

PMP20127 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCBA1	1		PMP9253 PCB	N/A	PMP9253 PCB	N/A
C1	1	470pF	CGA3E3C0G2E471J	TDK	CAP, CERM, 470pF, 250V, C0G, 5%, 0603	0603
C2, C3	2	330uF	10SVP330M	Sanyo	CAP, OS-CON, 330uF, 10V, +/-20%, 0.017 ohm, 8x10 SMD	8x10
C4	1	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10uF, 10V, +/-10%, X7R, 0805	0805
C6, C7	2	0.47uF	GRM43DR72E474KW01L	MuRata	CAP, CERM, 0.47 µF, 250 V, +/- 10%, X7R, 1812	1812
C8	1	1uF	C3216X7R2A105M	TDK	CAP, CERM, 1uF, 100V, +/-20%, C Series, 1206	1206
C9	1	0.01uF	C1608C0G1E103J	TDK	CAP, CERM, 0.01uF, 25V, +/-5%, C0G/NP0, 0603	0603
C10	1	100pF	06035A101JAT2A	AVX	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C11	1	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10uF, 25V, +/-10%, X7R, 1206	1206
C12, C18	2	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603
C13	1	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
C14	1	100pF	06033C101KAT2A	AVX	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	0603
C16	1	1000pF	C2012C0G2E102J	TDK	CAP, CERM, 1000pF, 250V, +/-5%, C0G/NP0, 0805	0805
C17	1	0.47uF	GRM188R61A474KA61D	MuRata	CAP, CERM, 0.47uF, 10V, +/-10%, X5R, 0603	0603
Cx1, Cx2	2	47uF	EEU-EE2D470	Panasonic	CAP, Al Electrolytic, 47uF, 200V, +/-20%, xxOhm ESR, 1.1Arms, TH	
Cx3	1	22uF	CGA6P1X7R1C226M250AC	TDK	CAP, CERM, 22 µF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	1210
D1, D8, D8x	3	1.25V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100V, 0.15A, SOD-123	SOD-123
D2	1	100V	MBRB8H100T4G	ON Semi	Diode, Schottky, 100V, 8A, D2PAK	D2PAK
D4	1	75V	1SMB5946BT3G	ON Semiconductor	Diode, Zener, 75 V, 550 mW, SMB	SMB
D5	1	200V	MBRS3200T3G	ON Semiconductor	Diode, Schottky, 200 V, 3 A, SMB	SMB
D7	1	12V	DFLZ12-7	Diodes Inc.	Diode, Zener, 12V, 1W, PowerDI123	PowerDI123
Dx1	1	56V	MMSZ5263BT1G	ON Semiconductor	Diode, Zener, 56 V, 500 mW, AEC-Q101, SOD-123	SOD-123
Dx2	1	5.1V	DZ2J051M0L	Panasonic	Diode, Zener, 5.1V, 200mW, +/-5%, SOD-323F	SOD-323F
H1, H2, H3, H4	4	0.11	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
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
Q1	1	250V	BSC600N25NS3 G	Infineon Technologies	MOSFET, N-CH, 250 V, 25 A, PG-TDSON-8	PG-TDSON-8
Qx1	1	160V	DZT5551-13	Diodes Inc.	Transistor, NPN, 160V, 0.6A, SOT-223	SOT-223
R1a, R1b, R1c,	4	20.0	CRCW120620R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.25 W, 1206	1206
R1d		20.0	OKOW 120020KOT KEA	Visitay Daic	11CO, 20.0, 170, 0.20 VV, 1200	1200
R2	1	3.32	CRCW12063R32FKEA	Vishay-Dale	RES, 3.32 ohm, 1%, 0.25W, 1206	1206
R3	1	75.0k	CRCW120675K0FKEA	Vishay-Dale	RES, 75.0 k, 1%, 0.25 W, 1206	1206
R4	1	12.4k	CRCW060312K4FKEA	Vishay-Dale	RES, 12.4 k, 1%, 0.1 W, 0603	0603
R5	1	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10 ohm, 5%, 0.125W, 0805	0805
R6	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R7	1	0.11	MCR100JZHFLR110	Rohm	RES, 0.11 ohm, 1%, 1W, 2512	2512
R8, R10	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
R9	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
R11	1	4.75k	CRCW06034K75FKEA	Vishay-Dale	RES, 4.75k ohm, 1%, 0.1W, 0603	0603
R12, R17	2	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01k ohm, 1%, 0.1W, 0603	0603
R13	1	1.82k	CRCW06031K82FKEA	Vishay-Dale	RES, 1.82k ohm, 1%, 0.1W, 0603	0603
R14	1	2.15k	CRCW06032K15FKEA	Vishay-Dale	RES, 2.15 k, 1%, 0.1 W, 0603	0603
R16	1	49.9	CRCW120649R9FKEA	Vishay-Dale	RES, 49.9 ohm, 1%, 0.25W, 1206	1206
Rx1	1	20.5K	RMCF1210FT20K5	Stackpole	RES, 20.5Kohm, 1%, 1/3W, 1210	1210
T1	1		PA3855.005NL	Pulse Electronics	3:2.25:1:1 Transformer; 21uH Primary Inductance	eg: 0603, used in PnP report
TP1, TP2, TP3, TP4	4	Double	1503-2	Keystone	Terminal, Turret, TH, Double	Keystone1503-2

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP5, TP6	2	Yellow	5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose
						Testpoint
U1	1		LM5022MM/NOPB	Texas Instruments	60V Low Side Controller for Boost and SEPIC, 10-pin MSOP, Pb-Free	MUB10A
U2	1		PS2501L-1-F3-L-A			PS2501L
U3	1		LMV431ACM5/NOPB	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulators, 5-pin SOT-23,	MF05A
					Pb-Free	
C5	0	0.47uF	GRM43DR72E474KW01L	MuRata	CAP, CERM, 0.47 µF, 250 V, +/- 10%, X7R, 1812	1812
C15	0	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R15	0	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.125W, 0805	0805

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