

## PMP10708 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB	1		PMP10708	Any	Printed Circuit Board	
C1, C2, C4, C8, C11, C15, C16	7	0.1uF	CGA2B3X7R1H104M050BB	TDK	CAP, CERM, 0.1 μF, 50 V, +/- 20%, X7R, 0402	0402
C3, C10	2	100pF	CGA2B2C0G1H101J050BA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C6	1	1uF	CGA5L2X7R1E105M160AA	TDK	CAP, CERM, 1 μF, 25 V, +/- 20%, X7R, 1206_190	1206_190
C9	1	1000pF	CGA2B2C0G1H102J050BA	TDK	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C13	1	0.033uF	CGA2B1X7R1E333K050BC	TDK	CAP, CERM, 0.033 μF, 25 V, +/- 10%, X7R, 0402	0402
C14	1	220pF	GRM1555C1H221JA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C17	1	150pF	CGA2B2C0G1H151J050BA	TDK	CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
Cin1	1	100uF	UBX1J101MPL1TD	Nichicon	CAP, AL, 100 μF, 63 V, +/- 20%, ohm, TH	D10xL20mm
Cin2, Cin3, Cin4	3	4.7uF	CGA6P3X7R1H475M250AB	TDK	CAP, CERM, 4.7 μF, 50 V, +/- 20%, X7R, 1210	1210
Co1_1, Co1_2, Co2	3	22uF	CGA6P1X7R1C226M250AC	TDK	CAP, CERM, 22 μF, 16 V, +/- 20%, X7R, 1210	1210
Co3, Co4	2	10uF	CGA6P1X7R1E106M250AC	TDK	CAP, CERM, 10 μF, 25 V, +/- 20%, X7R, 1210	1210
D1, D2, D3	3	45V	RB520SM-40FH	Rohm	Diode, Schottky, 45 V, 0.2 A, SOD-523	SOD-523
D4	1	45V	STPS1045BY-TR	STMicroelectronics	Diode, Schottky, 45 V, 10 A, DPAK	DPAK
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
J1, J2, J3, J4	4		575-4	Keystone	Standard Banana Jack, Uninsulated, 5.5mm	Keystone_575-4
L1	1	10uH	XAL5050-103MEB	Coilcraft	Inductor, Shielded, Composite, 10 μH, 4.9 A, 0.05 ohm, SMD	XAL5050
Q2	1	60V	BUK9K35-60E,115	NXP Semiconductor	MOSFET, N-CH, 60 V, 22 A, SOT1205	SOT1205
Q4	1	40V	BUK9K18-40E,115	NXP Semiconductor	MOSFET, N-CH, 40 V, 30 A, SOT1205	SOT1205
R1, R12	2	69.8k	MCR01MZPF6982	Rohm	RES, 69.8 k, 1%, 0.063 W, 0402	0402
R2, R3, R5, R6	4	10.0	MCR01MZPF10R0	Rohm	RES, 10.0, 1%, 0.063 W, 0402	0402
R4, R11	2	49.9k	MCR01MZPF4992	Rohm	RES, 49.9 k, 1%, 0.063 W, 0402	0402
R7, RH1, RH2, RL1, RL2	5	0	MCR03EZPJ000	Rohm	RES, 0, 5%, 0.1 W, 0603	0603
R9, R24	2	20.0k	MCR03EZPD2002	Rohm	RES, 20.0 k, 0.5%, 0.1 W, 0603	0603
R10	1	3.32k	CRCW04023K32FKED	Vishay-Dale	RES, 3.32 k, 1%, 0.063 W, 0402	0402
R13, R15	2	100	MCR01MZPF1000	Rohm	RES, 100, 1%, 0.063 W, 0402	0402
R16, R17	2	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R18	1	47	MCR01MZPJ470	Rohm	RES, 47, 5%, 0.063 W, 0402	0402
R21	1	143k	MCR03EZPD1433	Rohm	RES, 143 k, 0.5%, 0.1 W, 0603	0603
RS1	1	0.036	PRL1632-R036-F-T1	Susumu Co Ltd	RES, 0.036, 1%, 1 W, 0612	0612
RS2	1	0.039	PRL1632-R039-F-T1	Susumu Co Ltd	RES, 0.039, 1%, 1 W, 0612	0612
TP1, TP2	2	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
TP3, TP4	2	Black	5001	Keystone	Test Point, TH, Miniature, Black	Keystone5001
TP5, TP6, TP7, TP8, TP10	5	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP9, TP12, TP13	3	Triple	1598-2	Keystone	Terminal, Turret, TH, Triple	Keystone1598-2
U1	1		LM5175QPWPRQ1	Texas Instruments	42 V Wide VIN Synchronous 4-Switch Buck-Boost Controller, PWP0028C	PWP0028C
C12	0	100pF	CGA2B2C0G1H101J050BA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C18	0	1000pF	CGA2B2C0G1H102J050BA	TDK	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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