

## PMP11282 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C100	1	2700pF	06031C272JAT2A	AVX	CAP, CERM, 2700 pF, 100 V, +/- 5%, X7R, 0603	0603
C500	1	1500pF	DE2E3KY152MN3AM02	MuRata	CAP, CERM, 1500 pF, 250 V, +/- 20%, E, TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm	TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm
C501, C502	2	47pF	GRM1555C1E470JA01D	MuRata	CAP, CERM, 47pF, 25V, +/-5%, C0G/NP0, 0402	0402
C503, C903	2	0.047uF	GRM32DR72J473KW01L	MuRata	CAP, CERM, 0.047 µF, 630 V, +/- 10%, X7R, 1210	1210
C504, C525	2	DNP	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output
C505	1	0.22uF	12065C224KAT2A	AVX	CAP, CERM, 0.22 µF, 50 V, +/- 10%, X7R, 1206	1206
C506, C507, C905	3	1uF	C0603C105K8PACTU	Kemet	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0603	0603
C508, C509	2	1uF	0805YD105KAT2A	AVX	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0805	0805
C510, C511, C513, C516, C517, C518	6	680uF	35ZLH680MEFC10X23	Rubycon	CAP ALUM 680UF 20% 35V RADIAL	10x25
C512, C523	2	0.1uF	08055C104KAT2A	AVX	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0805	0805
C514, C515	2	220pF	06031C221KAT2A	AVX	CAP, CERM, 220 pF, 100 V, +/- 10%, X7R, 0603	0603
C519	1	0.047uF	121MPE473J	Rubycon	CAP, Film, 0.047 µF, 1250 V, +/- 5%, TH	18x9.5x18mm
C526	1	100pF	GRM31A7U3A101JW31D	MuRata	CAP, CERM, 100pF, 1000V, +/-5%, U2J, 1206	1206
C527	1	0.47uF	C0603C474K4RACTU	Kemet	CAP, CERM, 0.47uF, 16V, +/-10%, X7R, 0603	0603
C528	1	0.01uF	C0603C103K5RACTU	Kemet	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603
C529	1	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C530	1	0.47uF	C0603C474K4RACTU	Kemet	CAP, CERM, 0.47 µF, 16 V, +/- 10%, X7R, 0603	0603
C532	1	0.22uF	08053C224JAT2A	AVX	CAP, CERM, 0.22uF, 25V, +/-5%, X7R, 0805	0805
C533, C907, C908	3	1uF	C0603C105K4PACTU	Kemet	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	0603
C536	1	1uF	C3216X7R1H105K	TDK	CAP, CERM, 1uF, 50V, +/-10%, X7R, 1206	1206
C800, C806	2	100pF	DE6B3KJ101KN3A	MuRata	CAP CER 100PF 300VAC 10% RADIAL	TH, 2- Leads, Body 8x7mm, Pin Spacing 7.5mm
C801, C807	2	220pF	DE6B3KJ221KN3A	MuRata	CAP, CERM, 220 pF, 300 V, +/- 10%, B, TH, 2- Leads, Body 8x7mm, Pin Spacing 7.5mm	TH, 2- Leads, Body 8x7mm, Pin Spacing 7.5mm
C802	1	1uF	450MPK105J	Rubycon	CAP, Film, 1 µF, 450 V, +/- 5%, TH	18x9.5mm
C803	1	0.47uF	450MPK474J	Rubycon	CAP, Film, 0.47 µF, 450 V, +/- 5%, TH	18x6.5mm
C804	1	0.22uF	ECQ-U2A224ML	Panasonic	CAP, Film, 0.22uF, 275V, +/-20%, TH	17.5x8x17.5mm
C805	1	0.47uF	ECQ-U2A474ML	Panasonic	CAP, Film, 0.47uF, 275V, +/-20%, TH	Radial 25x8.5x18.5
C808	1	270uF	450VXH270MEFCSN30X30	Rubycon	CAP ALUM 270UF 450V 20% SNAP	D30xL30mm
C810	1	1uF	GRM319R61E105KC36D	MuRata	CAP, CERM, 1uF, 25V, +/-10%, X5R, 1206	1206
C811, C818	2	2.2uF	0805YD225KAT2A	AVX	CAP, CERM, 2.2 µF, 16 V, +/- 10%, X5R, 0805	0805
C812, C813	2	22pF	C0603C220J5GACTU	Kemet	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C814, C816	2	1000pF	C1608X7R1H102K	TDK	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C815	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
C817	1	820pF	06035A821JAT2A	AVX	CAP, CERM, 820 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C819	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0603	0603
C820	1	0.1uF	EMK107B7104KA-T	Taiyo Yuden	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603
