

PMP11237 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB1	1		PMP11237	Any	Printed Circuit Board	
C1, C8	2	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C2, C3	2	10uF	GMK316AB7106KL	Taiyo Yuden	CAP, CERM, 10uF, 35V, +/-10%, X7R, 1206	1206
C4, C15	2	100uF	EEU-EB1E101S	Panasonic	CAP, AL, 100 µF, 25 V, +/- 20%, TH	6.3x11.2mm
C5, C6, C7	3	470pF	C0603C471K5RACTU	Kemet	CAP, CERM, 470pF, 50V, +/-10%, X7R, 0603	0603
C9	1	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
C10	1	1000pF	C0603C102K5RACTU	Kemet	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0603	0603
C11, C12	2	0.47uF	ECQ-U2A474ML	Panasonic	CAP, Film, 0.47uF, 275V, +/-20%, TH	Radial 25x8.5x18.5
C13	1	0.33uF	ECQ-U2A334ML	Panasonic	CAP, Film, 0.33uF, 275V, +/-20%, TH	RCAP, 17.5x17.5x9.5mm
C14	1	270uF	380LQ271M450K022	Cornell Dubilier Electronics	CAP, AL, 270 µF, 450 V, +/- 20%, 0.737 ohm, TH	D30xL30mm
C17	1	47uF	GRM32ER70J476KE20L	MuRata	CAP, CERM, 47uF, 6.3V, +/-10%, X7R, 1210	1210
C18, C40, C42	3	0.1uF	08055C104JAT2A	AVX	CAP, CERM, 0.1uF, 50V, +/-5%, X7R, 0805	0805
C19, C34	2	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	0805
C20	1	1000pF	DE1E3KX102MA5BA01	MuRata	CAP, CERM, 1000pF, 250V, +/-20%, E, Disc, 8x12mm	Disc, 8x12mm
C21, C27	2	0.016µF	ECW-F6163JL	Panasonic Electronic Compon	CAP FILM 0.016UF 630VDC RADIAL	Radial
C22	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0603	0603
C23	1	0.012uF	ECW-H8123HA	Panasonic	CAP, Film, 0.012uF, 800V, +/-3%, TH	Cap, 15.4x11.7x5.8mm
C26	1	0.1uF	C3216C0G1E104J	TDK	CAP, CERM, 0.1 µF, 25 V, +/- 5%, C0G/NP0, 1206	1206
C28, C33	2	330uF	APS-160ELL331MJC5S	Nippon Chemi-Con	CAP, AL, 330uF, 16V, +/-20%, 0.014 ohm, TH	Cap, 10x12.5mm
C29, C30, C31, C32	4	1000uF	EEU-FR1C102L	Panasonic	CAP, AL, 1000uF, 16V, +/-20%, 0.03 ohm, TH	CAP, 8x20mm
C35	1	1uF	12063C105KAT2A	AVX	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 1206	1206
C36, C37	2	100pF	06035A101FAT2A	AVX	CAP, CERM, 100pF, 50V, +/-1%, C0G/NP0, 0603	0603
C38	1	0.01uF	C0603C103K5RACTU	Kemet	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0603	0603
C43, C45	2	10uF	CGA5L3X5R1H106K160AB	TDK	CAP, CERM, 10 µF, 50 V, +/- 10%, X5R, 1206_190	1206_190
C46	1	0.022uF	885012206091	Wurth Elektronik	CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603	0603
C101	1	1uF	CC1206KKX7R7BB105	Yageo America	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 1206	1206
D1, D2	2	800V	DA2JF8100L	Panasonic	Diode, Fast Rectifier, 800V, 0.2A, TVS, 1.7x.7x1.25mm	TVS, 1.7x.7x1.25mm
D4, D5, D9, D13	4	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
D6	1	600V	1N5406	Vishay-Semiconductor	Diode, Switching-Bridge, 600V, 3A, TH	DO-201AD
D7	1	600V	C3D04060A	Cree	Diode, Schottky, 600V, 4A, TH	TO-220-F2
D8	1	420V	GBU8J-BP	Micro Commercial Component	Diode, Switching-Bridge, 420V, 8A, TH	GBU
D10	1	600V	MUR160-TP	Micro Commercial Co	DIODE GEN PURP 600V 1A DO41	DO-41
D11, D12	2	45V	STPS40L45CT	ST Microelectronics	Diode, Schottky, 45V, 20A, TH	TO-220AB
D18	1	18V	MMSZ5248B-7-F	Diodes Inc.	Diode, Zener, 18V, 500mW, SOD-123	SOD-123
D19, D20	2	100V	BAV99,215	NXP Semiconductor	Diode, Switching, 100V, 0.215A, SOT-23	SOT-23
F1	1		0216008.MXESPP	Littelfuse	Fuse, 8A, 250V, TH	Fuse, 20x5.2mm
H1, H2, H7, H8, H13, H14, H19, H20, H25	9		29311	Keystone	Screw Pan Head M3	Screw M3
H3, H4, H9, H10, H16, H21, H22	7		4824	Keystone	HEX STANDOFF 6-32 NYLON 1-1/2"	HEX STANDOFF 6-32 NYLON 1-1/2"

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H5, H6, H11, H12, H17, H18, H24	7		1903C	Keystone	Standoff, Hex, 0.5"L #6-32 Nylon	6-32 HEX Nylon standoff 0.500 mil
H26, H27, H28, H29, H30, H31, H32	7		MAX01NG	Aavid Thermalloy	MAX Clip	Clip
H33	1		Q2-F-3/64-01-MS100FT	Qualtek	Heatsrink tubing, Digikey pn Q2F364B-100-ND. This is a 100foot reel. we need a qty of about 0.001 per board (aka 50mm) – this will go on the leads of the new diode.	
