

PMP20873 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB	1		PMP20873	Any	Printed Circuit Board	
C100, C101, C104, C105	4	2200pF	DE2E3KY222MA2BM01	MuRata	CAP, CERM, 2200pF, 250V, +/-20%, KY, Radial D8x5mm	Radial D8x5mm
C102	1	0.47uF	ECQ-U2A474ML	Panasonic	CAP, Film, 0.47 μ F, 275 V, +/- 20%, TH	Radial 25x8.5x18.5
C103	1	1uF	R46KN-4100--P1 M	Panasonic	CAP, Film, 1uF, 275V, +/-20%, TH	Radial 26x12x19.5
C107	1	1uF	450MPK105J	Rubycon	CAP, Film, 1 μ F, 450 V, +/- 5%, TH	18x9.5mm
C108, C109, C129, C130, C131, C132, C136, C137, C138	9	0.047uF	GRM32DR72J473KW01L	MuRata	CAP, CERM, 0.047 μ F, 630 V, +/- 10%, X7R, 1210	1210
C110	1	2200 pF	C921U222MYWDBA7317	Kemet	CAP, CERM, 2200pF, 250V, +/-20%, E, Cap, 7x12x9 mm TH	
C111, C112	2	10uF	0805YD106MAT2A	AVX	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0805	0805
C113, C126, C127, C222, C224, C320, C322	7	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
C114, C122, C123	3	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1uF, 6.3V, +/-10%, X7R, 0402	0402
C115	1	0.01uF	C0603X103K5RACTU	Kemet	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603
C116	1	1000pF	C1608X7R1H102K	TDK	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0603	0603
C117	1	1uF	GRM185R60J105KE26D	MuRata	CAP, CERM, 1uF, 6.3V, +/-10%, X5R, 0603	0603
C118	1	0.022uF	GRM155R70J223KA01D	MuRata	CAP, CERM, 0.022uF, 6.3V, +/-10%, X7R, 0402	0402
C119	1	1000pF	C1005X7R1H102K	TDK	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0402	0402
C120, C121	2	1000pF	GRM155R60J102KA01D	MuRata	CAP, CERM, 1000pF, 6.3V, +/-10%, X5R, 0402	0402
C124, C125	2	0.056uF	GA355XR7GB563KW06L	MuRata	CAP, CERM, 0.056 μ F, 250 V, +/- 10%, X7R, 2220	2220
C133, C134, C135	3	0.22uF	GRM55DR72J224KW01L	MuRata	CAP, CERM, 0.22 μ F, 630 V, +/- 10%, X7R, 2220	2220
C188	1	1000pF	GRM188R71C102KA01D	MuRata	CAP, CERM, 1000pF, 16V, +/-10%, X7R, 0603	0603
C200, C203, C206, C219, C220	5	0.1uF	GRM155R60J104KA01D	MuRata	CAP, CERM, 0.1uF, 6.3V, +/-10%, X5R, 0402	0402
C201	1	1000pF	GRM155R61A102KA01D	MuRata	CAP, CERM, 1000pF, 10V, +/-10%, X5R, 0402	0402
C202, C205	2	0.01uF	GRM155R70J103KA01D	MuRata	CAP, CERM, 0.01uF, 6.3V, +/-10%, X7R, 0402	0402
C204	1	4700pF	GRM155R60J472KA01D	MuRata	CAP, CERM, 4700pF, 6.3V, +/-10%, X5R, 0402	0402
C207, C223	2	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603	0603
C208, C218	2	2.2uF	C1005X5R1A225K050BC	TDK	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0402	0402
C209, C210	2	4.7uF	CL05A475MQ5NRNC	Samsung Electro-Mechanics A	CAP, CER, 4.7UF, 6.3V, 20%, X5R, 0402	0402
C211, C212	2	2200pF	C1608X7R1H222K	TDK	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C213	1	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	0402
C214, C215	2	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, COG/NP0, 0402	0402
C216, C217	2	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 μ F, 25 V, +/- 10%, X7R, 0603	0603
C221	1	100uF	T495X107K016ATE100	Kemet	CAP, TA, 100 μ F, 16 V, +/- 10%, 0.1 ohm, SMD	7343-43
C288	1	2.2uF	12063D225KAT2A	AVX	CAP, CERM, 2.2 μ F, 25 V, +/- 10%, X5R, 1206	1206
C300	1	0.033uF	GRM32DR72J333KW01L	MuRata	CAP, CERM, 0.033 μ F, 630 V, +/- 10%, X7R, 1210	1210
C301	1	1000pF	C2012X7R2E102K	TDK	CAP, CERM, 1000 pF, 250 V, +/- 10%, X7R, 0805	0805
C303	1	330uF	25ZL330MEFC10X12.5	Rubycon	CAP, AL, 330 μ F, 25 V, +/- 20%, 0.053 ohm, TH	TH, 2-Leads, Body 10x12.5mm, Pin Spacing 5mm

