

PMP20745 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB	1		PMP9334	Any	Printed Circuit Board	
C1	1	10uF	C5750X7S2A106M230KB	TDK	CAP, CERM, 10 μ F, 100 V, +/- 20%, X7S, 2220	2220
C105	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C111, C112	2	470uF	EMVY350ATR471MKE0S	Chemi-Con	CAP, AL, 470 μ F, 35 V, +/- 20%, 0.07 ohm, SMD	KE0
C121	1	0.33uF	GRM21BR71E334KA01L	MuRata	CAP, CERM, 0.33 μ F, 25 V, +/- 10%, X7R, 0805	0805
CC1, CSS	2	0.47uF	C0603C474K4RACTU	Kemet	CAP, CERM, 0.47 μ F, 16 V, +/- 10%, X7R, 0603	0603
CC2	1	330pF	C0603C331K5RACTU	Kemet	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0603	0603
CIN	1	10uF	C2012X5R1E106K125AB	TDK	CAP, CERM, 10 μ F, 25 V, +/- 10%, X5R, 0805	0805
CIN1, CIN2, CIN3, CIN4	4	0.047uF	C1812V473KDRACTU	Kemet	CAP, CERM, 0.047 μ F, 1000 V, +/- 10%, X7R, 1812	1812
CISO1, CISO2	2	1000pF	VJ1210A102JXGAT5Z	Vishay-Vitramon	CAP, CERM, 1000 pF, 1000 V, +/- 5%, C0G/NP0, 1210	1210
CVCC	1	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 μ F, 25 V, +/- 10%, X5R, 0603	0603
D1	1	15V	CMZ5929B TR13	Central Semiconductor	Diode, Zener, 15 V, 1.5 W, SMA	SMA
D2	1	5.1V	MMSZ5231B-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 500 mW, SOD-123	SOD-123
D3	1	18V	CMZ5931B LEAD FREE	Central Semiconductor	Diode, Zener, 18 V, 900 mW, SMA	SMA
D4	1	200V	MBRB20200CTT4G	ON Semiconductor	Diode, Schottky, 200 V, 20 A, DDPAK	DDPAK
D105	1	200V	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200 V, 0.2 A, SOD-123	SOD-123
J1	1		1707027	Phoenix Contact	Terminal Block, 7.62mm, 2 Pos, TH	Terminal Block, 7.62mm, 2 Pos, TH
J2	1		1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
Q100	1	1000V	FQD2N100TM	Fairchild Semiconductor	MOSFET, N-CH, 1000 V, 1.6 A, DPAK	DPAK
Q101	1	40 V	CMST2222A TR	Central Semiconductor	Transistor, NPN, 40 V, 0.6 A, SOT-323	SOT-323
Q102	1	1000V	STP8NK100Z	STMicroelectronics	MOSFET, N-CH, 1000 V, 6.5 A, TO-220AB	TO-220AB
R1, R2, R3	3	200k	CRCW0805200KJNEA	Vishay-Dale	RES, 200 k, 5%, 0.125 W, 0805	0805
R4, R5, R6	3	1.0Meg	CRCW08051M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.125 W, 0805	0805
R106	1	2.49k	CRCW12062K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.25 W, 1206	1206
R108	1	3.32k	CRCW06033K32FKEA	Vishay-Dale	RES, 3.32 k, 1%, 0.1 W, 0603	0603
R110	1	18.7k	RG1608P-1872-B-T5	Susumu Co Ltd	RES, 18.7 k, 0.1%, 0.1 W, 0603	0603
R111	1	1.50k	CRCW06031K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.1 W, 0603	0603
R112	1	16	CRCW060316R0JNEA	Vishay-Dale	RES, 16, 5%, 0.1 W, 0603	0603
R114	1	215k	CRCW0603215KFKEA	Vishay-Dale	RES, 215 k, 1%, 0.1 W, 0603	0603
R115	1	0.51	MCR25JZHFLR510	Rohm	RES, 0.51, 1%, 0.5 W, 1210	1210
R116	1	1.00	CRCW12061R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.25 W, 1206	1206
R117	1	100	CRCW1206100RFKEA	Vishay-Dale	RES, 100, 1%, 0.25 W, 1206	1206
R121	1	392k	CRCW0603392KFKEA	Vishay-Dale	RES, 392 k, 1%, 0.1 W, 0603	0603
RC1	1	1.87k	CRCW06031K87FKEA	Vishay-Dale	RES, 1.87 k, 1%, 0.1 W, 0603	0603
REN	1	20.5k	CRCW060320K5FKEA	Vishay-Dale	RES, 20.5 k, 1%, 0.1 W, 0603	0603
T100	1	3mH	G094215LF	GCI Technologies	Transformer, 3 mH, TH	26x27mm
U1	1		LM5022MM	Texas Instruments	60V Low Side Controller for Boost and SEPIC, 10-pin MSOP	MUB10A
C2, C3, C4, C5	0	10uF	C5750X7S2A106M230KB	TDK	CAP, CERM, 10 μ F, 100 V, +/- 20%, X7S, 2220	2220
D103	0	1200V	STTH112A	STMicroelectronics	Diode, Ultrafast, 1200 V, 1 A, SMA	SMA
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
Z1	0	250V	SMAJ250A	Littelfuse	Diode, TVS, Uni, 250 V, 400 W, SMA	SMA

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