

Line	Designator	Quantity	Value	Name	Description	Package Reference
1	C1, C2	2	22 uF		Aluminum Electrolytic Capacitor (Radial Lead Type) 22uF ±20% 160V	
2	C3, C5, C6, C8,C10, C15	6	220 nF		CAP CER 220nF 50V X7R 0805	0805
3	C4	1	1 nF		CAP CER 1nF 50V X7R 0805	0805
4	C7	1	2.2 nF		CAP CER 2.2nF 50V X7R 0805	0805
5	C9,C11	2	10 uF		CAP CER 10uF 50V X7R 0805	0805
6	C12,C13	2	20 pF		CAP CER 20pF 50V X7R 0805	0805
7	C14	1	3.3 uF		CAP CER 2.2uF 50V X7R 0805	0805
8	C16,C17	2	470 pF		CAP CER 470pF 50V X7R 0805	0805
9	D1, D2, D4, D6, D8	5		1N4744A	Zener Diode, 15V, 1W	
10	D3	1		SF36 ES3GB	Ultrafast Plastic Diode Rectifier (3A , 400V)	
11	D5, D7	2		1N4728A	Zener Diode, 3.3V, 1W	
12	DS1	1			0805 SMD LED BLUE	0805
13	DS2	1			0805 SMD LED BLUE	0805
14	DS3	1			0805 SMD LED RED	0805
15	DS4	1			0805 SMD LED GREEN	0805
16	F1, F2	2			FUSE CLIP CARTRIDGE 10A PCB	
17	J1, J5	2		Barrier_2_pins	Barrier Terminal Block 9.6 mm Pitch	
18	J2	1		KF350-5P	5 pin mini screw terminal block 3.5mm pitch	
19	J3	1		KF350-2P	2 pin mini screw terminal block 3.5mm pitch	
20	J4	1		KF350-3P	3 pin mini screw terminal block 3.5mm pitch	
21	L1	1		Inductor		
22	MP1, MP2, MP3, MP4	4		Heat Sink		
23	Q1, Q2	2		IRFP4227PBF	MOSFET N-CH 200V 65A	TO247AC
24	Q3, Q4	2		IXTP32P20T	MOSFET P-CH -200V -32A	TO-220
25	R1, R7	2	10 Ω		RES 10 OHM 1% 1/8W 0805 SMD	0805
26	R2,R14,R18	3	7.5k Ω		RES 7.5k OHM 1% 1/8W 0805 SMD	0805
27	R3, R9, R15, R16	4	68k Ω		RES 47k OHM 1% 1/8W 0805 SMD	0805

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28	R10	1	2.2k Ω		RES 47k OHM 1% 1/8W 0805 SMD	0805
29	R11, R12, R13	3	120 Ω		RES 47k OHM 1% 1/8W 0805 SMD	0805
30	R4	1	680k Ω		RES CARBON THD 680k	
31	R5	1	22k Ω		'RES CARBON THD 22k	
32	R6	1	680k Ω		'RES CARBON THD 680k	
33	R8	1	22k Ω		'RES CARBON THD 22k	
34	RDT	1	33k Ω		'RES CARBON THD 33k	
35	TP1	1		SW_NODE	Test Point, Miniature, Red, TH	
36	TP2	1		HV	Test Point, Miniature, Red, TH	
37	TP3	1		LV	Test Point, Miniature, Red, TH	
38	U1	1		ACS712-30A-T	CURRENT SENSOR HALL 30A AC/DC	
39	U2	1		UCC21520DW	DGTL ISO 5.7KV GATE DRVR 16SOIC	
40	U3	1		L78M05CDT-TR	Positive Voltage Regulator, 5V, 3-Pin DPAK, Tape and Reel	D3PAK

NOTE: R2, R14, DS3, DS4, D8 DON'T SOLDER