

**PMP20808 REV A Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCBA1	1		PMP9280 PCB	Used in BOM report	PMP9280 PCB	N/A
C1, C2, C3, C4, Cx3, Cx4	6	10uF	GRM32ER71H106MA12L	Murata	CAP, CERM, 10uF, 50V, X7R, 20%, 1210	1210
C5	1	4.7uF	GRM21BR71E475KA73L	MuRata	CAP, CERM, 4.7 µF, 25 V, +/- 10%, X7R, 0805	0805
C6	1	1uF	GRM31CR72A105KA01L	MuRata	CAP, CERM, 1uF, 100V, +/-10%, X7R, 1206	1206
C7	1	0.47uF	C1608X7R1H474K080AC	TDK	CAP, CERM, 0.47 µF, 50 V, +/- 10%, X7R, 0603	0603
C8	1	2200pF	GRM1885C1H222JA01D	MuRata	CAP, CERM, 2200pF, 50V, +/-5%, C0G/NP0, 0603	0603
C9	1	560pF	GRM1885C1E561JA01D	MuRata	CAP, CERM, 560 pF, 25 V, +/- 5%, C0G/NP0, 0603	0603
C10	1	560uF	UCZ1V561MNQ1MS	Nichicon	CAP, Al Electrolytic, 560uF, 35V, +/-20%, 0.06 Ohm ESR, 1.7Arms, SMT	
C11, C12	2	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0805	0805
C14	1	100pF	GRM2165C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805
C15	1	4.7uF	C0805C475K4RACTU	Kemet	CAP, CERM, 4.7uF, 16V, X7R, 10%, 0805	0805
C16	1	0.47uF	GRM188R71C474KA88D	MuRata	CAP, CERM, 0.47 µF, 16 V, +/- 10%, X7R, 0603	0603
C17	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C19	1	0.022uF	C0603C223K5RACTU	Kemet	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	0603
Cx1	1	2200uF	50YXJ2200M16X35.5	Rubycon	CAP, Al Electrolytic, 2200uF, 50V, +/-20%, 0.0190hm ESR, 3.15Arms, TH	
Cx2	1	100pF	06035A101FAT2A	AVX	CAP, CERM, 100pF, 50V, +/-1%, C0G/NP0, 0603	0603
D1	1	100V	PMEG10010ELRX	NXP Semiconductor	Diode, Schottky, 100 V, 1 A, AEC-Q101, SOD-123W	SOD-123W
Dx1	1	100V	BAT46WH,115	NXP Semiconductor	Diode, Schottky, 100 V, 0.25 A, SOD-123F	SOD-123F
Dx2	1	15V	1SMA5929BT3G	ON Semiconductor	Diode, Zener, 15 V, 500 mW, SMA	SMA
Dx3	1	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
Gnd, Gnd2, Gnd3, Gnd4	4	Black	5011	Keystone	Test Point, TH, Multipurpose, Black	Keystone5011
H1, H2, H3, H4	4		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	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
Input	1		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
J1, J2, J3, J4	4	50A	CB35-36-CY	Panduit	Terminal 50A Lug	CB35-36-CY
L1	1	10uH	SER2918H-103KL	Coilcraft	Inductor, Shielded E Core, Ferrite, 10uH, 28A, 0.0026 ohm, SMD	SER2918
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
Output, Vin, Vout	3	Red	5000	Keystone	Test Point, Miniature, Red, TH	Keystone5000
Q1, Q2, Qx1, Qx2	4	60V	IPD053N06N	Infineon	MOSFET, N-CH, 60V, 5.3mOhm Max. @ 10Vgs, DPAK	DPAK
R1	1	75.0k	CRCW060375K0FKEA	Vishay-Dale	RES, 75.0 k, 1%, 0.1 W, 0603	0603
R2	1	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.1 W, 0603	0603
R3	1	2.74k	CRCW06032K74FKEA	Vishay-Dale	RES, 2.74 k, 1%, 0.1 W, 0603	0603
R4	1	113k	CRCW0603113KFKEA	Vishay-Dale	RES, 113 k, 1%, 0.1 W, 0603	0603
R5, R13	2	0	CRCW0603000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R8	1	1.21	CRCW08051R21FKEA	Vishay-Dale	RES, 1.21 ohm, 1%, 0.125W, 0805	0805
R9	1	38.3k	CRCW060338K3FKEA	Vishay-Dale	RES, 38.3 k, 1%, 0.1 W, 0603	0603
R10	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R11	1	22.1k	CRCW060322K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.1 W, 0603	0603
R12	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
R14, R17	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
R18	1	150	CRCW0603150RFKEA	Vishay-Dale	RES, 150, 1%, 0.1 W, 0603	0603
Rs1, Rs2	2	0.008	ERJ-M1WSF8M0U	Panasonic	RES, 0.008 ohm, 1%, 1W, 2512	2512

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
Rx1	1	0.2	NKN2WSJT-73-0R2	Yageo	RES, 0.2 ohm, 5%, 2W, Axial TH	Axial
Rx3	1	33	CRCW120633R0JNEA	Vishay-Dale	RES, 33, 5%, 0.25 W, 1206	1206
SW	1	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
U1	1		LM5117PMH/NOPB	Texas Instruments	Wide Voltage Range Buck-Boost Controller, 20-pin TSSOP-EP, Pb-Free	20-TSSOP (0.173", 4.40mm Width) Exposed Pad
C13	0	10uF	GRM188R60J106ME47D	MuRata	CAP, CERM, 10uF, 6.3V, +/-20%, X5R, 0603	0603
C18	0	0.01uF	GRM188R61H103KA01D	MuRata	CAP, CERM, 0.01uF, 50V, +/-10%, X5R, 0603	0603
CM, PWM	0	Red	5000	Keystone	Test Point, Miniature, Red, TH	Keystone5000
COMP, HG, LG, SS	0	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
D2, D4	0	30V	BAT42WS-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D3	0	60V	DFLS260Q-7	Diodes Inc.	Diode, Schottky, 60V, 2A, PowerDI 123	Power DI 123
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
Q3	0	0.25V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23
R6, R7	0	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00k ohm, 1%, 0.1W, 0603	0603
R19	0	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0k ohm, 5%, 0.1W, 0603	0603

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