

## Bill Of Materials

<b>Ite m #</b>	<b>Quantity</b>	<b>Part Ref</b>	<b>Value</b>	<b>Description</b>	<b>Mfg</b>	<b>Mfg Part Number</b>
1	1	BR1	DF06S-T	600 V, 1 A, Standard Recovery Bridge, DFS	Diodes Inc.	DF06S-T
2	1	C1	18 $\mu$ F	18 $\mu$ F, 400 V, High Voltage Al Electrolytic, (18 mm x 16 mm)	Rubycon	400BXW18MEFR16X16
3	1	C2	22 $\mu$ F	22 $\mu$ F, 400 V, High Voltage Al Electrolytic, (21.5 mm x 12.5 mm)	Nichicon	UCS2G220MHD
4	1	C3	1 nF	1 nF, 2 kV, High Voltage Ceramic	Kemet	C1210X102KGRACAUTO
5	1	C4	100 nF	100 nF, 16 V, Ceramic, X7R	AVX Corp	0603YC104K4T4A
6	1	C5	100 pF	100 pF, 50 V, Ceramic, C0G	Wurth Elektronik	885012009011
7	1	C6	47 $\mu$ F	47 $\mu$ F, 10.0 V, Electrolytic, Gen Purpose, 1000 m $\Omega$ , (5.2 mm x 6.3 mm)	United Chemi-Con	EMVY100ADA470MF55G
8	1	C7	0.1 nF	0.1 nF, 250 VAC, Ceramic, Y Class	Murata	GA342QR7GF101KW01L
9	1	C8	22 pF	22 pF, 630 V, High Voltage Ceramic	Murata	GRM31A5C2J220JW01D
10	1	C9	10 $\mu$ F	10 $\mu$ F, 50 V, Electrolytic, Gen Purpose, 1000 m $\Omega$ , (6.1 mm x 6.3 mm)	Rubycon	50TRV10M6.3X6.1
11	1	C10	10 pF	10 pF, 100 V, Ceramic, C0G	Kemet	K100J15C0GH5TL2
12	1	C11	220 $\mu$ F	220 $\mu$ F, 35 V, Electrolytic, Super Low ESR, 56 m $\Omega$ , (15 mm x 8 mm)	United Chemi-Con	EKZE350ELL221MH15D
13	1	C12	100 $\mu$ F	100 $\mu$ F, 35 V, Electrolytic, Low ESR, 80 m $\Omega$ , (10.2 mm x 8 mm)	Panasonic	EEE-FP1V101AP
14	1	D1	RS07K-GS08	800 V, 1.4 A, Fast Recovery, 300 ns, DO-219AB	Vishay	RS07K-GS08
15	1	D2	US1B-13-F	100 V, 1 A, Ultrafast Recovery, 50 ns, DO-214AC	Diodes Inc.	US1B-13-F
16	1	D3	ES2C-E3/52T	150 V, 2 A, Ultrafast Recovery, 30 ns, DO-214AA	Vishay	ES2C-E3/52T
17	1	F1	1 A	250 VAC, 1 A, Radial TR5, Time Lag Fuse	Littelfuse / Wickmann(R)	37411000410
18	1	L1	6 mH	6 mH, 1.6 A	Panasonic	ELF18N016
19	1	L2	3.3 $\mu$ H	3.3 $\mu$ H, 2.6 A	Murata	LQH66SN3R3M03L
20	1	R1	20 k $\Omega$	20 k $\Omega$ , 5 %, 0.25 W, Thick Film	Generic	
21	1	R2	24 $\Omega$	24 $\Omega$ , 5 %, 0.25 W, Thick Film	Generic	
22	1	R3	23.2 k $\Omega$	23.2 k $\Omega$ , 1 %, 0.125 W, Thick Film	Generic	
23	1	R4	100 k $\Omega$	100 k $\Omega$ , 1 %, 0.25 W, Thick Film	Generic	
24	1	R5	2 $\Omega$	2 $\Omega$ , 5 %, 0.125 W, Thick Film	Generic	
25	1	R6	470 $\Omega$	470 $\Omega$ , 5 %, 0.25 W, Thick Film	Generic	
26	1	R7	3.3 k $\Omega$	3.3 k $\Omega$ , 5 %, 0.125 W, Thick Film	Generic	
27	1	R8	44.2 k $\Omega$	44.2 k $\Omega$ , 1 %, 0.25 W, Thick Film	Generic	
28	1	R9	9.76 k $\Omega$	9.76 k $\Omega$ , 1 %, 0.125 W, Thick Film	Generic	
29	1	RT1	3.3 $\Omega$	NTC Thermistor 3.3 $\Omega$ , 4.5 A	Murata	PRG18BC3R3MM1RB
30	1	RV1	V275LA4P	275 V, 23 J, 7 mm, RADIAL, MOV	Littelfuse	V275LA4P
31	1	T1	EF25 (B66317)	N87 Core Material Refer to Manufacturer datasheet for a number of parts to purchase	EPCOS (TDK)	B66317

32	1	T1 Bobbin	EF25 - 1 (P5-S5)	Bobbin Material : GFR polyterephthalate	EPCOS (TDK)	B66208
33	1	T1 Core Acc.1	B66208	Yoke . Stainless spring steel (0.25mm)	EPCOS (TDK)	B66208
34	1	U1	LNK6764K	LinkSwitch-HP, LNK6764K, eSOP-12B	Power Integrations	LNK6764K
35	1	VR1	P6SMB130CA-E 3/52	130 V, 5 W, 5 %, DO-214AA, TVS	Vishay	P6SMB130CA-E3/52
36	1			78 mm <sup>2</sup> area on Copper PCB. 2 oz (70 μm) thickness. Heatsink for use with Rectifier D3.	Custom	
37	1			163 mm <sup>2</sup> area on Copper PCB. 2 oz (70 μm) thickness. Heatsink for use with Device U1.	Custom	