

PMP15023 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB	1		PMP15023	Any	Printed Circuit Board	
Cbat1, Cbat2	2	470pF	06031C471JAT2A	AVX	CAP, CERM, 470 pF, 100 V, +/- 5%, X7R, 0603	0603
Cff	1	3.3pF	08055A3R3CAT2A	AVX	CAP, CERM, 3.3 pF, 50 V, +/- 8%, C0G/NP0, 0805	0805
Cin1, Cin2, Cin5, Cin6	4	10uF	TMK212BBJ106MG-T	Taiyo Yuden	CAP, CERM, 10 µF, 25 V, +/- 20%, X5R, 0805	0805
Cin3, Cin4	2	10uF	CL31A106KBHNNNE	Samsung Electro-Mechanics	CAP, CERM, 10 µF, 50 V, +/- 10%, X5R, 1206_190	1206_190
Cin_F1, CinHF_Filter	2	0.047uF	GRM21BR71H473KA01L	MuRata	CAP, CERM, 0.047 µF, 50 V, +/- 10%, X7R, 0805	0805
Cin_F2	1	0.1uF	GRM219R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0805	0805
Cout1, Cout1_A, Cout1_B, Cout2, Cout2_A, Cout2_B	6	47uF	GRM21BR61A476ME15	MuRata	CAP, CERM, 47 µF, 10 V, +/- 20%, X5R, 0805	0805
Css	1	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603	0603
C_BIAS	1	1uF	GMK212B7105KG-T	Taiyo Yuden	CAP, CERM, 1 µF, 35 V, +/- 10%, X7R, 0805	0805
C_EN1, C_EN2, CBOOT, Cf, Cf_Vinc	5	0.47uF	CGA4J3X7R1H474K125AB	TDK	CAP, CERM, 0.47 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C_IN_Bulk, Cd	2	150uF	EMVE250ADA151MHA0G	Chemi-Con	CAP, AL, 150 µF, 25 V, +/- 20%, SMD	HA0
C_VCAP	1	2.2uF	C2012X5R1H225K125AB	TDK	CAP, CERM, 2.2 µF, 50 V, +/- 10%, X5R, 0805	0805
C_VCC	1	2.2uF	C2012X7R1H225K125AC	TDK	CAP, CERM, 2.2 µF, 50 V, +/- 10%, X7R, 0805	0805
D1	1	100V	1N4148W-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.15 A, SOD-123	SOD-123
D_TVS_Clamp_N	1	14V	SMBJ14A-13-F	Diodes Inc.	Diode, TVS, Uni, 14 V, 23.2 Vc, SMB	SMB
D_TVS_Clamp_P	1	26V	SMBJ26A-13-F	Diodes Inc.	Diode, TVS, Uni, 26 V, 42.1 Vc, SMB	SMB
D_Zener	1	18V	MMSZ5248B-7-F	Diodes Inc.	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
GND1, GND2, GND3, GND4, GND5, GND6, GND7, GND8, GND9	9		5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint
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
JGND1, JGND2, JGND3, JVin, JVout, JVout_A, JVout_B	7		575-8	Keystone	Standard Banana Jack, Uninsulated, 8.9mm	Keystone575-8
L1, L_A, L_B	3	1uH	74437346010	Würth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 1 µH, 8 A, 0.0083 ohm, SMD	4.45x1.8x4.06mm
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
Lf	1	1uH	XAL4020-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 µH, 8.75 A, 0.01 ohm, SMD	4x2.1x4mm
PGOOD, PGOOD_A, PGOOD_B	3		5116	Keystone	Test Point, Miniature, Green, TH	Green Miniature Testpoint
Q1, Q2	2	60V	2N7002ET1G	ON Semiconductor	MOSFET, N-CH, 60 V, 0.26 A, SOT-23	SOT-23
Q3	1	40V	SQJ422EP-T1-GE3	Vishay-Siliconix	MOSFET, N-CH, 40 V, 75 A, PowerPAK_SO-8L	PowerPAK_SO-8L
R1_D1	1	220k	RR1220P-224-D	Susumu Co Ltd	RES, 220 k, 0.5%, 0.1 W, 0805	0805
R2_D1, RFBT, RFT_A, RFT_B	4	100k	ERJ-6ENF1003V	Panasonic	RES, 100 k, 1%, 0.125 W, 0805	0805

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RFBB	1	43.2k	ERJ-6ENF4322V	Panasonic	RES, 43.2 k, 1%, 0.125 W, 0805	0805
RFB_A	1	80.6k	RT0805BRD0780K6L	Yageo America	RES, 80.6 k, 0.1%, 0.125 W, 0805	0805
RFB_B	1	200k	ERJ-6ENF2003V	Panasonic	RES, 200 k, 1%, 0.125 W, 0805	0805
RT	1	20.0k	ERJ-3EKF2002V	Panasonic	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R_PGOOD, R_PGOOD_A, R_PGOOD_B	3	10.0k	RT0805BRD0710K1L	Yageo America	RES, 10.0 k, 0.1%, 0.125 W, 0805	0805
R_Vinc	1	5.10	ERJ-6RQF5R1V	Panasonic	RES, 5.10, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
U1	1		LM73606RNPR	Texas Instruments	3.5V to 36V 5A Synchronous Step-Down Voltage Regulator, RNP0030A	RNP0030A
U2	1		LM26420Q1XSQX/NOPB	Texas Instruments	Dual 2-A, High Frequency Synchronous Buck Regulator, RUM0016A	RUM0016A
U3	1		LM74610QDGKRQ1	Texas Instruments	Zero Iq Reverse Polarity Protection Smart Diode Controller, DGK0008A (VSSOP-8)	DGK0008A
Vin	1		5125	Keystone	Test Point, Multipurpose, Brown, TH	Brown Multipurpose Testpoint
Vout, Vout_A, Vout_B	3		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
Vsw, Vsw_A, Vsw_B	3	Yellow	5014	Keystone	Test Point, TH Multipurpose, Yellow	Keystone5014

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