C821	1	1000pF	06031C102MAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 20%, X7R, 0603	0603
C822	1	680pF	GRM188R71H681KA01D	MuRata	CAP, CERM, 680 pF, 50 V, +/- 10%, X7R, 0603	0603
C900, C904	2	100uF	EEU-FR1C101	Panasonic	CAP ALUM 100UF 16V 20% RADIAL	6.3x11.2mm
C901	1	1uF	12063C105KAT2A	AVX	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 1206	1206

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C902, C906, C913, C914	4	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603
C909	1	680pF	VY2681M29Y5US63V7	Vishay	CAP CER 680PF 440VAC 20% RADIAL	10.0x8.0x14.0mm
C910	1	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01 µF, 100 V, +/- 5%, X7R, 0603	0603
C911	1	220uF	EEU-FR1C221	Panasonic	CAP ALUM 220UF 16V 20% RADIAL	6.3x11.2mm
C912	1	1uF	GRM31MR71H105KA88L	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 1206	1206
C915	1	4.7pF	06035A4R7CAT2A	AVX	CAP, CERM, 4.7 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C916	1	10uF	GRM31CR61E106KA12L	MuRata	CAP, CERM, 10uF, 25V, +/-10%, X5R, 1206	1206
D500, D501	2	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
D502	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, SMA	SMA
D503, D504, D801, D805	4	0.35V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D505, D506	2	0.63V	BAV99WT1G	Fairchild Semiconductor	Diode, P-N, 70V, 0.2A, SOT-323	SOT-323
D507	1	27V	MMSZ5254B-7-F	Diodes Inc.	Diode, Zener, 27 V, 500 mW, SOD-123	SOD-123
D800, D804	2	0.98V	MUR860G	ON Semiconductor	Diode, Ultrafast, 600V, 8A, TH	TO-220AC
D802	1	GBU8J	GBU8J	Vishay	DIODE GPP 8A 600V GPP INLINE GBU	GBU
D803	1	20V	MMSZ5250B-7-F	Diodes Inc.	Diode, Zener, 20V, 500mW, SOD-123	SOD-123
D900, D903, D904	3	100V	SS110-TP	Micro Commercial Component	Diode, Schottky, 100 V, 1 A, SMA	SMA
D901	1	140V	SMCJ140A	AVX	TVS DIODE 140VWV 227VC SMC	SMC
D902	1	1.7V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000V, 1A, SMA	SMA
D905	1		BAS20HT1G		DIODE SWITCH 200V 200MA SOD323	SOD-323
D906	1	100V	MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
F800	1		37216300001	Littelfuse	Fuse, 6.3 A, 250 V, TH	TR5 fuse 8.5mm DIA
H500, HS800	2		782653B04250G	Aavid	HEATSINK VERT MAX CLIP, BLACK, 4.25 INCHES	4.25 INCH EXTRUDED HEAT SINK
H501, H800, H802	3		513101B02500G	Aavid	BOARD LEVEL HEAT SINK	12.70x50.80x34.92 mm
H900, H901, H902, H903, H908	5		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H904, H905, H906, H907, H909	5		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J500	1		350430-1	TE Connectivity	Header(Shrouded), 6.35mm, 4x1, Tin, TH	Header(Shrouded), 6.35mm, 4x1, TH
J800	1		350429-1	TE Connectivity	Header(Shrouded), 6.35mm, 3x1, Tin, TH	Header(Shrouded), 6.35mm, 3x1, TH
L500	1	40uH	RLTI-1154	Renco Electronics	Inductor, 40 µH, 0.02 ohm, TH	925x915mil
L800, L804	2	150 µH	PFC4124QM-151XXX	TDK	Transformer, 160 uH, TH	43x38mm
L801	1	150uH	7447076	Würth Elektronik	Inductor, Toroid, Powdered Iron, 150 µH, 5A, TH	
L802	1	1mH	744824101	Würth Elektronik eiSos	CHOKE TOROID 1.0MH 10A VERT	18.5x33x27.5 mm
L803	1	10mH	744825510	Würth Elektronik	Coupled inductor, 10 mH, 5 A, 0.055 ohm, TH	30x35x21mm
Q500, Q501	2	100V	BSS123	Fairchild Semiconductor	MOSFET, N-CH, 100 V, 0.17 A, SOT-23	SOT-23
Q502, Q505	2	60V	CSD18532KCS	Texas Instruments	MOSFET, N-CH, 60 V, 100 A,	
Q503, Q504, Q800, Q803	4	500V	IPW50R190CE	Infineon Technologies	MOSFET N-CH 500V 18.5A TO247	TO-247
