

PMP5500_REVB BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	330uF	Capacitor, Aluminum, 420V, 20%	22 x 35 mm	EET-UQ2S331LA	Panasonic
1	C10	3.3uF	Capacitor, Ceramic, 16V, X7R, 15%	0805	STD	STD
1	C11	0.1uF	Capacitor, Ceramic, 250V, X7R, 10%	1206	C3216X7R2E104K	TDK
1	C12	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1206	C3216X7R1C226M	TDK
10	C14, C15, C16, C19, C23, C25, C27, C29, C31, C33	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
2	C17, C18	1000uF	Capacitor, Aluminum Electrolytic, 50V	0.571 inch	50V ZL 1000uF 16 X 25	Rubycon
1	C2	0.47uF	Capacitor, Film, 250VAC, 20%	0.335 X 1.004 inch	ECQU2A474ML	Panasonic
1	C21	0.033 uF	Capacitor, Film, TH, ±3%, 800VDC	8.4x15.7mm	ECWH8333HA	Panasonic
1	C22	220pF	Capacitor, Ceramic, 1kV, C0G	1808	Std	Std
1	C24	470uF	Capacitor, Aluminum Electrolytic, 50V	0.492 inch	50V ZL 470uF 12.5 X 20	Rubycon
1	C26	1500pF	CAP, CERM DISC Y1, 250Vac, 20%	.500 X .310	ECKDNA152ME	Panasonic
5	C3, C13, C20, C28, C34	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	C1608X7R1C105K	TDK
1	C30	1000uF	Capacitor, Aluminum Electrolytic, 35V	0.492 inch	35V ZL 1000uF 12.5 X 25	Rubycon
1	C32	0.047uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H473K	TDK
2	C35, C36	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C37	1uF	Capacitor, Ceramic, 50V, X7R, 15%	1206	Std	Std
1	C38	1uF	Capacitor, Ceramic, 50V, X7R, 20%	1206	Std	Std
2	C4, C6	1000pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK
1	C5	0.47uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	C1608X7R1C474K	TDK
1	C7	1200pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H122K	TDK
1	C8	0.22uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	C1608X7R1C224K	TDK
1	C9	150pF	Capacitor, Ceramic, 50V, C0G, 10%	0603	STD	STD
2	CX1, CX2	1uF	Capacitor, Film, 250VAC, 20%	0.335 X 1.004 inch	ECQU2A474ML	Panasonic
4	CY1, CY2, CY3, CY4	100pF	CAP 100PF 250VAC CERAMIC DISC Y1	.500 X .310 inch	ECK-DNA101MB	Panasonic
1	D1	MURS360	Diode, 3A, 600V	SMC	MURS360	ON Semi
2	D10, D12	MBR20H150CT	Diode, Dual Schottky, 10A, 150V	TO-220	MBR20H150CT	Vishay
2	D15, D17	MBR16100CTG	Diode, Dual Schottky, 16A, 100V	TO-220	MBR16100CTG	ON Semi
1	D18	MBR0560	Diode, Schottky, 500-mA, 60-V	SOD123	MBR0560	STD
2	D19, D20	12V	Diode, Zener, 12-V	SOT23	BZX84C12LT1	ON Semiconductor
1	D2	LXA04T600	Diode, UltraFast Rectifier, 4-A, 600-V	TO220AC	LXA04T600	Qspeed
1	D3	GBU8J	Diode, Bridge Rectifier, 6A, 600V	0.880 x 0.140 inch	GBU6J	Fairchild
2	D4, D5	MURA160T3	Diode, Rectifier, 1A, 600V	SMA	MURA160T3	ON Semiconductor
4	D6, D7, D11, D14	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
1	D8	5.1V	Diode, Zener, 5.1-V	SOT23	BZX84C5V1LT1	ON Semiconductor
4	D9, D13, D16, D21	BAV99	Diode, Dual Ultra Fast, Series, 200-mA, 70-V	SOT23	BAV99	Fairchild
1	F1	10A	FUSE TIME-LAG 10.0A 250V TR5	0.335	37421000410	Littlefuse/Wickmann
3	HS1, HS4, HS5	529702 B 0 25 00	Heatsink, Vertical-mount With Solderable Pins	1.000 x 1.650 inch	529702 B 0 25 00	Aavid
2	HS2, HS6	513201	HEATSINK TO-220 W/PINS 1inch TALL	0.5x1.38in.	531002B02500G	Aavid
1	HS3	7-340-1PP-BA	Heatsink, TO-220, Vertical Mounting	0.460 x 1.150 inch	7-340-xxx	Thermalloy
1	J1	703W-00/54	Connector, AC Board mount, 9mm	1.97 x 0.79	703W-00/54	Qualtek Electronics
3	J2, J3, J4	B2P-VH	Connector, Top Entry 2-pin, 156 mil spacing,	0.465 X 0.370 inch	B2P-VH	JST
1	J5	B2B-EH-A	Header, Top Entry 2-pin, 98 mil spacing,	0.295 x 0.150 inch	B2B-EH-A	EH
1	L1	1.0 mH	Inductor, 400W-3 output Resonant Halfbridge, ±10%	1.950x2.060 inch	RLTI-1015	Renco
1	L2	7.4mH	Inductor, AC Line Filter	36.0 x 36.0 mm	LH34-562Y5R0-02	TDK
1	L3	2.2mH	Inductor, Power, 200mA	0.350 x 0.300 inch	RFB0807-222L	Coilcraft
1	L4	150uH	Inductor, Power, 800mA	0.350 x 0.300 inch	RFB0807-151L	Coilcraft
2	Q1, Q2	IPP50R199CP	Trans, Nchan, 550V, 6.6A, 199 milliohm	TO-220AB	IPP50R199CP	Infineon