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C304, C306, C323	3	3.3uF	GRM21BR71E335KA73L	MuRata	CAP, CERM, 3.3uF, 25V, +/-10%, X7R, 0805	0805
C305	1	4.7uF	293D475X9010B2TE3	Vishay-Sprague	CAP, TA, 4.7uF, 10V, +/-10%, 3.4 ohm, SMD	3528-21
C307, C308	2	10uF	C0805C106K8PACTU	Kemet	CAP, CERM, 10 uF, 10 V, +/- 10%, X5R, 0805	0805
C309	1	0.047uF	C0805C473K5RACTU	Kemet	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, 0805	0805
C310	1	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206	1206
C311	1	68pF	06035A680JAT2A	AVX	CAP, CERM, 68pF, 50V, +/-5%, C0G/NP0, 0603	0603
C312	1	1000pF	06035A102KAT2A	AVX	CAP, CERM, 1000pF, 50V, +/-10%, C0G/NP0, 0603	0603
C313	1	0.022uF	C0603C223K3RACTU	Kemet	CAP, CERM, 0.022uF, 25V, +/-10%, X7R, 0603	0603
C314, C321	2	220uF	TPSV227K016R0050	AVX	CAP, TA, 220 uF, 16 V, +/- 10%, 0.05 ohm, SMD	7361-38
C315, C326	2	22uF	1206YD226MAT2A	AVX	CAP, CERM, 22 uF, 16 V, +/- 20%, X5R, 1206	1206
C316, C317	2	0.1uF	C1005X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, C0G/NP0, 0402	0402
C318	1	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10uF, 10V, +/-10%, X7R, 0805	0805
C319	1	2200pF	GRM155R71E222KA01D	MuRata	CAP, CERM, 2200pF, 25V, +10%, X7R, 0402	0402
C324	1	47uF	12106D476MAT2A	AVX	CAP, CERM, 47 uF, 6.3 V, +/- 20%, X5R, 1210	1210
D100, D101	2	800V	US1K-13-F	Diodes Inc.	Diode, Fast Rectifier, 800 V, 1 A, SMA	SMA
D102, D201, D202	3	0.65V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOT-23	SOT-23
D103	1	1V	GBU8J-BP	Micro Commercial Component	Diode, Switching-Bridge, 420V, 8A, TH	GBU
D106	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600V, 1A, SMA	SMA
D107, D108	2	30V	STPS130A	STMicroelectronics	Diode, Schottky, 30 V, 1 A, SMA	SMA
D300, D302, D304	3	100V	SS110-TP	International Rectifier	Diode, Schottky, 100V, 1A, SMB	SMB
D301	1	1.7V	CGRM4007-G	Diodes Inc.	Diode, Ultrafast, 800V, 1A, SMA	SOD-123
D303	1	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
D305	1	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
D306	1	9.1V	MMSZ4696T1G	ON Semiconductor	Diode, Zener, 9.1 V, 500 mW, SOD-123	SOD-123
F100	1		0217015.MXEP	Littelfuse	Fuse, 15 A, 250 V, TH	D5.5xL21.5mm
H1, H2, H3, H4, H9, H11	6		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8, H10, H12	6		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J100	1		703W-00/54	Qualtek Electronics Corporation	AC Receptacle, 10A 250VAC	20X50X28.7mm
J102	1		282841-2	TE Connectivity	Terminal Block, 2x1, 5.08mm, TH	10.16x15.2x9mm
J103	1		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
J104	1		TSW-104-07-G-D	Samtec	Header, 100mil, 4x2, Gold, TH	4x2 Header
J106, J107, J203, J204, J205	5		0312-0-15-15-34-27-10-0	Mill-Max	Pin Receptacle, .032-.046" .075" Dia, Gold, TH	Pin Receptacle
J200	1		0448120024	Molex	Receptacle, 2.54mm, 6x1, Gold, TH	Receptacle, 2.54mm, 6x1, TH
J201	1		851-43-004-20-001000	Mill-Max	SOCKET .050" GRID SIP 4 POS R/A, TH	R/A 4x1 receptacle
J202	1		TSW-105-07-G-D	Samtec	Header, 100mil, 5x2, Gold, TH	5x2 Header
K100	1		G5Q-1A4 DC12	Omron Electronic Components	Relay, SPST-NO (1 Form A), 10 A, 12 VDC, TH	20x10mm
L100, L101	2	900uH	750318527	Würth Elektronik	Coupled inductor, 0.9 mH, A, ohm, TH	D1064xT570mil
L102	1	487uH	RLTI-1328	Renco	Inductor, Toroid, Ferrite, 416 uH, 0.057 ohm, TH	
L103	1	10mH	ASPI-0403S-103M-T	Abracon Corporation	Inductor, Wirewound, 10 mH, 0.02 A, 32.8 ohm, SMD	6.6X4.45mm