HS1, HS2, HS3	3		782653B04250G	Aavid	HEATSINK VERT MAX CLIP, BLACK, 4.25 INCHES	4.25 INCH EXTRUDED HEAT SINK
J1, J3, J6, J7, J8, J12, J13, J19, J21, J27	10		923345-07-C	3M	Jumper Wire, 700mil spacing, Violet, pkg of 150, TH	700 mil Jumper Wire
J2	1		1-1318301-3	TE Connectivity	Header, 312mil, 3x1, Tin, TH	19.7x10.7 x8.5 mm
J4	1		ED120/4DS	On-Shore Technology	Terminal Block, 4x1, 5.08mm, TH	TERM_BLK, 4pos, 5.08mm
J5, J16, J20, J22	4		923345-04-C	3M	Jumper Wire, 400 mil Spacing, Yellow, Pkg of 200	Jumper Wire, 400 mil Spacing, Yellow, Pkg of 200
J9, J10, J15, J17, J24	5		923345-03-C	3M	Jumper Wire, 300mil spacing, Orange, pkg of 200	300 mil Jumper Wire
J11, J14, J23, J25, J26	5		923345-05-C	3M	Jumper Wire, 500mil spacing, Green, pkg of 200	500 mil Jumper Wire
J18	1		923345-06-C	3M	Jumper Wire, 600mil spacing, Blue, pkg of 150, TH	600 mil Jumper Wire
L1	1		RLTI-1108	Renco Electronics	Inductor, ?, , A, TH	1800x1740x1750mil
L2	1	2.2mH	7448258022	Wurth Elektronik eiSos	Coupled inductor, 2.2mH, 8A, 0.014 ohm, +/-30%, TH	30x35x21mm
L3	1	55uH	75PR8106	Vitec Corporation	Inductor, Shielded, ?, 55uH, A, 0.065 ohm, TH	Ind. 24.13x19.05x24.15m m
Q1	1	600V	BSS126 H6906	Infineon Technologies	MOSFET, N-CH, 600V, 0.021A, SOT-23	SOT-23
Q2, Q3, Q4	3	650V	IPP50R199CP	Infineon	MOSFET N-CH 550V 17A TO-220	TO-262
R1, R2, R3	3	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.25W, 1206	1206
R4, R5, R9, R16	4	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
R6, R19	2	3.09Meg	CMF503M0900FLEK	Vishay-Dale	RES 3.09M OHM 1/4W 1% AXIAL	1/4W Resistor
R7, R8, R17, R18	4	3.09Meg	CRCW12063M09FKEA	Vishay-Dale	RES, 3.09Meg ohm, 1%, 0.25W, 1206	1206
R10, R11, R12	3	10.0Meg	CRCW120610M0FKEA	Vishay-Dale	RES, 10.0Meg ohm, 1%, 0.25W, 1206	1206
R13	1	75.0k	CRCW060375K0FKEA	Vishay-Dale	RES, 75.0k ohm, 1%, 0.1W, 0603	0603
R14	1	3.3Meg	CRCW06033M30JNEA	Vishay-Dale	RES, 3.3Meg ohm, 5%, 0.1W, 0603	0603
R15, R23, R54	3	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R20, R21	2	470	RC0603FR-07470RL	Yageo America	RES, 470 ohm, 1%, 0.1W, 0603	0603
R22	1	2.21k	CMF502K2100FHEB	Vishay-Dale	RES, 2.21 k, 1%, 0.25 W, TH	1/4W Resistor
R24	1	3.32k	CRCW06033K32FKEA	Vishay-Dale	RES, 3.32k ohm, 1%, 0.1W, 0603	0603
R25	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, 0603	0603
R26	1	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.1 W, 0603	0603
R27	1	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603
R28, R37, R43, R49	4	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R29, R33, R34	3	1.20	ERJ-1TRQF1R2U	Panasonic	RES, 1.20, 1%, 1 W, 2512	2512
R30, R31, R32	3	0.1	CSRN2512FTR100	Stackpole Electronics Inc	RES, 0.1, 1%, 2 W, 2512	2512
R35, R42	2	3.30	ERJ-8RQF3R3V	Panasonic	RES, 3.30 ohm, 1%, 0.25W, 1206	1206

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R36	1	2.2	CRCW08052R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.125 W, 0805	0805
R38	1	1.00	ERJ-6RQF1R0V	Panasonic	RES, 1.00 ohm, 1%, 0.125W, 0805	0805
