

Filename: PMP4289_REVA UPDATED_bom.xls

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PMP4289_REVA UPDATED BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
1	C1	100nF	Capacitor, Polyester, 630V, 10%	0.728 x 0.248 V	ECQE6104KF	Panasonic
1	C2	1000pF	Capacitor, Ceramic, 1000pF, 200V, X7R, ?0%	1206	Std	TDK
1	C3	47nF	Capacitor, Ceramic, 50V, X7R, ?0%	0805	Std	TDK
1	C4	1nF	Capacitor, Ceramic, 50V, X7R, ?0%	0805	Std	TDK
1	C5	0.1uF	Capacitor, Film, 0.1uF, 275VAC	0.689 x 0.217 inch	ECQU2A104ML	Panasonic
2	C6	330uF	Capacitor, Aluminum 330uF,160V 20%		EKM477M2CL35RR	SAMXON
	C7	330uF	Capacitor, Aluminum 330uF,160V 20%		EKM477M2CL35RR	SAMXON
1	C8	1uF	Capacitor, Ceramic, vV, [temp], [tol]	0805	GRM40yyyxxxKvv	muRata
1	C9	1uF	Capacitor, Ceramic, 50V, X7R, ?0%	0805	Std	TDK
1	C10	220uF	Electrolytic capacitor, 25V,220uF, 20%, 6.3X11.2	.250 X .250 inch	EEUFC1E221S	Panasonic
1	C11	2.2uF	Capacitor, Ceramic, 50V, X7R, ?0%	0805	Std	TDK
7	C12	0.1uF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
1	C13	22uF	Capacitor, Ceramic, 25V, X5R, ?0%	1210	Std	TDK
2	C14	220pF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
1	C15	100uF	Electrolytic capacitor, 25V,100uF, 20%, 6.3X11.2	.250 X .250 inch	EEUFC1E101S	Panasonic
3	C16	1nF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
1	C17	10pF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
1	C18	22pF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
1	C19	10uF	Capacitor, Ceramic, vV, [temp], [tol]	0805	GRM40yyyxxxKvv	muRata
1	C20	2.2uF	Capacitor, Ceramic, vV, [temp], [tol]	0805	GRM40yyyxxxKvv	muRata
1	C21	1000pF, Y1	CAP CER 1000PF 250VAC Y1 RAD, 20%	0.394 x 0.315 inch	CD85-E2GA102MYGS	TDK
	C22	220pF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
1	C23	68nF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
1	C24	2.2uF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
	C25	0.1uF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
2	C26	10nF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
	C27	0.1uF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
	C28	10nF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
	C29	0.1uF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
1	C30	220pF	Capacitor, Ceramic, vV, [temp], [tol]	0805	GRM40yyyxxxKvv	muRata
	C31	1nF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
1	C32	0.1u	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
	C33	0.1uF	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata
1	C34	22uF	Capacitor, Ceramic, 25V, X5R, ?0%	1210	Std	Std
3	C35	10n	Capacitor, Ceramic, Low Inductance, vV, [temp], [tol]	0603	GRM39yyyxxxKvvvA	muRata