L104	1	1.5mH	LQH43MN152K03L	MuRata	Inductor, Wirewound, Ferrite, 1.5 mH, 0.04 A, 37 ohm, SMD	4.5x3.2mm
L300	1	2.2uH	SDR0403-2R2ML	Bourns	Inductor, Drum Core, Ferrite, 2.2 uH, 2.6 A, 0.047 ohm, SMD	4.5x3.2x4mm
LBL1	1		THT-13-457-10	Brady	Thermal Transfer Printable Labels, 1.250" W x 0.250" H - 10,000 per roll	PCB Label 1.25"H x 0.250"W
Q1, Q2	2	500V	STY105NM50N	STMicroelectronics	MOSFET, N-CH, 500 V, 110 A, TO-247	TO-247
Q100	1	60V	2N7002ET1G	ON Semiconductor	MOSFET, N-CH, 60V, 0.26A, SOT-23	SOT-23
Q300	1	800V	STD3NK80Z-1	ST Microelectronics	MOSFET, N-CH, 800V, 2.5A, IPAK	IPAK

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R100, R101, R102, R103, R104, R105, R205, R209, R211	9	348k	RT0805BRD07348KL	Yageo America	RES, 348k ohm, 0.1%, 0.125W, 0805	0805
R106	1	51.1	CRCW060351R1FKEA	Vishay-Dale	RES, 51.1 ohm, 1%, 0.1W, 0603	
R107	1	51.1	CRCW060351R1FKEA	Vishay-Dale	RES, 51.1 ohm, 1%, 0.1W, 0603	0603
R108	1	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R109, R110	2	4.99k	ERJ-6ENF4991V	Panasonic	RES, 4.99 k, 1%, 0.125 W, 0805	0805
R112	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
R113	1	12.7k	CRCW040212K7FKED	Vishay-Dale	RES, 12.7k ohm, 1%, 0.063W, 0402	0402
R114	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200 ohm, 1%, 0.1W, 0603	0603
R115	1	5.49k	CRCW04025K49FKED	Vishay-Dale	RES, 5.49k ohm, 1%, 0.063W, 0402	0402
R116	1	330k	CRCW04023K30JNED	Vishay-Dale	RES, 330k ohm, 5%, 0.063W, 0402	0402
R117, R118	2	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0k ohm, 5%, 0.063W, 0402	0402
R119, R120	2	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R121	1	2.00k	CRCW12062K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.25 W, 1206	1206
R122	1	100	CRCW1206100RFKEA	Vishay-Dale	RES, 100, 1%, 0.25 W, 1206	1206
R202	1	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
R203	1	2.0k	CRCW04022K00JNED	Vishay-Dale	RES, 2.0k ohm, 5%, 0.063W, 0402	0402
R204	1	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3k ohm, 5%, 0.063W, 0402	0402
R206	1	3.09k	ERA-2AEB3091X	Panasonic	RES, 3.09 k, 0.1%, 0.062 W, AEC-Q200 Grade 0, 0402	0402
R207	1	1.40k	CRCW04021K40FKED	Vishay-Dale	RES, 1.40k ohm, 1%, 0.063W, 0402	0402
R208, R218, R219, R220, R302	5	2.0k	CRCW06032K00JNEA	Vishay-Dale	RES, 2.0k ohm, 5%, 0.1W, 0603	0603
R212, R215	2	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10k ohm, 5%, 0.063W, 0402	0402
R213	1	5.11k	RT0805BRD075K11L	Yageo America	RES, 5.11k ohm, 0.1%, 0.125W, 0805	0805
R214	1	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00 ohm, 1%, 0.1W, 0603	0603
R216, R217	2	5.11k	RT0603BRD075K11L	Yageo America	RES, 5.11 k, 0.1%, 0.1 W, 0603	0603
R221, R223	2	100	CRCW0603100RJNEA	Vishay-Dale	RES, 100 ohm, 5%, 0.1W, 0603	0603
R222	1	221	CRCW0402221RFKED	Vishay-Dale	RES, 221, 1%, 0.063 W, 0402	0402
R224	1	10.0	ERJ-8ENF10R0V	Panasonic	RES, 10.0, 1%, 0.25 W, 1206	1206
R225	1	1.00k	RC0603FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R226	1	4.87k	ERA-2AEB4871X	Panasonic	RES, 4.87 k, 0.1%, 0.062 W, AEC-Q200 Grade 0, 0402	0402
R300	1	300k	RC1206FR-07300KL	Yageo America	RES, 300 k, 1%, 0.25 W, 1206	1206
R301	1	200	ERJ-6GEYJ201V	Panasonic	RES, 200, 5%, 0.125 W, 0805	0805
R303	1	100k	CRCW0402100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.063W, 0402	0402
R304	1	330k	RG1608P-334-B-T5	Susumu Co Ltd	RES, 330 k, 0.1%, 0.1 W, 0603	0603
R305	1	750	RT0603DRE0775ORL	Yageo America	RES, 750, 0.5%, 0.1 W, 0603	0603