R39, R41	2	51.1	CRCW060351R1FKEA	Vishay-Dale	RES, 51.1, 1%, 0.1 W, 0603	0603
R44	1	1.20k	RC1206FR-071K2L	Yageo America	RES, 1.20 k, 1%, 0.25 W, 1206	1206
R46	1	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
R47	1	49.9	ERJ-8ENF49R9V	Panasonic	RES, 49.9 ohm, 1%, 0.25W, 1206	1206
R48	1	10.0Meg	RC0603FR-0710ML	Yageo America	RES, 10.0 M, 1%, 0.1 W, 0603	0603
R50	1	18.0k	RC0603FR-0718KL	Yageo America	RES, 18.0k ohm, 1%, 0.1W, 0603	0603
R55	1	1.10Meg	CRCW06031M10FKEA	Vishay-Dale	RES, 1.10 M, 1%, 0.1 W, 0603	0603
R56	1	4.99k	CPF0603B4K99E	TE Connectivity	RES, 4.99 k, 0.1%, 0.063 W, 0603	0603
R58	1	4.75k	CRCW06034K75FKEA	Vishay-Dale	RES, 4.75 k, 1%, 0.1 W, 0603	0603
RT1, RT2	2	10 ohm	CL-60	GE Sensing	Thermistor NTC, 10 ohm, 25%, Disc, 220x770 mil	Disc, 220x770 mil
S1, S2	2		200USP9T1A1M2RE	E-Switch	Switch, Toggle, SPST, 1Pos, TH	Switch, 7.0x9.6x4.5mm
SIL1, SIL2, SIL3, SIL4, SIL5, SIL6, SIL7, SIL8	8		SP900S-0.009-00-114	Bergquist Company	Silcon Thermal Pad	24 x 21 mm
T1	1	280uH	RLTI-1115	Renco Electronics	LLC Transformer, 280uH, TH	1570x1550x1500mils
TP10, TP15	2	Yellow	5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
TP23	1	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP26	1	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP27, TP28	2	White	5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
U1	1		UCC29950DR	Texas Instruments	CCM PFC and LLC Combo Controller, D0016A	D0016A
U2	1		UCC27511DBVR	Texas Instruments	Single-Channel High-Speed Low-Side Gate Driver (with 4-A Peak Source and 8-A Peak Sink), DBV0006A	DBV0006A
U3	1		UCC27714D	Texas Instruments	High-Speed, 4A, 600V High-side Low-side Gate Driver Device, D0014A	D0014A
U4	1		TPS7A1601DGNT	Texas Instruments	Single Output LDO, 100 mA, Adjustable 1.2 to 18.5 V Output, 3 to 60 V Input, with Enable and Power Good, 8-pin MSOP (DGN), -40 to 125 degC, Green (RoHS & no Sb/Br)	DGN0008C
U5	1		PC817X4NSZ0F		Opto-Isolator, 1 Channel, TH	DIP-4
U7	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
V1	1	300V	B72207S2301K101	EPCOS Inc	Varistor, 300V, 1.75kA, 7MM Radial, TH	Varistor, TH, 7MM
C39	0	1000pF	GRM1885C1E102JA01D	MuRata	CAP, CERM, 1000pF, 25V, +/-5%, C0G/NP0, 0603	0603
C41	0	0.047uF	08055C473KAT2A	AVX	CAP, CERM, 0.047uF, 50V, +/-10%, X7R, 0805	0805
C47	0	0.1uF	C0603C104K4RACTU	Kemet	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	0603
D17	0	12V	BZX384-C12,115	NXP Semiconductor	Diode, Zener, 12V, 300mW, SOD-323	SOD-323
R40	0	1.00k	CRCW12061K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.25W, 1206	1206
R45	0	100	CRCW1206100RFKEA	Vishay-Dale	RES, 100, 1%, 0.25 W, 1206	1206
R51	0	39.2k	CRCW060339K2FKEA	Vishay-Dale	RES, 39.2k ohm, 1%, 0.1W, 0603	0603
R52	0	1.20k	RC0603FR-071K2L	Yageo America	RES, 1.20k ohm, 1%, 0.1W, 0603	0603
R57	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R59	0	1.00k	CRCW12061K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.25 W, 1206	1206
U6	0		PC817X4NSZ0F		Opto-Isolator, 1 Channel, TH	DIP-4

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