

PMP20612 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC100	1		PMP20612	Any	Printed Circuit Board	
C100, C107	2	220pF	VY2221K29Y5SG6TV7	Vishay-Bccomponents	220pF ±10% 440VAC Ceramic Capacitor Y5S Radial, Disc	5x7.5 mm
C101, C108	2	470pF	VY2471K29Y5SS63V7	Vishay-Bccomponents	CAP, CERM, 470 pF, 300 V, +/- 10%, VY2, 5x7.5 mm	5x7.5 mm
C102	1	0.22uF	B32922C3224M	TDK	CAP, Film, 0.22 µF, 630 V, +/- 20%, TH	B32922_12.5mm
C103	1	0.47uF	B32922C3474K	TDK	CAP, Film, 0.47 µF, 630 V, +/- 10%, TH	B32922_17.5mm
C104	1	47uF	500VXG47MEFCSN22X25	Rubycon	CAP, AL, 47 µF, 500 V, +/- 20%, TH	D22xL25mm
C105	1	0.22uF	ECW-FD2W224KQ	Panasonic Electronic Compon	0.22µF ±10% Film Capacitor 450V Polypropylene (PP), Metallized Radial	18x6.5mm
C106	1	0.47uF	450MPK474J	Rubycon	CAP, Film, 0.47 µF, 450 V, +/- 5%, TH	18x6.5mm
C109	1	0.47uF	C0603C474K8RACTU	Kemet	CAP, CERM, 0.47 µF, 10 V, +/- 10%, X7R, 0603	0603
C110	1	680pF	GRM188R71H681KA01D	MuRata	CAP, CERM, 680 pF, 50 V, +/- 10%, X7R, 0603	0603
C111	1	1200pF	GRM1885C1H122JA01D	MuRata	CAP, CERM, 1200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C112	1	1uF	C0603C105K4PACTU	Kemet	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0603	0603
C113	1	820pF	C0603C821J5GACTU	Kemet	CAP, CERM, 820 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C114	1	6.8uF	C3216X7R1V685K160AC	TDK	CAP, CERM, 6.8 µF, 35 V, +/- 10%, X7R, 1206	1206
C200, C219	2	0.1uF	C3225X7T2J104K160AC	TDK	CAP, CERM, 0.1 µF, 630 V, +/- 10%, X7T, 1210	1210
C201, C202	2	47uF	UCS2E470MHD1TO	Nichicon	CAP, AL, 47 µF, 250 V, +/- 20%, TH	D12.5xL20mm
C205	1	0.1uF	GRM31CR72E104KW03L	MuRata	CAP, CERM, 0.1 µF, 250 V, +/- 10%, X7R, 1206	1206
C206	1	0.022uF	GRM31BR72E223KW01L	MuRata	CAP, CERM, 0.022 µF, 250 V, +/- 10%, X7R, 1206	1206
C207	1	0.1uF	C1206C104K5RACTU	Kemet	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 1206	1206
C208, C217	2	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0402	0402
C209	1	DNP	GRM1555C1H220JA01D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C210	1	47pF	C0603C470J5GACTU	Kemet	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C211	1	2200pF	DE6E3KJ222MN3A	MuRata	CAP, CERM, 2200 pF, 300 V, +/- 20%, E, TH, 2- Leads, Body 9x7mm, Pin Spacing 7.5mm	TH, 2- Leads, Body 9x7mm, Pin Spacing 7.5mm
C212, C213	2	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0402	0402
C214	1	1000pF	06031C102MAT2A	AVX	CAP, CERM, 1000pF, 100V, +/-20%, X7R, 0603	0603
C215	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C216	1	2.2uF	GRM188R6YA225KA12D	MuRata	CAP, CERM, 2.2 µF, 35 V, +/- 10%, X5R, 0603	0603
C220	1	220uF	EEU-FM1E221	Panasonic	CAP ALUM 220UF 25V 20% RADIAL	RCAP_8x11.5mm
C221	1	22uF	12103D226MAT2A	AVX	CAP, CERM, 22 µF, 25 V, +/- 20%, X5R, 1210	1210
C222, C223	2	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
