

Viper53 Single Bill of Materials:

Qty.	Ref.	Description	Manufacturer's P/N	Manufacturer	Geometry	Mtg.
1	BR1	Rectifier Bridge 1000V 2A	KBP210G	Diodes, Inc.	KBP(D-44)	TH
1	C1	0.047 μ F 250V boxcap	ECQ-U2A473ML	Panasonic		TH
1	C2	68 μ F/400V electrolytic	ECO-S2GP680BA	Panasonic	Radial	TH
1	C3	4700pF 1kV ceramic	ECK-D3A472KBP	Panasonic		TH
1	C4	100 μ 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 μ F/25V electrolytic	EEU-FC1V102	Panasonic	Radial	TH
1	C9	220 μ 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 μ 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 μ F/250V boxcap	ECQ-U2A334MV	Panasonic		TH
1	L1	Panasonic 35mH common-mode line choke	ELF-18N006A	Panasonic		TH
1	L2	2.2 μ H inductor	RFB0807-2R2	Coilcraft	Radial	TH
1	T1	Transformer	31985	Midcom		TH
1	R1	Wirewound 3 Ω 5% 3W resistor	ALSR3J-3.0	Huntington Elec.	Axial	TH
1	R2	22k Ω 5% 2W resistor			Axial	TH
1	R3	3k Ω 5% 0.25W resistor			Axial	TH
1	R4	15 Ω 5% 0.25W resistor			Axial	TH

1	R5	3.3k Ω 5% 0.25W resistor			Axial	TH
1	R6	3.48k Ω 1% 0.25W resistor			Axial	TH
1	R7	1k Ω 5% 0.25W resistor			Axial	TH
1	R8	68 Ω 5% 0.25W resistor			Axial	TH
1	R9	13.3k Ω 1% 0.25W resistor			Axial	TH
1	R10	22 Ω 5% 0.5W resistor			Axial	TH
1	R12	1k Ω 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	STTH1L06	STMicroelectronics	DO-41	TH
1	D4	Fast Recovery Rectifier Diode 3A 200V	BYW98-200*	STMicroelectronics	DO-201AD	TH
1	D5	Transil	1.5KE220A	STMicroelectronics	DO-201	TH
1	U2	Optocoupler	H11A817	Fairchild	DIP-4	TH
1	U3	Programmable Voltage Reference	TL431AIZ	STMicroelectronics	TO92	TH
1	U4	Offline Primary Switcher	VIPer53DIP	STMicroelectronics	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

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