

Viper53 Single Bill of Materials:

<b>Qty.</b>	<b>Ref.</b>	<b>Description</b>	<b>Manufacturer's P/N</b>	<b>Manufacturer</b>	<b>Geometry</b>	<b>Mtg.</b>
1	BR1	Rectifier Bridge 1000V 2A	KBP210G	Diodes, Inc.	KBP(D-44)	TH
1	C1	0.047 $\mu$ F 250V boxcap	ECQ-U2A473ML	Panasonic		TH
1	C2	68 $\mu$ F/400V electrolytic	ECO-S2GP680BA	Panasonic	Radial	TH
1	C3	4700pF 1kV ceramic	ECK-D3A472KBP	Panasonic		TH
1	C4	100 $\mu$ F/25V electrolytic	EEU-FC1E101S	Panasonic	Radial	TH
1	C5	4.7nF 50V polyester	ECQ-B1H472JF	Panasonic		TH
2	C6, C7	470nF 50V ceramic	B37984M5474K000	EPCOS, Inc.		TH
2	C8, C16	1000 $\mu$ F/25V electrolytic	EEU-FC1V102	Panasonic	Radial	TH
1	C9	220 $\mu$ F/25V electrolytic	EEU-FC1E221	Panasonic	Radial	TH
1	C10	4.7nF/250V Y1 cap	ECK-DNA472ME	Panasonic	Disc	TH
2	C11, C12	0.01 $\mu$ F 50V ceramic	B37981M5103K000	EPCOS, Inc		TH
1	C13	470pF/1kV ceramic	ECK-D3A471KBP	Panasonic		TH
1	C14	100pF/1kV ceramic	ECK-D3A101KBP	Panasonic		TH
1	C15	22nF 50V ceramic	ECQ-B1H223JF	Panasonic		TH
2	C17, C18	0.33 $\mu$ F/250V boxcap	ECQ-U2A334MV	Panasonic		TH
1	L1	Panasonic 35mH common-mode line choke	ELF-18N006A	Panasonic		TH
1	L2	2.2 $\mu$ H inductor	RFB0807-2R2	Coilcraft	Radial	TH
1	T1	Transformer	31985	Midcom		TH
1	R1	Wirewound 3 $\Omega$ 5% 3W resistor	ALSR3J-3.0	Huntington Elec.	Axial	TH
1	R2	22k $\Omega$ 5% 2W resistor			Axial	TH
1	R3	3k $\Omega$ 5% 0.25W resistor			Axial	TH
1	R4	15 $\Omega$ 5% 0.25W resistor			Axial	TH

1	R5	3.3k $\Omega$ 5% 0.25W resistor			Axial	TH
1	R6	3.48k $\Omega$ 1% 0.25W resistor			Axial	TH
1	R7	1k $\Omega$ 5% 0.25W resistor			Axial	TH
1	R8	68 $\Omega$ 5% 0.25W resistor			Axial	TH
1	R9	13.3k $\Omega$ 1% 0.25W resistor			Axial	TH
1	R10	22 $\Omega$ 5% 0.5W resistor			Axial	TH
1	R12	1k $\Omega$ 5% 2W resistor			Axial	TH
1	R13	22 Ga Jumper wire			Axial	TH
1	D1	Rectifier 0.15A 75V	1N4148	Micro Commercial	DO-35	TH
2	D2, D3	Ultra-fast High Voltage Diode 600V 1A	<b>STTH1L06</b>	<b>STMicroelectronics</b>	DO-41	TH
1	D4	Fast Recovery Rectifier Diode 3A 200V	<b>BYW98-200*</b>	<b>STMicroelectronics</b>	DO-201AD	TH
1	D5	Transil	<b>1.5KE220A</b>	<b>STMicroelectronics</b>	DO-201	TH
1	U2	Optocoupler	H11A817	Fairchild	DIP-4	TH
1	U3	Programmable Voltage Reference	<b>TL431AIZ</b>	<b>STMicroelectronics</b>	TO92	TH
1	U4	Offline Primary Switcher	<b>VIPer53DIP</b>	<b>STMicroelectronics</b>	DIP-8	TH
2	W1, W2	22 Ga Jumper wire			Axial	TH
2	J1, J2	2 Pos Connectors	1729018	Phoenix Contact		TH
1	F1	2A 250V slo-blo fuse	0218002.H	Littelfuse, Inc.		TH
2	F1	Fuse clip 5mm brass pc mount	01110501H	Littelfuse, Inc.		TH