

## PMP21999 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB100	1		PMP21999	Any	Printed Circuit Board	
C101, C102, C111, C112	4	150uF	400BXW150MEFC16X45	Rubycon	CAP ALUM 150UF 20% 400V RADIAL	D16XL40mm
C103, C104, C106, C107	4	150uF	500MXG150MEFCSN22X55	Rubycon	CAP ALUM 150UF 20% 500V SNAP	D22xL47mm
C114, C115, C122, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139	17	8200pF	CGA5L4NP02J822J160AA	TDK	CAP CER 8200PF 630V NP0 1206	1206_190
C120	1	0.1uF	1812Y1K00104KXT	Knowles Syfer	CAP, CERM, 0.1 uF, 1000 V,+/- 10%, X7R, 1812	1812
C121	1	0.1uF	1812Y1K00104KXT	Knowles Syfer	CAP CER 0.1UF 1KV X7R 1812	1812
C123, C124	2	1uF	B58031I5105M062	TDK	CAP, CERM, 1 uF, 500 V, +/- 20%, B58031, AEC-Q200 Grade 0, 6.84x7.85mm	6.84x7.85mm
C147	1	2200pF	DE1E3KX222MA4BL01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Cap, 7x12x9 mm	Cap, 7x12x9 mm
C200, C211	2	10pF	C0402C100C8GACTU	Kemet	CAP, CERM, 10 pF, 10 V,+/- 2.5%, C0G/NP0, 0402	0402
C201, C205, C206, C209, C216, C218, C219, C224, C237	9	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
C202	1	2.2uF	GRM188C80J225KE19D	MuRata	CAP, CERM, 2.2 uF, 6.3 V,+/- 10%, X6S, 0603	0603
C203	1	2200pF	C0402C222K9RAC7867	KEMET	CAP CER 2200PF 6.3V X7R 0402	0402
C204	1	220pF	AC0402KRX7R9BB221	Yageo	CAP, CERM, 220 pF, 50 V,+/- 5%, C0G/NP0, 0402	0402
C207, C225, C238	3	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 uF, 25 V,+/- 20%, X7R, 0402	0402
C208	1	10pF	C0603C100J5GACTU	Kemet	CAP, CERM, 10 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C214, C222, C235	3	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
C215, C217	2	0.1uF	CC0402KRX7R5BB104	Yageo	CAP, CERM, 0.1uF, 6.3V, +/-10%, X7R, 0402	0402
C223, C236	2	4.7uF	CGB3B1X5R1A475K055AC	TDK	CAP, CERM, 4.7 uF, 10 V,+/- 10%, X5R, 0603	0603
C226, C231, C239, C245	4	0.1uF	0402YC104KAT2A	AVX	CAP, CERM, 0.1 uF, 16 V,+/- 10%, X7R, 0402	0402
C227, C240	2	2200pF	CGA2B2X7R1H222K050BA	TDK	CAP, CERM, 2200 pF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C234	1	0.1uF	08053C104JAT2A	AVX	CAP, CERM, 0.1 uF, 25 V,+/- 5%, X7R, 0805	0805
C241	1	470pF	CGA2B2X7R1H471K050BA	TDK	CAP, CERM, 470 pF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
D200	1	30V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
F100, F101	2		SC-40	Eaton	Fuse, 40 A, 480 VAC, 300 VDC, Holder	
H200, H202, H204, H206	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
H201, H203, H205, H207	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
J100, J103	2		ED700/2	On Shore Technology Inc.	Thermal Block, 5 mm, 2-pole, Tin, TH	TH, 2-Leads, Body 10x10mm, Pitch 5mm

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J101, J102	2		ED700/3	On Shore Technology Inc.	Receptacle, 3x1, 5mm, R/A, TH	Receptacle, 3x1, 5mm, R/A, TH
