

**PMP20694 REV A Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC100	1		PMP20694	Any	Printed Circuit Board	
C100, C108	2	100pF	DE2B3KY101KN3AU02F	MuRata	CAP CER 100PF 300VAC RADIAL	Radial D7x5mm
C101, C109	2	220pF	DE2B3KY221KN3AU02F	MuRata	CAP CER 220PF 300VAC RADIAL	Radial D7x5mm
C102	1	47pF	GRM31A7U3A470JW31D	MuRata	CAP, CERM, 47 pF, 1000 V, +/- 5%, U2J, 1206	1206
C103, C104	2	0.47uF	890334025039CS	Wurth Elektronik	CAP, Film, 0.47 µF, 310 V, +/- 10%, TH	18x8mm
C105	1	0.47uF	450MPK474J	Rubycon	CAP, Film, 0.47 µF, 450 V, +/- 5%, TH	18x6.5mm
C106	1	1uF	450MPK105J	Rubycon	CAP, Film, 1 µF, 450 V, +/- 5%, TH	18x9.5mm
C107	1	150uF	500MXG150MEFCSN22X55	Rubycon	CAP ALUM 150UF 20% 500V SNAP	D22xL37mm
C110	1	1000pF	06035A102KAT2A	AVX	CAP, CERM, 1000pF, 50V, +/-10%, C0G/NP0, 0603	0603
C111	1	0.22uF	885012206048	Wurth Elektronik	CAP, CERM, 0.22 µF, 16 V, +/- 10%, X7R, 0603	0603
C112	1	1uF	C0603C105K8PACTU	Kemet	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0603	0603
C113	1	18pF	06035A180JAT2A	AVX	CAP, CERM, 18pF, 50V, +/-5%, C0G/NP0, 0603	0603
C114	1	0.22uF	12065C224KAT2A	AVX	CAP, CERM, 0.22uF, 50V, +/-10%, X7R, 1206	1206
C115	1	220pF	06035A221FAT2A	AVX	CAP, CERM, 220pF, 50V, +/-1%, C0G/NP0, 0603	0603
C116, C117	2	0.1uF	GRM155R61C104KA88D	MuRata	CAP, CERM, 0.1uF, 16V, +/-10%, X5R, 0402	0402
C118	1	6.8uF	UCA2W6R8MPD1TD	Nichicon	CAP ALUM 6.8UF 20% 450V RADIAL	D10xH20mm
C119	1	220uF	EEU-FM1E221	Panasonic	CAP ALUM 220UF 25V 20% RADIAL	RCAP_8x11.5mm
C120	1	22uF	12103D226MAT2A	AVX	CAP, CERM, 22 µF, 25 V, +/- 20%, X5R, 1210	1210
C121, C122, C125, C218	4	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
C123, C212	2	1uF	CGA5L3X7R1H105K160AB	TDK	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C124	1	0.1uF	06033D104KAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-10%, X5R, 0603	0603
C126	1	2.2uF	C0603C225K8PACTU	Kemet	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0603	0603
C127	1	10uF	GRM31CR61E106KA12L	MuRata	CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 1206	1206
C128	1	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603
C129	1	1uF	GRM31MR71H105KA88L	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 1206	1206
C130	1	22uF	1206YD226MAT2A	AVX	CAP, CERM, 22 µF, 16 V, +/- 20%, X5R, 1206_190	1206_190
C131	1	1000pF	08051A102JAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805
C132	1	6800pF	C0603C682J5RACTU	Kemet	CAP, CERM, 6800pF, 50V, +/-5%, X7R, 0603	0603
C200	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0603	0603
C201, C211	2	0.1uF	12065C104KAT2A	AVX	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 1206	1206
C203	1	1uF	12063C105KAT2A	AVX	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 1206	1206
C204	1	330uF	ELXZ500ELL331MJ25S	Chemi-Con	CAP, AL, 330 µF, 50 V, +/- 20%, AEC-Q200 Grade 2, TH	D10xL25mm
C205, C213	2	100pF	06035A101FAT2A	AVX	CAP, CERM, 100pF, 50V, +/-1%, C0G/NP0, 0603	0603
C206, C207, C208, C209, C210	5	3.3uF	C3225X5R1H335K250AB	TDK	CAP, CERM, 3.3 µF, 50 V, +/- 10%, X5R, 1210	1210
C214	1	100pF	1206AC101KAT1A	AVX Corporation	CAP CER 100PF 1KV X7R 1206	1206