1	C36	6.8n	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxKvvvA	muRata
	C37	10n	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxKvvvA	muRata
	C38	10n	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxKvvvA	muRata
	C39	0.1uF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxKvvvA	muRata
	C40	0.1uF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxKvvvA	muRata
	C41	1nF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxKvvvA	muRata
1	C42	220uF	CAP, AL ELEC, 220uF, 160V, 20%		EKM227M2CK30RR	SAMXON
1	C43	47uF/25V	Electrolytic capacitor, 25V,470uF, 20%, 6.3X11.2	.250 X .250 inch	EEUFC1E470S	Panasonic
1	C44	0.22uF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxKvvvA	muRata
2	D1	P6KE170A	DIODE,Transient Voltage Suppressor, 170V, 600W	DO-204AC	P6KE170A	Lision
1	D3	KBP06G	Diode, Bridge Rectifier, 1.5A, 600V	0.580 x 0.145 inch	KBP06G	Diodes Inc.
	D4	P6KE170A	DIODE,Transient Voltage Suppressor, 170V, 600W	DO-204AC	P6KE170A	Lision
2	D5	MURA120T3	Diode, Ultra Fast Rectifier, 1A, 200V	SMA	MURA120T3	ON Semiconductor
1	D6	MURS160	Diode, Rectifier, 1A, 1000V	SMA	US1M-13-F	Diodes Inc.
	D7	MURA120T3	Diode, Ultra Fast Rectifier, 1A, 200V	SMA	MURA120T3	ON Semiconductor
7	D8	BAS16	Diode, Switching, 200mA, 85V, 350mW	SOT-23	BAS16	Fairchild Semiconductor
	D9	BAS16	Diode, Switching, 200mA, 85V, 350mW	SOT-23	BAS16	Fairchild Semiconductor
	D10	BAS16	Diode, Switching, 200mA, 85V, 350mW	SOT-23	BAS16	Fairchild Semiconductor
	D11	BAS16	Diode, Switching, 200mA, 85V, 350mW	SOT-23	BAS16	Fairchild Semiconductor
	D12	BAS16	Diode, Switching, 200mA, 85V, 350mW	SOT-23	BAS16	Fairchild Semiconductor
	D13	BAS16	Diode, Switching, 200mA, 85V, 350mW	SOT-23	BAS16	Fairchild Semiconductor
	D14	BAS16	Diode, Switching, 200mA, 85V, 350mW	SOT-23	BAS16	Fairchild Semiconductor
1	D15	MURS360	Diode, Schottky, xx-A, xx-V	SMB	STD	Onsemi
1	E1	L	Pad, TH	0.038 inch		Emulation Tech
1	E2	N	Pad, TH	0.038 inch		Emulation Tech
1	E3	LED+	Pad, TH	0.038 inch		Emulation Tech
1	E4	LED-	Pad, TH	0.038 inch		Emulation Tech
2	E5	Dimming	Pad, TH	0.038 inch		Emulation Tech
3	E6	Gnd	Pad, TH	0.038 inch		Emulation Tech
	E7	Gnd	Pad, TH	0.038 inch		Emulation Tech
	E8	Dimming	Pad, TH	0.038 inch		Emulation Tech
	E9	Gnd	Pad, TH	0.038 inch		Emulation Tech
1	E10	+12Vs	Pad, TH	0.038 inch		Emulation Tech
1	F1	2A/250V	Fuse, TR5 Series, 4A, 250V	0.335	370 1400 041	Wickmann
1	HS1	{Value}	Heatsink, TO-220/218 veritcal	0.640 x 0.640	634-10ABP	Wakefield
1	L1	4mH	Common Mode Choke, 1.7A	0.760 x 0.425 inch	8101	J.W.Miller
1	L2	PCH-45-105	Inductor, Power, 1mH, 0.6A, 1.45 Ohms	0.430 x 0.450 inch	PCH-45-105	Coilcraft
1	L3	PCH-45-395	Inductor, Power, 1mH, 0.6A, 1.45 Ohms	0.430 x 0.450 inch	PCH-45-395	Coilcraft
1	Q1	2SK3767	MOSFET, N-ch, 600V, 2A, 4.5 Ohms	TO-220V	2SK3767	Toshiba
5	Q2	MMBT3904	Bipolar, NPN, 40V, 200mA, 330mW	SOT-23	MMBT3904LT1	Infineon Technologies