J104, J106	2		MTMM-102-09-G-D-315	Samtec	Conn Unshrouded Header HDR 4 POS 2mm Solder ST Thru-Hole	HDR4
J105, J107, J108, J109	4		MTMM-104-09-G-D-320	Samtec	Conn Unshrouded Header HDR 8 POS 2mm Solder ST Thru-Hole	HDR8
J110, J111	2		MTMM-102-04-G-D-148	Samtec	Conn Unshrouded Header HDR 4 POS 2mm Solder ST Thru-Hole	HDR4
J200	1		HSEC8-160-01-L-DV-A-BL	Samtec	C2000 controlCARD-120HSEC connector, SMT	C2000 pin numbering
J201	1		61300511021	Wurth Elektronik	Header, 2.54 mm, 5x1, Gold, R/A, TH	Header, 2.54 mm, 5x1, R/A, TH
J202	1		HSEC8-130-01-L-DV-A	Samtec	C2000 controlCARD-180HSEC (60-pin addon) connector, SMT	C2000 pin numbering
L100, L101	2	7uH	RLTI-1310	Renco Electronics	Inductor, Toroid, 7 uH, 1.155 ohm, TH	Dia 735mil
QPL1H_D, QPL1H_S, QPL1L_D, QPL1L_S, QPL2H_D, QPL2H_S, QPL2L_D, QPL2L_S, QSL1H_D, QSL1H_S, QSL1L_D, QSL1L_S, QSL2H_D, QSL2H_S, QSL2L_D, QSL2L_S	16		0312-0-15-15-34-27-10-0	Mill-Max	Pin Receptacle, .032-.046" .075" Dia, Gold, TH	Pin Receptacle
R100, R101, R105, R106, R110, R111, R114, R115	8	1.00Meg	CRCW12061M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.25 W, 1206	1206
R102, R104, R108, R112, R116	5	0.006	PMR18EZPFU6L00	Rohm Semiconductor	RES 0.006 OHM 1% 1W 1206	1206
R103, R107, R109, R113, R117, R118, R119, R120, R121, R122	10	0.01	WSLP1206R0100FEA	Vishay-Dale	RES, 0.01, 1%, 1 W, 1206	1206
R200, R202, R209, R215, R217, R254	6	56.2	RC0402FR-0756R2L	Yageo	RES SMD 56.2 OHM 1% 1/16W 0402	0402
R201, R210	2	150k	CRCW0402150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.063 W, 0402	0402
R204	1	28.7k	CRCW080528K7FKEA	Vishay-Dale	RES, 28.7 k, 1%, 0.125 W, 0805	0805
R205, R212, R229, R239, R247, R261	6	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R206	1	14.3k	CRCW060314K3FKEA	Vishay-Dale	RES, 14.3 k, 1%, 0.1 W, 0603	0603
R207, R218	2	25.5	CRCW060325R5FKEA	Vishay-Dale	RES, 25.5, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R208	1	25.5	CRCW060325R5FKEA	Vishay-Dale	RES, 25.5, 1%, 0.1 W, 0603	0603
R211	1	1.24k	CRCW04021K24FKED	Vishay-Dale	RES, 1.24 k, 1%, 0.063 W, 0402	0402
R214	1	56.2	CRCW060356R2FKEA	Vishay-Dale	RES, 56.2, 1%, 0.1 W, 0603	0603
R216	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603

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R219, R220, R221, R224, R251, R259	6	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R227	1	7.15k	CRCW06037K15FKEA	Vishay-Dale	RES, 7.15 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R228, R244	2	3.65k	CRCW04023K65FKED	Vishay-Dale	RES, 3.65 k, 1%, 0.063 W, 0402	0402
R230, R231, R248, R249	4	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
R232, R237	2	39.2	CRCW060339R2FKEA	Vishay-Dale	RES, 39.2, 1%, 0.1 W, 0603	0603
R233, R234, R235, R236	4	4.70k	RC0402FR-074K7L	Yageo America	RES, 4.70 k, 1%, 0.0625 W, 0402	0402
R238	1	7.15k	CRCW04027K15FKED	Vishay-Dale	RES, 7.15 k, 1%, 0.063 W, 0402	0402