C215, C299	2	0.015uF	121MPE153J	Rubycon	CAP, Film, 0.015 µF, 1250 V, +/- 5%, TH	18x7.5x13mm
C217	1	2200pF	AY2222M35Y5US63L7	Vishay-Bccomponents	CAP, CERM, 2200 pF, 300 V, +/- 20%, Y5U, AEC-Q200 Grade 1, D9.5xT5mm	D9.5xT5mm
C219	1	0.47uF	12063C474KAT2A	AVX	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 1206	1206
C220	1	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01 µF, 100 V, +/- 5%, X7R, 0603	0603
C221	1	100pF	06033C101KAT2A	AVX	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	0603
C222, C224	2	1uF	C0603C105K4PACTU	Kemet	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	0603
C223	1	0.01uF	GRM188R61H103KA01D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X5R, 0603	0603
D100	1	1.2V	1N5406	Vishay-Semiconductor	Diode, Switching-Bridge, 600V, 3A, TH	DO-201AD
D101	1	0.98V	MUR860G	ON Semiconductor	Diode, Ultrafast, 600V, 8A, TH	TO-220AC
D102	1	420V	GBU6J-BP	Micro Commercial Component	Diode, Switching-Bridge, 420 V, 6 A, TH	GBU

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
D103	1	1V	BAT42WS	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D104, D107	2	1.7V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000V, 1A, SMA	SMA
D105	1	150V	SS1150-LTP	Micro Commercial Component	DIODE SCHOTTKY 150V 1A DO214AC	SMA
D106	1	120V	SMAJ120A	Littelfuse	Diode, TVS, Uni, 120 V, SMA	SMA
D108	1		BAS20HT1G		DIODE SWITCH 200V 200MA SOD323	SOD-323
D109	1	100V	SS110-TP	Micro Commercial Component	Diode, Schottky, 100 V, 1 A, SMA	SMA
D110, D111	2	200V	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200V, 0.2A, SOD-123	SOD-123
D200, D202	2	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
D201	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, SMA	SMA
D203, D204	2	120V	STPS20120D	STMicroelectronics	DIODE SCHOTTKY 120V 20A TO220AB	TO-220AC
D205	1	0.63V	BAV99WT1G	Fairchild Semiconductor	Diode, P-N, 70V, 0.2A, SOT-323	SOT-323
D206	1	12V	MMSZ5242BS-7-F	Diodes Inc.	Diode, Zener, 12 V, 200 mW, SOD-323	SOD-323
D207	1	0.35V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D208	1	1.4V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
D209, D210	2	20V	MMSZ5250B-7-F	Diodes Inc.	Diode, Zener, 20V, 500mW, SOD-123	SOD-123
F100	1		37213150001	Littelfuse	Fuse, 3.15 A, 250VAC/VDC, TH	TR5 fuse 8.5mm DIA
H200, H201	2		513102B02500G	Aavid	Extruded heat sink with radial fins	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		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
L100	1		PFC3125ER-231K06B-00	TDK	Transformer, 230 uH, TH	26x33mm
L101	1	150uH	7447076	Würth Elektronik	Inductor, Toroid, Powdered Iron, 150 µH, 5A, TH	
L102	1	10mH	744824310	Würth Elektronik	Coupled inductor, 10 mH, 3 A, 0.105 ohm, TH	18.5x33x27.5 mm
L200	1	1uH	SRN6045TA-1R0Y	Bourns	Inductor, Shielded, Ferrite, 1 µH, 8 A, 0.012 ohm, AEC-Q200 Grade 1, SMD	6.0x6.0x4.5mm
Q100	1		IPA65R190C7XKSA1	Infineon Technologies	MOSFET N-CH 650V 8A TO220	TO-220AB
Q101	1	40 V	MMBT4403	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.6 A, SOT-23	SOT-23
Q102	1	0.75V	MMBT4403	Fairchild Semiconductor	Transistor, PNP, 40V, 0.6A, SOT-23	SOT-23