	Q3	MMBT3904	Bipolar, NPN, 40V, 200mA, 330mW	SOT-23	MMBT3904LT1	Infineon Technologies
	Q4	MMBT3904	Bipolar, NPN, 40V, 200mA, 330mW	SOT-23	MMBT3904LT1	Infineon Technologies
1	Q5	SPA11N80C3	MOSFET, N-ch, 800V, 0.45 Ohms	TO-220V	SPA06N80C3	Infineon Technologies
3	Q6	MMBT3906	Bipolar, PNP, 40V, 200mA, 250mW	SOT-23	MMBT3906LT1	Infineon Technologies
	Q7	MMBT3904	Bipolar, NPN, 40V, 200mA, 330mW	SOT-23	MMBT3904LT1	Infineon Technologies
1	Q8	MMBT3904	Bipolar, NPN, 40V, 200mA, 330mW	SOT-23	MMBT3904LT1	Infineon Technologies
	Q9	MMBT3906	Bipolar, PNP, 40V, 200mA, 250mW	SOT-23	MMBT3906LT1	Infineon Technologies
	Q10	MMBT3904	Bipolar, NPN, 40V, 200mA, 330mW	SOT-23	MMBT3904LT1	Infineon Technologies
	Q11	MMBT3906	Bipolar, PNP, 40V, 200mA, 250mW	SOT-23	MMBT3906LT1	Infineon Technologies
1	R1	100k	Resistor, Metal Film, 1/4 watt, ?5%	1206	Std	Std
2	R2	499k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R3	499k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
2	R4	120k	Resistor, 1/2W, yy%	1210	Std	Std
1	R5	1.00k	Resistor, Chip, 1/16W, x%	0603	Std	Std
3	R6	1k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R7	120k	Resistor, 1/2W, yy%	1210	Std	Std
5	R8	1k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R9	39k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R10	1k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R11	1	Resistor, Metal Film, 1/4 watt, ?5%	1206	Std	Std
2	R12	not used	Resistor, Chip, 1/16W, x%	0603	Std	Std
3	R13	10	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R14	10	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R15	1.2M	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R16	180k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R17	3.3k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R18	910K	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R19	5.1k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R20	1k	Resistor, Chip, 1/16W, x%	0603	Std	Std
3	R21	11k	Resistor, Chip, 1/16W, x%	0603	Std	Std
2	R22	1.1M	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R23	10	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R24	1.1M	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
5	R25	100k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R26	22.0k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R27	100	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R28	100k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R29	20k	Resistor, Chip, 1/16W, x%	0603	Std	Std
10	R30	10k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R31	3.6K	Resistor, Chip, 1/16W, x%	0603	Std	Std

3	R32	0	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R33	10k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R34	4.7k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R35	330	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R36	0.47	Resistor, Metal Film, 1/4 watt, ?5%	1206	Std	Std
1	R37	5.1k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R38	1.2k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R39	11k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R40	11k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R41	10k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R42	100k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R43	9.1k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R44	100k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R45	100k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R46	4.62k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R47	10k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R48	1.5k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R49	1K	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R50	10k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R51	0	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R52	10K	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R53	680K	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R54	10K	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R55	10K	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R56	3266W-102	Potentiometer, 100k, 1/4 Cermet	12-Turn	0.25x0.17	500k
	R57	1K	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R58	0	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R59	not used	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R61	1k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R62	2k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R63	1k	Resistor, Chip, 1/16W, x%	0603	Std	Std
2	R64	2.2M	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R65	2.2M	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R66	10k	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R67	10k	Resistor, Chip, 1/16W, x%	0603	Std	Std
2	R68	50	Resistor, Chip, 1/16W, x%	0603	Std	Std
	R69	50	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	T1	1mH	Flyback transformer, 1mH		SRW2425EG	TDK
1	U1	UCC28810D	IC, LED Lighting Power Controller	SO-8	UCC28810D	Texas Instruments
1	U2	TL103WAID	IC, Dual OpAmp With Internal Reference	SO8	TL103WAID	TI

2	U3	FOD817A	IC, Optocoupler, 70V, 80-160% CTR	SMT-4PDIP	FOD817A	Fairchild
	U4	FOD817A	IC, Optocoupler, 70V, 80-160% CTR	SMT-4PDIP	FOD817A	Fairchild
1	U5	TLC556ID	IC, Dual LinCMOS Timers	SO14	TLC556ID	TI
1	ZD1	18V	Diode, Zener, xxV, yy-mA	SOD-123	STD	STD
1	ZD2	12V	Diode, Zener, xxV, yy-mA	SOD-123	STD	STD
1	ZD3	LM4040D20	IC, Shunt Voltage Reference, 2.048V, ?%	SOT-23	LM4040D20IDBZR	Texas Instruments
1	ZD4	15V	Diode, Zener, xxV, yy-mA	SOD-123	STD	STD

- 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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