

PSU_VIPER_BOARD_HV-Rev252

BILL OF MATERIALS

Reference	Part number	Manufacturer	Description	Package
R1	ERJ-P08J224V	Panasonic	220k Ω ±5% - 0.33W - 200V	1206
R2	ERJ-P08J224V	Panasonic	220k Ω ±5% - 0.33W - 200V	1206
R3	ERJ-P08J224V	Panasonic	220k Ω ±5% - 0.33W - 200V	1206
R4	ERJ-P08J224V	Panasonic	220k Ω ±5% - 0.33W - 200V	1206
R5	ERJ-P08J224V	Panasonic	220k Ω ±5% - 0.33W - 200V	1206
R6	ERJP08J101V	Panasonic	100k Ω ±5% - 0.33W - 200V	1206
R7	ERJP06F47R0V	Panasonic	47 Ω ±1% - 0.5W	0805
R8	ERJP03F10R0V	Panasonic	10 Ω ±1 - 0.2W	0603
R9	ERJ2GEJ471X	Panasonic	470 Ω ±5% - 0.1W	0603
R10	ERJP03F2203V	Panasonic	220k Ω ±1% - 0.2W	0603
R11	Not connected			
R12	Not connected			
R13	ERJ3GEYJ123V	Panasonic	12k Ω ±5% - 0.1W	0603
R14	ERJP03F2202V	Panasonic	22k Ω ±1% - 0.2W	0603
R15	CRCW0603133KFKEA	Vishay	133k Ω ±1% - 0.1W	0603
R16	CRG0402F680K	TE Connectivity	680k Ω ±1 - 1/16W	0402
R17	CPF0402B11K5E1	TE Connectivity	11.5k Ω ±0.1 - 0.1W	0402
R18	RN73C1E4K22BTG	TE Connectivity	4.22k Ω ±0.1 - 0.1W	0402
C1	PHE844RD6220KR06L2	Kemet	Film X1 capacitor 220nF-440Vac	(26x11)mm - p22.5mm
C2	GRM55DR72J224KW01L	Murata	MLCC capacitor 220nF-630V	(5.7x5)mm
C3	UCY2V330MHD1TO	Nichicon	Elcap 33uF-350V	Ø12.5mm - p5mm - h21.5mm
C4	UCY2V330MHD1TO	Nichicon	Elcap 33uF-350V	Ø12.5mm - p5mm - h21.5mm
C5	C3216C0G2J102JT	TDK	MLCC capacitor 1nF-630V	1206
C6	GRM1885C1H101JA01D	Murata	MLCC capacitor 100pF-50V	0603
C7	C2012X5R1E106K125AB	TDK	MLCC capacitor 10µF-25V	0805
C8	Not connected			
C9	GRM1885C1H101JA01D	Murata	MLCC capacitor 100pF-50V	0603
C10	25ZLH470MEFC10X12.5	Rubycon	Elcap 470uF-25V low ESR	Ø10mm - p5mm - h12.5mm
C11	25YXF100MEFC6.3X11	Rubycon	Elcap 100uF-25V	Ø6.3mm - p2.5mm - h12.5mm
C12	Not connected			

C13	GRM188R61A335KE15D	Murata	MLCC capacitor 3.3uF-10V	0603
C14	GRM188R71H223KA01D	Murata	MLCC capacitor 22nF-50V	0603
C15	C1608X5R1V225K080AC	TDK	MLCC capacitor 2.2uF-35V	0603
C16	C1608X5R1V225K080AC	TDK	MLCC capacitor 2.2uF-35V	0603
C17	C1005X5R1H104K050BB	TDK	MLCC capacitor 100nF-50V	0402
C18	VJ0402A220JNAAJ	Vishay	MLCC capacitor 22pF-50V	0402
C19	GRM155R71H103KA88D	Murata	MLCC capacitor 10nF-50V	0402
C20	GRM21BR60J226ME39L	Murata	MLCC capacitor 22uF-6.3V	0805
C21	GRM188C81E105KAADD	Murata	MLCC capacitor 1uF-25V	0603
C22	GRM188C81E105KAADD	Murata	MLCC capacitor 1uF-25V	0603
C23	DE2E3KY222MA2BM01	Murata	Ceramic X1/Y1 capacitor 2.2nF 250Vac	(8x5)mm
C24	GRM188R61E106MA73J	Murata	MLCC capacitor 10uF-25V	0603
C25	25PK220MEFC6.3X11	Rubycon	Elcap 220uF-25V	Ø6.3mm - p2.5mm - h11mm
D1	MRA4007T3G	ON Semiconductor	1A-1000V Power rectifier diode	SMA
D2	STPS1150A	STMicroelectronics	1A-150V Signal schottky	STMite
D3	STPS2200U	STMicroelectronics	2A-200V Power schottky	SMB
D4	STPS1H100A	STMicroelectronics	1A-100V Power schottky	SMA
D5	MMSZ5248B-V-GS08	Vishay	Zener diode 18V	SOD-123
D6	SMA6J100A-TR	STMicroelectronics	100V Transil	SMA
BR	DBLS208G RD	Taiwan Semiconductor	Bridge rectifier 1200V-2A	DBLS
TF	750314352 rev1	Würth Elektronik	Flyback transformer	E16
L1	7447713102	Würth Elektronik	Power induction 1mA	(10x10x3) mm
L2	7447713471	Würth Elektronik	Power induction 470uA	(10x10x3) mm
L3	74455047	Würth Elektronik	Power induction 4.7uA	(6.6x4.45x2.92) mm
L4	744043470	Würth Elektronik	Power induction 47uA	(4.8x4.8x2.8) mm
CM	744821110	Würth Elektronik	10mH Common Mode choke	(15x7.5x18) mm
IC1	VIPer26HD	STMicroelectronics	Offline converter	SO16N
IC2	LDK220M50R	STMicroelectronics	5V-200mA LDO	SOT23-5
IC3	PM6644	STMicroelectronics	350mA Step down regulator	DFN10 (3x3) mm
REF	TS432ILT	STMicroelectronics	Reference	SOT23
OPTO	SFH610A-2	Vishay	Optocoupler	SMD4
NTC1	B57236S160M	EPCOS	16Ω inrush current limiter	
NTC2	B57236S160M	EPCOS	16Ω inrush current limiter	
F1	0461002.ER	Littlefuse	2A fuse	SMD
OUT	0022152046	Molex	4 vie female connector	2.54mm pcb
IN	0022162030	Molex	3 vie female connector	2.54mm pcb
M1	ENISO-A3050-E1-12	ACCEL ENISO	Column NYLON; M3; L=12mm	NYLON; M3; L=12mm

M2	ENISO-A3050-E1-12	ACCEL ENISO	Column NYLON; M3; L=12mm	NYLON; M3; L=12mm
M3	ENISO-A3050-E1-12	ACCEL ENISO	Column NYLON; M3; L=12mm	NYLON; M3; L=12mm
M4	ENISO-A3050-E1-12	ACCEL ENISO	Column NYLON; M3; L=12mm	NYLON; M3; L=12mm
M5	BN1061.1401165	BOSSARD	SCREW; NYLON; M3; L=4mm	NYLON; M3; L=4mm
M6	BN1061.1401165	BOSSARD	SCREW; NYLON; M3; L=4mm	NYLON; M3; L=4mm
M7	BN1061.1401165	BOSSARD	SCREW; NYLON; M3; L=4mm	NYLON; M3; L=4mm
M8	BN1061.1401165	BOSSARD	SCREW; NYLON; M3; L=4mm	NYLON; M3; L=4mm