C224	1	1uF	CGA5L3X7R1H105K160AB	TDK	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C225	1	10uF	GRM31CR61E106KA12L	MuRata	CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 1206	1206
C226	1	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01 µF, 100 V, +/- 5%, X7R, 0603	0603
C227, C228	2	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603
C229	1	1uF	GRM31MR71H105KA88L	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 1206	1206
C230	1	22uF	1206YD226MAT2A	AVX	CAP, CERM, 22 µF, 16 V, +/- 20%, X5R, 1206_190	1206_190
C231	1	100pF	06033C101KAT2A	AVX	CAP, CERM, 100 pF, 25 V, +/- 10%, X7R, 0603	0603
C901	1	10uF	UPW1V100MDD6	Nichicon	CAP, AL, 10 µF, 35 V, +/- 20%, 0.95 ohm, TH	5x7mm
D100	1	600V	C3D02060F	Cree	Diode Silicon Carbide Schottky 600V 4A (DC) Through Hole TO-220-F2	TO-220-F2
D101, D214	2	100V	MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
D102	1	600V	GBU4J-BP	Micro Commercial Component	Diode, P-N-Bridge, 600 V, 4 A, TH	GBU
D104	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D200, D202	2	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D201, D206	2	600V	MURS360T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 3 A, SMC	SMC
D203	1	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
D204	1	16V	MMSZ5246BS-7-F	Diodes Inc.	Diode, Zener, 16 V, 200 mW, SOD-323	SOD-323
D205	1	600V	C3D04060A	Cree	Diode, Schottky, 600 V, 4 A, TH	TO-220-F2
D207	1	5.1V	MMSZ5231B-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 500 mW, SOD-123	SOD-123
D208	1	30V	BAT54A-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
D209	1	120V	SMAJ120A	Littelfuse	Diode, TVS, Uni, 120 V, SMA	SMA
D210	1	150V	SS1150-LTP	Micro Commercial Component	DIODE SCHOTTKY 150V 1A DO214AC	SMA
D211	1	1.7V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000V, 1A, SMA	SMA
D212	1		BAS20HT1G		DIODE SWITCH 200V 200MA SOD323	SOD-323
D213	1	100V	SS110-TP	Micro Commercial Component	Diode, Schottky, 100 V, 1 A, SMA	SMA
D902	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMA	SMA
D903	1	5.1V	MMSZ5231BS-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 200 mW, SOD-323	SOD-323
F100	1		37213150001	Littelfuse	Fuse, 3.15 A, 250VAC/VDC, TH	TR5 fuse 8.5mm DIA
H100	1		513102B02500G	Aavid	Extruded heat sink with radial fins	Heat Sink TO-220 Aluminum
H200	1		578622B03200G	Aavid	Twin Channel Style Heat Sink, TO-220, Vertical	Twin Channel Style Heat Sink, TO-220
H201	1		6021BG	Aavid	Heat Sink TO-220 Aluminum	Heat Sink TO-220 Aluminum
J100	1		1-1318301-3	TE Connectivity	Header, 312mil, 3x1, Tin, TH	19.7x10.7 x8.5 mm
J200	1		282856-3	TE Connectivity	Receptacle, 3x1, 5mm, R/A, TH	Receptacle, 3x1, 5mm, R/A, TH
L100	1	100µH	7447021	Würth Elektronik	100µH Unshielded Toroidal Inductor 2A 80 mOhm Max Radial	IND_TORROID_15.8x7.5mm
L101	1	1.6mH	4815838R	Mintronix	Inductor, 1.6 mH, 4.3 A, 0.525 ohm, TH	44.5x52mm
