208/06	SMT chip resistor			5%		
32	1	R25	15.0 kΩ	1208/06	SMT chip resistor			1%		
33	1	R26	open	1208/06	SMT chip resistor			1%		
34	1	R27	24.9 kΩ	1208/06	SMT chip resistor			1%		
35	1	R28	49.9 kΩ	1208/06	SMT chip resistor			1%		
36	1	R29	100 kΩ	1208/06	SMT chip resistor			1%		
37	1	R30	200 kΩ	1208/06	SMT chip resistor			1%		
38	1	R31	402 kΩ	1208/06	SMT chip resistor			1%		
39	1	R32	806 kΩ	1208/06	SMT chip resistor			1%		
40	1	R33	1.62 MΩ	1208/06	SMT chip resistor			1%		
41	1	R34	3.24 MΩ	1208/06	SMT chip resistor			1%		
42	1	R37	1k	1/4W	through hole resistor			5%		
43	2	TP1-2	10k	Trimpot	4t vert 3339P	Bourns	3339P		Digikey	3339P-103LF-ND
44	1	U1	Modtronics	SBC65EC						
45	1	U2	PT4244N	SIP 24-12v	10w converter					
46	1	U3	AD623	8p DIP	Op Amp	Analog Devices			Digikey	AD623ANZ-ND
47	1	U4	TLV2401	8p DIP	Op Amp	Texas Inst.	TLV2401			
48	1	U5	LM7805	TO-220	var.					
49	1	U6	LTC1044	SOIC 8p	power inverter	Linear Tech.			DigiKey	LTC1044CS8#PBF-ND
50	1	U7	MAX233ACWP	SOIC 20p wide	RS232 interface	Maxim			DigiKey	MAX233ACWP+G36-ND
51	1	U8	CD4011	SOIC 14p	quad NAND	var.				
52	2	U9-10	CD4050	SOIC 16p	hex buffer					