Q103	1	60V	2N7002	Fairchild Semiconductor	MOSFET, N-CH, 60 V, 115 A, SOT-23	SOT-23
Q200, Q201	2		IPP65R310CFD	Infineon Technologies	MOSFET N-CH 650V 11.4A TO220	TO-220AB
R100, R104	2	750k	CRCW1206750KFKEA	Vishay-Dale	RES, 750k ohm, 1%, 0.25W, 1206	1206
R101	1	220k	CRCW1206220KJNEA	Vishay-Dale	RES, 220 k, 5%, 0.25 W, 1206	1206
R102	1	301k	CRCW1206301KFKEA	Vishay-Dale	RES, 301k ohm, 1%, 0.25W, 1206	1206
R103	1	3.0	CRCW06033R00JNEA	Vishay-Dale	RES, 3.0 ohm, 5%, 0.1W, 0603	0603
R105, R216	2	10.0k	CRCW120610K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.25W, 1206	1206
R106, R107, R108, R109, R110	5	0.68	ERJ-1TRQFR68U	Panasonic	RES, 0.68, 1%, 1 W, 2512	2512
R111, R112, R113	3	511k	CRCW1206511KFKEA	Vishay-Dale	RES, 511k ohm, 1%, 0.25W, 1206	1206
R114, R115, R116	3	560k	CRCW0805560KJNEA	Vishay-Dale	RES, 560k ohm, 5%, 0.125W, 0805	0805
R118	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10k ohm, 5%, 0.1W, 0603	0603
R119	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0k ohm, 5%, 0.1W, 0603	0603
R120	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R121	1	8.66k	CRCW06038K66FKEA	Vishay-Dale	RES, 8.66 k, 1%, 0.1 W, 0603	0603
R122	1	0	ERJ-2GEOR00X	Panasonic	RES, 0 ohm, 5%, 0.063W, 0402	0402
R123	1	2.2Meg	CRCW06032M20JNEA	Vishay-Dale	RES, 2.2Meg ohm, 5%, 0.1W, 0603	0603
R124	1	619k	CRCW0402619KFKED	Vishay-Dale	RES, 619k ohm, 1%, 0.063W, 0402	0402
R125, R126	2	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
R127, R133	2	499k	CRCW1206499KFKEA	Vishay-Dale	RES, 499k ohm, 1%, 0.25W, 1206	1206
R128, R135, R145	3	1.0Meg	CRCW12061M00JNEA	Vishay-Dale	RES, 1.0Meg ohm, 5%, 0.25W, 1206	1206
R129	1	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206

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R130, R137	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R131	1	12k	CRCW060312K0JNEA	Vishay-Dale	RES, 12 k, 5%, 0.1 W, 0603	0603
R132, R136	2	100	CRCW0402100RFKED	Vishay-Dale	RES, 100 ohm, 1%, 0.063W, 0402	0402
R134, R217	2	15.0	CRCW060315R0FKEA	Vishay-Dale	RES, 15.0 ohm, 1%, 0.1W, 0603	0603
R138	1	2.00k	ERJ-8ENF2001V	Panasonic	RES, 2.00 k, 1%, 0.25 W, 1206	1206
R139	1	48.7k	CRCW060348K7FKEA	Vishay-Dale	RES, 48.7 k, 1%, 0.1 W, 0603	0603
R140	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603	0603
R141	1	23.7k	CRCW060323K7FKEA	Vishay-Dale	RES, 23.7 k, 1%, 0.1 W, 0603	0603
R142	1	16.2k	CRCW060316K2FKEA	Vishay-Dale	RES, 16.2 k, 1%, 0.1 W, 0603	0603
R143	1	20.5k	CRCW060320K5FKEA	Vishay-Dale	RES, 20.5 k, 1%, 0.1 W, 0603	0603
R144	1	2.05k	CRCW06032K05FKEA	Vishay-Dale	RES, 2.05 k, 1%, 0.1 W, 0603	0603
R146	1	41.2k	CRCW060341K2FKEA	Vishay-Dale	RES, 41.2 k, 1%, 0.1 W, 0603	0603
R200, R208	2	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R201	1	2.2	CRCW08052R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.125 W, 0805	0805
R202, R209, R225	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R203	1	1.00	ERJ-6RQF1R0V	Panasonic	RES, 1.00 ohm, 1%, 0.125W, 0805	0805
R204	1	0.5	CSR2512FGR500	Stackpole Electronics Inc	RES, 0.5, 1%, 2 W, 2512	2512
R205, R207	2	51.1	CRCW060351R1FKEA	Vishay-Dale	RES, 51.1, 1%, 0.1 W, 0603	0603