Q506, Q902	2	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
Q802	1	650V	STB45N65M5	ST Microelectronics	MOSFET N CH 650V 35A D2PAK	DDPAK
Q900, Q901	2	40 V	MMBT4403	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.6 A, SOT-23	SOT-23
R500, R501, R502, R503	4	10.0	RC0603FR-0710RL	Yageo America	RES, 10.0, 1%, 0.1 W, 0603	0603
R504, R522	2	DNP	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output
R505, R506	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603	0603

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R507	1	3.3	CRCW12063R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.25 W, 1206	1206
R508, R509	2	221k	CRCW0603221KFKEA	Vishay-Dale	RES, 221k ohm, 1%, 0.1W, 0603	0603
R510, R518, R800, R809	4	3.0	CRCW06033R00JNEA	Vishay-Dale	RES, 3.0 ohm, 5%, 0.1W, 0603	0603
R511, R521	2	20.0k	CRCW080520K0FKEA	Vishay-Dale	RES, 20.0k ohm, 1%, 0.125W, 0805	0805
R512, R516, R540, R822	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R513, R514, R517, R520	4	0	MCR50JZHJ000	Rohm Semiconductor	RES SMD 0.0 OHM JUMPER 1/2W 2010	2010
R515, R915	2	21.5k	CRCW060321K5FKEA	Vishay-Dale	RES, 21.5 k, 1%, 0.1 W, 0603	0603
R523	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R524, R527	2	51	CRCW060351R0JNEA	Vishay-Dale	RES, 51, 5%, 0.1 W, 0603	0603
R525	1	1.0Meg	CRCW06031M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.1 W, 0603	0603
R526	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R528, R534	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R530	1	15	CRCW060315R0JNEA	Vishay-Dale	RES, 15 ohm, 5%, 0.1W, 0603	0603
R531	1	511	CRCW0603511RFKEA	Vishay-Dale	RES, 511, 1%, 0.1 W, 0603	0603
R539	1	100k	CRCW0402100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.063W, 0402	0402
R541	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, 0603	0603
R542	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R543	1	3.40k	CRCW06033K40FKEA	Vishay-Dale	RES, 3.40 k, 1%, 0.1 W, 0603	0603
R545	1	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49k ohm, 1%, 0.1W, 0603	0603
R546, R547	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R801, R810	2	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
R802, R803	2	511k	CRCW1206511KFKEA	Vishay-Dale	RES, 511k ohm, 1%, 0.25W, 1206	1206
R804, R805, R806	3	0.033	ERJ-8BWFR033V	Stackpole Electronics Inc	RES SMD 0.033 OHM 1% 1W 1206	1206
R807	1	49.9k	CRCW120649K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.25W, 1206	1206
R811	1	3.01Meg	CRCW08053M01FKEA	Vishay-Dale	RES, 3.01 M, 1%, 0.125 W, 0805	0805
R812, R813, R819	3	2.87Meg	CRCW08052M87FKEA	Vishay-Dale	RES, 2.87 M, 1%, 0.125 W, 0805	0805
R814, R815	2	16.5k	CRCW060316K5FKEA	Vishay-Dale	RES, 16.5 k, 1%, 0.1 W, 0603	0603
R817, R820, R825, R826, R827	5	2.74Meg	CRCW08052M74FKEA	Vishay-Dale	RES, 2.74 M, 1%, 0.125 W, 0805	0805
R818	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R821, R828	2	133k	CRCW0603133KFKEA	Vishay-Dale	RES, 133 k, 1%, 0.1 W, 0603	0603
R823	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R824	1	7.50k	CRCW06037K50FKEA	Vishay-Dale	RES, 7.50 k, 1%, 0.1 W, 0603	0603
R829	1	66.5k	CRCW060366K5FKEA	Vishay-Dale	RES, 66.5 k, 1%, 0.1 W, 0603	0603
R830	1	82.5k	CRCW060382K5FKEA	Vishay-Dale	RES, 82.5 k, 1%, 0.1 W, 0603	0603
R900, R901	2	2.0k	CRCW08052K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.125 W, 0805	0805