R307	1	20.0	RC0603FR-0720RL	Yageo America	RES, 20.0, 1%, 0.1 W, 0603	0603
R308	1	60.4k	CRCW060360K4FKEA	Vishay-Dale	RES, 60.4k ohm, 1%, 0.1W, 0603	0603
R309	1	3.01k	CRCW08053K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.125 W, 0805	0805
R310	1	22.1k	CRCW080522K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.125 W, 0805	0805
R311, R315	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
R312	1	21.5k	CRCW060321K5FKEA	Vishay-Dale	RES, 21.5k ohm, 1%, 0.1W, 0603	0603
R313	1	2.00k	CRCW08052K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.125 W, 0805	0805
R314	1	0.91	CRM0805-FX-R910ELF	Bourns	RES, 0.91, 1%, 0.25 W, 0805	0805
R316	1	12.1k	CRCW080512K1FKEA	Vishay-Dale	RES, 12.1 k, 1%, 0.125 W, 0805	0805
R317	1	1.24k	CRCW08051K24FKEA	Vishay-Dale	RES, 1.24 k, 1%, 0.125 W, 0805	0805
R318	1	196k	ERJ-6ENF1963V	Panasonic	RES, 196 k, 1%, 0.125 W, 0805	0805
RT100	1	50 ohm	B59751B0120A070	TDK	Thermistor NTC, 50 ohm, 25%, D12.5xH16.5mm	D12.5xH16.5mm
S200	1		SKRKAEE010	Alps	Switch, Push Button, SMD	2.9x2x3.9mm SMD
T300	1		750315894	Würth Elektronik	Transformer, 13 mH, TH	14.73x14.73mm

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TP100, TP109, TP300, TP301, TP302, TP303, TP304	7	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP102, TP103, TP108, TP205, TP206, TP212, TP305	7	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP200, TP201, TP202, TP203, TP204, TP207, TP208, TP209	8	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
U100	1		ACS716KLATR-12CB-NL-T	Allegro Microsystems Inc	120 kHz Bandwidth, High-Voltage Isolation Current Sensor with Integrated Overcurrent Detection	SOIC, 16-Leads, Body 10.3x7.5mm, Pitch 1.27mm
U101	1		UCC27714D	Texas Instruments	High-Speed, 4A, 600V High-side Low-side Gate Driver Device, D0014A	D0014A
U102	1		ISO7831FDWR	Texas Instruments	High-Performance, 8000 VPK Reinforced Triple Digital Isolator, DW0016B	DW0016B
U200	1		UCD3138RHAR	Texas Instruments	Highly Integrated Digital Controller for Isolated Power, RHA0040B	RHA0040B
U201	1		SN74LVC1G3157DRYR	Texas Instruments	SINGLE-POLE DOUBLE-THROW ANALOG SWITCH, DRY0006A	DRY0006A
U202	1		OPA376AIDBVT	Texas Instruments	Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br)	DBV0005A
U300	1		LP2986AIMM-3.3	Texas Instruments	Micropower, 200 mA Ultra Low-Dropout Fixed or Adjustable Voltage Regulator, 8-pin Mini SOIC	MUA08A
U301	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A
U302	1		LTV-817S	Lite-On	Optocoupler, 5 kV, 50-600% CTR, TH-4	DIP-4
U303	1		TLV431ACDBZR	Texas Instruments	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U304	1		TPS62153RGTT	Texas Instruments	Buck Step Down Regulator with 3 to 17 V Input and 5 V Output, -40 to 85 degC, 16-Pin QFN (RGT), Green (RoHS & no Sb/Br)	RGT0016C
U305	1		TLV70133DBVT	Texas Instruments	Single Output LDO, 150 mA, Fixed 3.3 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 85 degC, Green (RoHS & no Sb/Br)	DBV0005A
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
J101	0		BNC5-J-P-GN-ST-TH2D	Samtec	50 OHM BNC ELEVATED STRAIGHT JACK, TH	50 OHM BNC ELEVATED STRAIGHT JACK, TH
J105	0		PESC-02-12-02-01-L-RA-LC	Samtec	Signal Power Combo Socket Strip, 4x3, 4 Power Group, R/A, Gold, TH	Connector, 4x3, 4 Power Group, R/A, TH
TP210	0	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint

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