

## PMP30162 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	330pF	GRM188R71H331KA01D	MuRata	CAP, CERM, 330pF, 50V, +/-10%, X7R, 0603	0603
C2	1	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22uF, 25V, +/-10%, X7R, 0603	0603
C3	1	120pF	C0603C121J5GACTU	Kemet	CAP, CERM, 120 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C4	1	100uF	EMVY800ATR101MKE0S	Chemi-Con	CAP, AL, 100 µF, 80 V, +/- 20%, 0.33 ohm, SMD	KE0
C5	1	0.27uF	GRM188R71C274KA01D	MuRata	CAP, CERM, 0.27 µF, 16 V, +/- 10%, X7R, 0603	0603
C6, C7, C13, C14, C15	5	2.2uF	C1210C225K1RACTU	Kemet	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	1210
C8	1	100pF	06033C101KAT2A	AVX	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	0603
C9, C11	2	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	0805
C10, C19	2	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C12	1	22uF	EEE-FK1J220XP	Panasonic	CAP, AL, 22 µF, 63 V, +/- 20%, 1.2 ohm, AEC-Q200 Grade 2, SMD	SMT Radial D8
C16	1	100uF	EEUED2E101S	Panasonic	CAP, AL, 100 µF, 250 V, +/- 20%, 0.243706 ohm, TH	18x25
C17	1	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0603	0603
C18	1	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603
C100	1	150pF	GRM31A5C2J151JW01D	MuRata	CAP, CERM, 150 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206
C101	1	0.1uF	C2012X7T2E104K125AA	TDK	CAP, CERM, 0.1 µF, 250 V, +/- 10%, X7T, 0805	0805
D1	1	16V	MMSZ5246BS-7-F	Diodes Inc.	Diode, Zener, 16 V, 200 mW, SOD-323	SOD-323
D2	1	6.8V	MMSZ5235BS-7-F	Diodes Inc.	Diode, Zener, 6.8V, 200mW, SOD-323	SOD-323
D3	1	20V	MMSZ5250B-7-F	Diodes Inc.	Diode, Zener, 20 V, 500 mW, SOD-123	SOD-123
D4, D6	2	BAS16-7-F	BAS16-7-F	Diodes Inc.	Diode, Ultrafast, 75V, 0.3A, SOT-23	SOT-23
D5	1	LQA06T300	LQA06T300	Power Integrations	Diode, Schottky, 300 V, 6 A, TH	TO-220AC
H1	1	7109DG	7109DG	Aavid	Surface mount heat sink for D2PAK	Surface mount heat sink for D2PAK
H2	1	TO-220	274-2AB	Wakefield Solutions	Heat Sink, TO-220, TH	TO-220 Heat Sink
J1	1		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
J2	1		691 101 710 002	Würth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
L1	1	82uH	74435588200	Würth Elektronik	Inductor, Wirewound, Metal Composite, 82 µH, 8.5 A, 0.03 ohm, SMD	22.5x22mm
L2	1	470uH	7447709471	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 470 µH, 1.4 A, 0.56 ohm, SMD	SMD
Q1, Q3	2	MMBT2222	MMBT2222ALT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.6 A, SOT-23	SOT-23
Q2, Q6	2	BSS138W-7-F	BSS138W-7-F	Diodes Inc.	MOSFET, N-CH, 50 V, 0.2 A, SOT-323	SOT-323
Q4	1	MMBT2907	MMBT2907ALT1G	ON Semiconductor	Transistor, PNP, 60 V, 0.6 A, SOT-23	SOT-23
Q5	1	IPB407N30N	IPB407N30N	Infineon Technologies	MOSFET, N-CH, 300 V, 44 A, DDPACK	DDPAK
R1	1	200k	RC0603FR-07200KL	Yageo America	RES, 200 k, 1%, 0.1 W, 0603	0603
R2	1	39.2k	RC0603FR-0739K2L	Yageo America	RES, 39.2 k, 1%, 0.1 W, 0603	0603
R3	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603	0603
R4	1	47.5k	RC0603FR-0747K5L	Yageo America	RES, 47.5 k, 1%, 0.1 W, 0603	0603
R5, R6	2	15.0k	RC0603FR-0715KL	Yageo America	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R7	1	523k	RC0603FR-07523KL	Yageo America	RES, 523 k, 1%, 0.1 W, 0603	0603
R8	1	38.3k	RC0603FR-0738K3L	Yageo America	RES, 38.3 k, 1%, 0.1 W, 0603	0603
R9	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9 ohm, 1%, 0.1W, 0603	0603
R10, R25	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R11	1	2.21	RC0603FR-072R21L	Yageo America	RES, 2.21, 1%, 0.1 W, 0603	0603
R12, R23	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603, RES, 1.00 k, 1%, 0.1 W, 0603	0603
R13	1	130k	RC0603FR-07130KL	Yageo America	RES, 130 k, 1%, 0.1 W, 0603	0603
R14	1	100	RC0603FR-07100RL	Yageo America	RES, 100, 1%, 0.1 W, 0603	0603
R15	1	15.4k	RC0603FR-0715K4L	Yageo America	RES, 15.4 k, 1%, 0.1 W, 0603	0603
R16, R17, R19, R21	4	249k	ERJ-8ENF2493V	Panasonic	RES, 249 k, 1%, 0.25 W, 1206	1206

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R18	1	0.016	ERJ-M1WSF16MU	Panasonic	RES, 0.016, 1%, 1 W, 2512	2512
R20	1	10.0	CRCW201010R0FKEF	Vishay-Dale	RES, 10.0, 1%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R22	1	22.6k	RC0603FR-0722K6L	Yageo America	RES, 22.6 k, 1%, 0.1 W, 0603	0603
R24	1	0.15	CSR2010FTR150	Stackpole Electronics Inc	RES, 0.15, 1%, 1 W, 2010	2010
R100, R101	2	68	CRCW201068R0JNEF	Vishay-Dale	RES, 68, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
TP1, TP5, TP6, TP7	4	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP4	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP3	1	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1	TPS40210DGQR	TPS40210DGQR	Texas Instruments	4.5-V TO 52-V INPUT CURRENT MODE BOOST CONTROLLER, DGQ0010D	DGQ0010D
U2	1	TLC272CD	TLC272CD	Texas Instruments	IC, Precision Dual Operational Amplifiers	SO8

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