R210	1	10.0k	CRCW120610K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.25 W, 1206	1206
R212	1	4.99k	CRCW12064K99FKEA	Vishay-Dale	RES, 4.99k ohm, 1%, 0.25W, 1206	1206
R213	1	511	CRCW0603511RFKEA	Vishay-Dale	RES, 511, 1%, 0.1 W, 0603	0603
R214	1	332	CRCW0603332RFKEA	Vishay-Dale	RES, 332, 1%, 0.1 W, 0603	0603
R215, R219, R226	3	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R218	1	33.2k	CRCW060333K2FKEA	Vishay-Dale	RES, 33.2 k, 1%, 0.1 W, 0603	0603
R220	1	68.1	CRCW060368R1FKEA	Vishay-Dale	RES, 68.1, 1%, 0.1 W, 0603	0603
R221	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0k ohm, 1%, 0.1W, 0603	0603
R222	1	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, 0603	0603
R223	1	1.0Meg	CRCW06031M00JNEA	Vishay-Dale	RES, 1.0Meg ohm, 5%, 0.1W, 0603	0603
R224	1	2.0k	CRCW06032K00JNEA	Vishay-Dale	RES, 2.0k ohm, 5%, 0.1W, 0603	0603
R227	1	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49k ohm, 1%, 0.1W, 0603	0603
R228	1	51.1k	CRCW060351K1FKEA	Vishay-Dale	RES, 51.1k ohm, 1%, 0.1W, 0603	0603
R229	1	2.00k	RC0603FR-072KL	Yageo America	RES, 2.00k ohm, 1%, 0.1W, 0603	0603
R230	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
RT100	1	2.2 ohm	B57237S229M	TDK	Thermistor NTC, 2.2 ohm, 20%, 15x7mm	15x7mm
RV100	1		S10K275E2	EPCOS Inc	Varistor 275V RMS 10MM Radial, TH	10mm Radial
T100	1	1.5mH	750316711	Würth Elektronik	Transformer, 1500 uH, EE13/7/4, TH	EE13/7/4
T200	0	310uH	750316706	Würth Elektronik	Transformer, 310 uH, ERL35, TH	ERL35
TP200	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP201	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U100	1		UCC28051DR	Texas Instruments	PFC Controller for low to medium power applications requiring compliance with IEC 61000-3-2, D0008A (SOIC-8)	D0008A
U101	1		TMP300BIDCKR	Texas Instruments	Resistor-Programmable, up to 18V-Capable Temp Switch and Analog Out Sensor, DCK0006A (SOT-6)	DCK0006A
U102	1		LM393D	Texas Instruments	Dual Comparator, D0008A	D0008A
U103	1		UCC28910DR	Texas Instruments	High-Voltage Flyback Switcher with Primary-Side Regulation and Constant-Current Control, D0007A (SOIC-7)	D0007A
U104	1		LM4040C50QDBZR	Texas Instruments	Precision Micropower Shunt Voltage Reference, 3-pin SOT-23	MF03A
U200	1		UCC27714D	Texas Instruments	High-Speed, 4-A, 600-V High-Side Low-Side Gate Driver, D0014A (SOIC-14)	D0014A

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U201	1		UCC25600D	Texas Instruments	High-Performance Resonant Mode Controller with Voltage Control, 50 % Duty Cycle, -40 to +125 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br)	D0008A
U202, U204	2		FOD817D300	Fairchild/ON Semiconductor	OPTOISOLATOR 5KV TRANSISTOR 4DIP	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U203	1		TL431AIDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
C202, C216	0	DNP	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output
R117	0	43.2k	CRCW060343K2FKEA	Vishay-Dale	RES, 43.2k ohm, 1%, 0.1W, 0603	0603
R206, R211	0	DNP	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output

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