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1	Q12	2SD1760	Bipolar, NPN, 50-V, 3-A	SMD-220	2SD1760	ROHM
4	Q3, Q4, Q8, Q11	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
1	Q5	FQU1N80	Transistor, NFET, 1A, 800V, 20 Ohm	TO-251AA	FQU1N80	Fairchild
2	Q6, Q10	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
2	Q7, Q9	IPP50R350CP	Trans, Nchan, 550V, 10A, 350 millohm	TO-220AB	IPP50R350CP	Infineon
4	R1, R25, R27, R35	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R10	221	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R11, R15	165k	Resistor, Chip, 1/16W, 1%	1206	Std	Std
1	R12	13.3k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R13, R22, R39	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R14	33.2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R16	1.8MEG	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R18	150k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R19, R20	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R2, R4, R17, R21	499k	Resistor, Chip, 1/16W, 1%	1206	Std	Std
1	R23	16.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R28	20k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R29	750	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R3, R5	0.1	Resistor, 2W, Wirewound, Non-Inductive	0.130 * 0.600"	WNCR10FECT-ND	Ohmite
1	R30	100	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R31	2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R32	10k	Resistor, Chip, 1/16W, 1%	1206	Std	Std
1	R33	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R34	50	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R36	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R37, R38	DNP	Do Not Populate	0603	DNP	DNP
1	R40	3.32k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R41	DNP	Resistor, 2W, Wirewound, Non-Inductive	0.130 * 0.600"	WNCR10FECT-ND	Ohmite
1	R42	249	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R6, R7, R24, R26	3	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R8, R9	3.3MEG	Resistor, Chip, 1/16W, 1%	1206	Std	Std
1	T1	350 uH	Transformer, ±10%	1.630x2.350 inch	RLTI-1014	Renco
1	T2	56P3362	Transformer, Gate Drive	0.453 x 0.492 inch	56P3362	Vitec Electronics
6	TP1, TP3, TP5, TP7, TP9, TP10	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
4	TP2, TP4, TP6, TP8	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U1	UCC28019AD	IC, Continuous Current Mode PFC Controller	SO8	UCC28019AD	TI
1	U2	UCC2889	IC, Off-line power supply controller	SO8	UCC2889D	Texas Instruments
1	U3	TL331DBV	IC, COMPARATOR, DIFFERENTIAL, SINGLE	SOT_23_5 (DBV)	TL331DBV	TI
1	U4	UCC25600D	IC, Resonant Mode Controller	SO-8	UCC25600D	TI
1	U5	H11A817A	IC, Optocoupler, 5300-V, 80-160% CTR	0.380 x 0.180 inch	H11A817A	Fairchild
1	U6	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	TI
1	VAR1	2.5 ohm	Varistor, Disk, 265V max. 6A	5.1x12.5 mm	SL12 10006x	Amethern

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