

PMP21277 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCBA1	1		PMP7921 RevA	Any	PMP7921 RevA	N/A
C2, C4	2	330uF	25SVPF330M	Panasonic	CAP, Aluminum Polymer, 330 μ F, 25 V,+/- 20%, 0.014 ohm, F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm SMD	F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm
C5, C6, C8, Cx1, Cx2, Cx3	6	10uF	GRJ32ER71H106KE11L	Murata	CAP, CERM, 10uF, 50V, X7R, 10%, 1210	1210
C7	1	330uF	AFK337M25F24T-F	Cornell Dubilier	CAP, Al Electrolytic, 330uF, 25V, +/-20%, 0.16Ohm ESR, 0.6Arms@100KHz, SMT	
C9	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603
C10, C12, C13	3	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C11	1	4.7uF	C2012X7R1E475K125AB	TDK	CAP, CERM, 4.7 μ F, 25 V,+/- 10%, X7R, 0805	0805
C14, C16	2	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
C15	1	0.47uF	GRM21BR72A474KA73L	MuRata	CAP, CERM, 0.47uF, 100V, +/-10%, X7R, 0805	0805
C17	1	330pF	C1608C0G1H331J	TDK	CAP, CERM, 330pF, 50V, +/-5%, C0G/NP0, 0603	0603
C18	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
Cx4	1	470pF	GRM2165C2A471JA01D	MuRata	CAP, CERM, 470pF, 100V, +/-5%, C0G/NP0, 0805	0805
D2	1	60V	DB2W60400L	Panasonic	Diode, Schottky, 60V, 2A, SOD-123F	SOD-123F
Dx1	1	30V	BAT54WS-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
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
L1	1	10uH	SER2918H-103KL	Coilcraft	Inductor, Shielded E Core, Ferrite, 10 μ H, 28 A, 0.0026 ohm, SMD	29.7x17.78x27.94mm
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 x 0.200 inch
Q1, Q2	2	60V	CSD18540Q5B	Texas Instruments	MOSFET, N-CH, 60 V, 100 A, DNK0008A (VSON-CLIP-8)	DNK0008A
R2a, R2b	2	0.007	CRE2512-FZ-R007E-3	Bourns	RES, 0.007, 1%, 3 W, AEC-Q200 Grade 0, 2512	2512
R3, R4	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R5, R6, R8, R12	4	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R10	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
R11	1	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3 ohm, 5%, 0.1W, 0603	0603
R13	1	3.92k	CRCW06033K92FKEA	Vishay-Dale	RES, 3.92 k, 1%, 0.1 W, 0603	0603
R14	1	143k	CRCW0603143KfKEA	Vishay-Dale	RES, 143 k, 1%, 0.1 W, 0603	0603
R16	1	36.5k	CRCW060336K5FKEA	Vishay-Dale	RES, 36.5 k, 1%, 0.1 W, 0603	0603
R17	1	6.81k	CRCW06036K81FKEA	Vishay-Dale	RES, 6.81k ohm, 1%, 0.1W, 0603	0603
R18	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R19	1	15.8k	CRCW060315K8FKEA	Vishay-Dale	RES, 15.8 k, 1%, 0.1 W, 0603	0603
R20	1	280	CRCW0603280RFKEA	Vishay-Dale	RES, 280, 1%, 0.1 W, 0603	0603
Rx1	1	7.5	ERJ-12ZYJ7R5U	Panasonic	RESISTOR 7.5 OHM 3/4W 5% 2010	2010
TP1, TP2, TP3, TP4	4		575-8	Keystone	Standard Banana Jack, Uninsulated, 8.9mm	Keystone575-8
TP5, TP7	2	Red	5010	Keystone	Test Point, TH, Multipurpose, Red	Keystone5010
TP6, TP8, TP10	3	Black	5011	Keystone	Test Point, TH, Multipurpose, Black	Keystone5011
TP9, TP11	2	White	5002	Keystone	Test Point, TH, Miniature, White	Keystone5002
TP12	1	White	5012	Keystone	Test Point, TH, Multipurpose, White	Keystone5012
U1	1		LM5122MHX/NOPB	Texas Instruments	3-65V Wide Vin, Current Mode Synchronous Boost Controller with Multiphase Capability, PWP0020A (TSSOP-20)	PWP0020A
C1	0	470pF	GRM2165C2A471JA01D	MuRata	CAP, CERM, 470pF, 100V, +/-5%, C0G/NP0, 0805	0805

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C3	0	330uF	25SVPF330M	Panasonic	CAP, Aluminum Polymer, 330 μ F, 25 V, +/- 20%, 0.014 ohm, F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm SMD	F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm
D1	0	0.77V	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100V, 1A, PowerDI123	PowerDI123
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
Q3	0	60V	CSD18540Q5B	Texas Instruments	MOSFET, N-CH, 60 V, 100 A, DNK0008A (VSON-CLIP-8)	DNK0008A
R1	0	7.5	ERJ-12ZYJ7R5U	Panasonic	RESISTOR 7.5 OHM 3/4W 5% 2010	2010
R7	0	158k	CRCW0603158KFKEA	Vishay-Dale	RES, 158k ohm, 1%, 0.1W, 0603	0603
R9	0	DNP	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3 ohm, 5%, 0.1W, 0603	0603
R15	0	DNP	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R21	0	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603

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