

Filename: PMP4259_POWER_REVB_bom.xls

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PMP4259_POWER_REVB BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
2	C1	1uF	Capacitor, Film, 0.47uF, 275VAC, ?0%	0.236 X 0.591 inch	ECQU2A474KL	Panasonic
	C2	1uF	Capacitor, Film, 0.47uF, 275VAC, ?0%	0.236 X 0.591 inch	ECQU2A474KL	Panasonic
1	C3	1 uF	Capacitor, Polyester, 1 礒, 305Vac, 20%	1220 x 0.768	B32924C3105M	EPCOS
1	C4	47uF	Capacitor, Aluminum Electrolytic, 35V	0.197 inch	ECA-1VHG470	Panasonic
4	C6	1000pF	Y2 102	0.236 x 0.315	ECKNVS102MB	
	C7	1000pF	Y2 102	0.236 x 0.315	ECKNVS102MB	
2	C8	1.0u	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std
	C9	1.0u	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std
	C10	1.0u	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std
	C11	1.0u	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std
3	C12	1.0u	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std
3	C17	330u	Capacitor, Aluminum Electrolytic, 45OV	30 x 25 mm	B43504A5337M	EPCOS
	C18	330u	Capacitor, Aluminum Electrolytic, 45OV	30 x 25 mm	B43504A5337M	EPCOS
	C19	330u	Capacitor, Aluminum Electrolytic, 45OV	30 x 25 mm	B43504A5337M	EPCOS
	C21	1.0uF	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std
	C22	1.0uF	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std
2	D1	GBJ2506	RECT BRIDGE GPP 25A 600V GBJ	1.190 x 0.190 inch	GBJ2506	Diodes
1	D2	BAV99	DIODE SW DUAL 75V 350MW SOT23	SOT23	BAV99	Diodes
	D3	GBJ2006	RECT BRIDGE GPP 25A 600V GBJ	1.190 x 0.190 inch	GBJ2506	Diodes
2	D4	1N4007	Diode, Signal, 800V, 1A	DO-41	1N4006	Diodes
	D5	1N4007	Diode, Signal, 800V, 1A	DO-41	1N4006	Diodes
2	D10	STTH2006CW	Diode, UltraFast Rectifier, 30A, 600V	TO247	RURG3060	Fairchild
	D11	STTH2006CW	Diode, UltraFast Rectifier, 30A, 600V	TO247	RURG3060	Fairchild
1	D12	STTH506CW	Diode, SiC, 8-A, 600-V	TO220AC	STTH506CW	ST
4	D13	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon
	D14	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon

2	D16	33V	Diode, Zener, 33-V, 3.8-mA, 350-mW, 5%	SOT23	MMBZ525BLT1	Motorola
	D17	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon
	D18	33V	Diode, Zener, 33-V, 3.8-mA, 350-mW, 5%	SOT23	MMBZ525BLT1	Motorola
	D19	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon
2	FB1	0215020.MXEP	Fuseholder, 1/4 fuses		0215020.MXEP	Littelfuse
	FB2	0215020.MXEP	Fuseholder, 1/4 fuses		0215020.MXEP	Littelfuse
6	HS1		Heatsink, Vertical-mount, Clip Extrusion	0.866 x 2.000 inch	782653B02000	Aavid
	HS2		Heatsink, Vertical-mount, Clip Extrusion	0.866 x 2.000 inch	782653B02000	Aavid
	HS3		Heatsink, Vertical-mount, Clip Extrusion	0.866 x 2.000 inch	782653B02000	Aavid
	HS4		Heatsink, Vertical-mount, Clip Extrusion	0.866 x 2.000 inch	782653B02000	Aavid
	HS5		Heatsink, Vertical-mount, Clip Extrusion	0.866 x 2.000 inch	782653B02000	Aavid
	HS6		Heatsink, Vertical-mount, Clip Extrusion	0.866 x 2.000 inch	782653B02000	Aavid
3	J1	CX35-36-C	LUG FIXED, #6-14, 50A, 3/16 inch, Copper/Tin, Uninsulated	0.375 x1.00 inch	CX35-36-C	Panduit
	J2	CX35-36-C	LUG FIXED, #6-14, 50A, 3/16 inch, Copper/Tin, Uninsulated	0.375 x1.00 inch	CX35-36-C	Panduit
	J3	CX35-36-C	LUG FIXED, #6-14, 50A, 3/16 inch, Copper/Tin, Uninsulated	0.375 x1.00 inch	CX35-36-C	Panduit
2	J4	62409-1	CONN, Tab Faston TH	0.033 x 0.250 inch	62409-1	Tyco
	J5	62409-1	CONN, Tab Faston TH	0.033 x 0.250 inch	62409-1	Tyco
1	J7	70543-0036	Header, Shrouded 2-pin, 100mil spacing	0.200 x 0.500 inch	70543-0036	Molex
1	J8	PEC36SAAN	Header, 16-pin, 100mil spacing, (36-pin strip)	0.100 inch x 16	PEC36SAAN	Sullins
2	L1	250 uH	Inductor, PFC, 18 Adc	1.713 X 1.831 inch	SRW42EC-HP16	TDK
	L2	250 uH	Inductor, PFC, 18 Adc	1.713 X 1.831 inch	SRW42EC-HP16	TDK
2	L3	1mH	Inductor, Common Mode, 1mH, 7milliohm, 10A	0.728 x 1083 inch	744824101	Wuerth
	L4	1mH	Inductor, Common Mode, 1mH, 7milliohm, 10A	0.728 x 1083 inch	744824101	Wuerth
4	Q1	IPW60R099CP	Transistor, Nch Insulated Gate Bipolar, 20A, 600V	TO-247AC	IPW60R099CP	Infineon
	Q2	IPW60R099CP	Transistor, Nch Insulated Gate Bipolar, 20A, 600V	TO-247AC	IPW60R099CP	Infineon
	Q3	IPW60R099CP	Transistor, Nch Insulated Gate Bipolar, 20A, 600V	TO-247AC	IPW60R099CP	Infineon
	Q4	IPW60R099CP	Transistor, Nch Insulated Gate Bipolar, 20A, 600V	TO-247AC	IPW60R099CP	Infineon
1	Q10	Si2309DS	MOSFET, P-ch, -60V, -1.25A, 550 milliohms	SOT23	Si2309DS	Vishay
1	R3	1M	Resistor, Metal Film, 1/4 watt, ?5%	1206	CRCW1206-xxx-J	Vishay
1	R4	1M	Resistor, Metal Film, 1/4 watt, ?5%	1206	Std	Std
7	R5	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std