L102	1	10mH	744824310	Würth Elektronik	Coupled inductor, 10 mH, 3 A, 0.105 ohm, TH	18.5x33x27.5 mm
Q100	1	600V	IPP60R180C7	Infineon Technologies	MOSFET N-CH 600V 13A TO220-3	TO-220AB
Q200, Q203	2	650V	STF18N65M2	STMicroelectronics	MOSFET N-CH 650V 12A TO220FP	TO-220FP
Q201, Q207	2	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
Q202	1	40 V	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23
Q204	1	60 V	MMBT2907A	Fairchild Semiconductor	Transistor, PNP, 60 V, 0.8 A, SOT-23	SOT-23
Q205, Q206	2	40 V	MMBT4403	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.6 A, SOT-23	SOT-23
R100, R102, R103	3	432k	CRCW1206432KFKEA	Vishay-Dale	RES, 432 k, 1%, 0.25 W, 1206	1206
R101	1	10	CRCW060310R0JNEAHP	Vishay-Dale	RES, 10, 5%, 0.25 W, 0603	0603
R104	1	20k	CRCW120620K0JNEA	Vishay-Dale	RES, 20 k, 5%, 0.25 W, 1206	1206
R105, R106, R108	3	0.2	MCR25JZHFLR200	Rohm	RES, 0.2, 1%, 0.5 W, 1210	1210
R107, R110, R113	3	332k	CRCW1206332KFKEA	Vishay-Dale	RES, 332 k, 1%, 0.25 W, 1206	1206
R111	1	221	CRCW0603221RFKEA	Vishay-Dale	RES, 221, 1%, 0.1 W, 0603	0603
R116	1	5.90k	CRCW06035K90FKEA	Vishay-Dale	RES, 5.90 k, 1%, 0.1 W, 0603	0603
R117	1	16.2k	CRCW060316K2FKEA	Vishay-Dale	RES, 16.2 k, 1%, 0.1 W, 0603	0603
R118	1	11.5k	CRCW060311K5FKEA	Vishay-Dale	RES, 11.5 k, 1%, 0.1 W, 0603	0603
R200	1	3.0	CRCW06033R00JNEA	Vishay-Dale	RES, 3.0, 5%, 0.1 W, 0603	0603
R202	1	0.02	WSLP1206R0200FEA	Vishay-Dale	RES, 0.02, 1%, 1 W, 1206	1206
R203, R229	2	4.99k	CR0603-FX-4991ELF	Bourns	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R204, R237	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R205, R206	2	4.75	RC0603FR-074R75L	Yageo America	RES, 4.75, 1%, 0.1 W, 0603	0603
R207	1	DNP	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
R208	1	45.3k	CRCW060345K3FKEA	Vishay-Dale	RES, 45.3 k, 1%, 0.1 W, 0603	0603
R209	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R210	1	15	CRCW060315R0JNEA	Vishay-Dale	RES, 15 ohm, 5%, 0.1W, 0603	0603
R211	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R212	1	100k	CRCW0805100KJNEA	Vishay-Dale	RES, 100k ohm, 5%, 0.125W, 0805	0805
R213	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0k ohm, 1%, 0.1W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R214	1	590	CRCW0603590RFKEA	Vishay-Dale	RES, 590, 1%, 0.1 W, 0603	0603
R215	1	33.2k	CRCW040233K2FKED	Vishay-Dale	RES, 33.2 k, 1%, 0.063 W, 0402	0402
R216	1	27.4k	CRCW060327K4FKEA	Vishay-Dale	RES, 27.4 k, 1%, 0.1 W, 0603	0603
R217	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
R218, R219	2	0.62	ERJ-8BQFR62V	Panasonic Electronic Compon	RES SMD 0.62 OHM 1% 1/2W 1206	1206
R220	1	0.68	ERJ-8BQFR68V	Panasonic Electronic Compon	RES SMD 0.68 OHM 1% 1/2W 1206	1206
R221	1	187k	CRCW1206187KFKEA	Vishay-Dale	RES, 187 k, 1%, 0.25 W, 1206	1206
R223	1	9.09k	CRCW06039K09FKEA	Vishay-Dale	RES, 9.09 k, 1%, 0.1 W, 0603	0603
R224, R231	2	20.5k	CRCW060320K5FKEA	Vishay-Dale	RES, 20.5 k, 1%, 0.1 W, 0603	0603