R902	1	100	CRCW1206100RJNEA	Vishay-Dale	RES, 100, 5%, 0.25 W, 1206	1206
R903	1	15.0	CRCW060315R0FKEA	Vishay-Dale	RES, 15.0 ohm, 1%, 0.1W, 0603	0603
R904	1	2.0k	CRCW06032K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.1 W, 0603	0603
R905	1	54.9k	CRCW060354K9FKEA	Vishay-Dale	RES, 54.9 k, 1%, 0.1 W, 0603	0603
R906, R909	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R907	1	4.99k	CR0603-FX-4991ELF	Bourns	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R908, R910	2	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
R911	1	330	CRCW1206330RJNEA	Vishay-Dale	RES, 330, 5%, 0.25 W, 1206	1206
R912	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R914	1	1.15k	CRCW06031K15FKEA	Vishay-Dale	RES, 1.15 k, 1%, 0.1 W, 0603	0603
RT800	1	10 ohm	B57236S0100M000	EPCOS Inc	Thermistor NTC, 10 ohm, 20%, Disc_11.5mmx6mm	Disc_11.5mmx6mm
RV800	1		S10K275E2	EPCOS Inc	Varistor 275V RMS 10MM Radial, TH	10mm Radial
S900	1		GT12MV3BE	C&K Components	Toggle Switch, SPST 0.4 VA, 20 V, TH	TH, 7.62x5.46mm

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
T500	1	210 uH	RLTI-1149	Renco Electronics	Transformer, 210 uH, TH	1850x1500mil
T900	1	750 uH	750811438	Wurth Elektronik	Transformer, 750 uH, TH	25x22.2mm
TP500, TP800	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP501, TP506, TP801	3	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP502	1	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
TP503	1	Yellow	5004	Keystone	Test Point, Miniature, Yellow, TH	Yellow Miniature Testpoint
U500, U501	2		UCC24610D	Texas Instruments	GREEN Rectifier Controller Device, D0008A	D0008A
U502	1		UCC27714D	Texas Instruments	High-Speed,4A, 600V High-side Low-side Gate Driver Device, D0014A	D0014A
U503, U507, U902	3		PC817X4NSZ0F		Opto-Isolator, 1 Channel, TH	DIP-4
U504	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
U506	1		TL431BIDBZR	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
U800	1		UCC27524AD	Texas Instruments	Dual 5-A High-Speed Low-Side Gate Driver, D0008A	D0008A
U801	1		UCC28063DR	Texas Instruments	Natural Interleaving™ Transition-Mode PFC Controller with Improved Audible Noise Immunity, D0016A	D0016A
U900	1		TPS71550DCKR	Texas Instruments	Single Output LDO, 50 mA, Fixed 5 V Output, 3 to 24 V Input, 5-pin SC70 (DCK), -40 to 85 degC, Green (RoHS & no Sb/Br)	DCK0005A
U901	1		UCC28910DR	Texas Instruments	High-Voltage Flyback Switcher with Primary-Side Regulation and Constant-Current Control, D0007A	D0007A
C531	0	4.7pF	06035A4R7CAT2A	AVX	CAP, CERM, 4.7 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C534, C535	0	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X5R, 0402	0402
Q801, Q804	0	20V	FMMT718TA	Diodes Inc.	Transistor, PNP, 20V, 1.5A, SOT-23	SOT-23
R535	0	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
R536	0	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R537	0	15	CRCW060315R0JNEA	Vishay-Dale	RES, 15 ohm, 5%, 0.1W, 0603	0603
R538, R544	0	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R808, R816	0	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
TP504	0	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP505	0	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U505	0		INA213AIDCK	Texas Instruments	Voltage Output, High or Low Side Measurement, Bi-Directional Zero-Drift Series Current-Shunt Monitor, DCK0006A	DCK0006A

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