	R6	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R7	4.7k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R8	220	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R9	2.2M	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R10	100K	Resistor, Chip, 1/16W, yy%	0603	Std	Std
2	R11	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R12	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R13	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R14	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R15	68K	Resistor, Chip, 1/16W, x%	603	std	std
	R16	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R17	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R18	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R19	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R20	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R24	1M	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R22	4.7K	Resistor, Chip, 1/16W, x%	603	std	std
4	R25	10	Resistor, Chip, 1/16W, yy%	0603	Std	Std
4	R26	10k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R27	10	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R28	10k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R31	10	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R32	10k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R33	10	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R34	10k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
2	R42	10	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R43	10	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R47	0	Resistor, Chip, 1/16W, yy%	0603	Std	Std
2	R46	0	Resistor, Chip, 1/16W, yy%	0603	Std	Std
2	RT1	10	Thermistor, NTC, 10 ohms, 8-A	0.590 x 0.276	B57464S0509M000	Epcos
	RT2	10	Thermistor, NTC, 10 ohms, 8-A	0.590 x 0.276	B57464S0509M000	Epcos

1	RT3		Varistor, Disk, 350V, 1W, TA @ 85C?,D Size"			DISK-846	1.004 inch
2	S1	G2R-1A-E-DC12	Relay, Reed, DPST, 16A, 250VAC	0.210 x 0.810 inch		G2R-1A-E-DC12	Omron
	S2	G2R-1A-E-DC12	Relay, Reed, DPST, 16A, 250VAC	0.210 x 0.810 inch		G2R-1A-E-DC12	Omron
2	T1	CS4200V	Transformer, Current Sense, 100:1	0.570 x 0.770 inch		CS4200V-01L	Coilcraft
	T2	CS4200V	Transformer, Current Sense, 100:1	0.570 x 0.770 inch		CS4200V-01L	Coilcraft
2	U2	TL431AIDBZR	IC PREC SHUNT REG ADJ SOT23-3	SOT23-3		TL431AIDBZR	TI
	U1	TL431AIDBZR	IC PREC SHUNT REG ADJ SOT23-3	SOT23-3		TL431AIDBZR	TI
2	U3	UCC27324	IC, MOSFET Driver, Single-Channel, Non-inverting	SO-8		UCC27324	TI
	U4	UCC27324	IC, MOSFET Driver, Single-Channel, Non-inverting	SO-8		UCC27324	TI

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
 2. These assemblies must be clean and free from flux and all contaminants.
Use of no clean flux is not acceptable.
 3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 4. Ref designators marked with an asterisk (***) cannot be substituted.
All other components can be substituted with equivalent MFG's components.

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