R240, R243, R246	3	365k	CRCW1206365KFKEA	Vishay-Dale	RES, 365 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R241, R245, R250	3	2.00Meg	RC1206FR-072ML	Yageo America	RES, 2.00 M, 1%, 0.25 W, 1206	1206
R242, R260	2	8.25k	CRCW06038K25FKEA	Vishay-Dale	RES, 8.25 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R252, R253, R256, R257	4	2.55k	CRCW06032K55FKEA	Vishay-Dale	RES, 2.55 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R255	1	5.49k	CRCW06035K49FKEA	Vishay-Dale	RES, 5.49 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R258	1	25.5k	CRCW060325K5FKEA	Vishay-Dale	RES, 25.5 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
SIL100, SIL101, SIL102, SIL103, SIL104, SIL105, SIL106, SIL107	8		SP900S-0.009-00-114	Bergquist Company	Silcon Thermal Pad	24x21 mm
T100	1		VA-18191B	Cyntec	LLC Transformer	XFMR_PTH_8
TP100, TP101, TP200, TP201	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP102, TP103, TP104, TP105, TP106	5		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U200, U204, U208	3		LMV116MF/NOPB	Texas Instruments	IC OPAMP VFB 45MHZ RRO SOT23-5	DBV0006A
U201	1		TLV71333PQDBVRQ1	Texas Instruments	Capacitor-Free, 150-mA, Low-Dropout Regulator with Foldback Current Limit for Portable Devices, DBV0005A	DBV0005A
U202	1		REF2033AIDDCR	Texas Instruments	Low-Drift, Low-Power, Dual-Output VREF and VREF/2 Voltage Reference, DDC0005A (SOT-23-T-5)	DDC0005A
U203, U206, U207	3		OPA320AIDBVR	Texas Instruments	Precision, 20 MHz, 0.9 pA Ib, RRIO, CMOS Operational Amplifier, 1.8 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV5), Green (RoHS & no Sb/Br)	DBV0005A
U205	1		AMC1302QDWVRQ1	Texas Instruments	Precision Reinforced Isolated Amplifier for Current Sensing, DWV0008A (SOIC-8)	DWV0008A
U209	1		AMC1311BDWVR	Texas Instruments	Precision, 2-V Input, Reinforced Isolated Amplifier, DWV0008A (SOIC-8)	DWV0008A
XF100, XF101, XF102, XF103	4		BK/1A3400-10	Eaton	FUSE CLIP CARTRIDGE 30A PCB	11.1x11.94mm
C100, C105, C108, C109, C110, C113, C141, C143, C145	0	8200pF	CGA5L4NP02J822J160AA	TDK	CAP CER 8200PF 630V NP0 1206	1206_190
C210, C246	0	10pF	C0402C100C8GACTU	Kemet	CAP, CERM, 10 pF, 10 V,+/- 2.5%, C0G/NP0, 0402	0402
C220, C229, C230, C232, C243, C244	0	0.01uF	GRM155R61A103KA01D	MuRata	CAP, CERM, 0.01 µF, 10 V,+/- 10%, X5R, 0402	0402
C221, C233	0	2.2pF	GRM1555C1H2R2BA01D	MuRata	CAP, CERM, 2.2 pF, 50 V,+/- 5%, C0G/NP0, 0402	0402

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C228, C242	0	0.01uF	06031C103KAT2A	AVX	CAP, CERM, 0.01 $\mu$ F, 100 V, +/- 10%, X7R, 0603	0603
J203	0		SSW-104-24-G-D	Samtec	Receptacle, 2.54mm, 4x2, Gold, TH	Receptacle, 2.54mm, 4x2, TH
J204	0		215307-3	TE Connectivity	Receptacle, 2.54mm, 3x2, Tin, TH	Receptacle, 2.54mm, 3x2, TH
R203, R213	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402