R225	1	1.05k	CRCW06031K05FKEA	Vishay-Dale	RES, 1.05 k, 1%, 0.1 W, 0603	0603
R226	1	0	CRCW1206000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
R227	1	15.0	CRCW060315R0FKEA	Vishay-Dale	RES, 15.0 ohm, 1%, 0.1W, 0603	0603
R228	1	48.7k	CRCW060348K7FKEA	Vishay-Dale	RES, 48.7 k, 1%, 0.1 W, 0603	0603
R230, R234, R902	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R232	1	2.05k	CRCW06032K05FKEA	Vishay-Dale	RES, 2.05 k, 1%, 0.1 W, 0603	0603
R233, R235	2	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
R236	1	330	CRCW1206330RJNEA	Vishay-Dale	RES, 330, 5%, 0.25 W, 1206	1206
R901	1	10.0	CRCW120610R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 1206	1206
RT100	1	4.70	B57153S0479M000	TDK	Thermistor NTC, 4.70 ohm, 20%, 8.5mm Disc	8.5mm Disc
RV100	1		S10K275E2	EPCOS Inc	Varistor 275V RMS 10MM Radial, TH	10mm Radial
T200	1	750 uH	760301302	Wurth Elektronik eiSos	Transformer, 750 uH, TH	10.5x10.5mm
T201	1	600uH	4815839R	Mintronix	Transformer, 600 uH, TH	44.5x52mm
T202	1	1.5mH	4815840R	Mintronix	Transformer, 1500 uH, TH	14.5x13.5mm
TP200, TP202	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP201, TP203	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U100	1		UCC28180DR	Texas Instruments	8-PIN CONTINUOUS CONDUCTION MODE (CCM) PFC CONTROLLER, D0008A (SOIC-8)	D0008A
U200, U206	2		PC817X4NSZ0F		Opto-Isolator, 1 Channel, TH	DIP-4
U201	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A
U202	1		INA180A2IDBV	Texas Instruments	Low- and High-Side Measurement, Multichannel, Voltage Output, Current-Sense Amplifier, DBV0005A (SOT-5)	DBV0005A
U203	1		LM358M	Texas Instruments	Low Power Dual Op Amp, D0008A	D0008A
U204	1		LM4040C25IDBZR	Texas Instruments	Precision Micropower Shunt Voltage Reference, 0.5% accuracy, 2.5 V, 15 ppm / degC, 15 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U205	1		UCC28910DR	Texas Instruments	High-Voltage Flyback Switcher with Primary-Side Regulation and Constant-Current Control, D0007A (SOIC-7)	D0007A
C115	0	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C203, C204	0	220uF	UPT2E221MHD	Nichicon	220uF 250V Aluminum Capacitors Radial, Can 5000 Hrs @ 105°C	D16xL25mm
C218	0	DNP	GRM1555C1H220JA01D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
D103	0	100V	MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
R109, R112, R115	0	10.0Meg	CRHV1206AF10M0FKE5	Vishay-Dale	RES, 10.0 M, 1%, 0.3 W, 1206	1206
R114	0	1.15Meg	CRCW06031M15FKEA	Vishay-Dale	RES, 1.15 M, 1%, 0.1 W, 0603	0603
R119	0	806k	CRCW0603806KFKEA	Vishay-Dale	RES, 806 k, 1%, 0.1 W, 0603	0603
R201	0	2.2Meg	CRCW12062M20JNEA	Vishay-Dale	RES, 2.2 M, 5%, 0.25 W, 1206	1206
R222	0	DNP	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
U101	0		LM8364BALMF20	Texas Instruments	IC DETECT UNDERVOLT 2V SOT-23-5	MF05A

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