

## PMP21274 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCBoard	1		PMP21274	Any	Printed Circuit Board	
C1	1	470pF	GRM2165C2A471JA01D	MuRata	CAP, CERM, 470pF, 100V, +/-5%, COG/NP0, 0805	0805
C2, C3, C4, C5, C6, C7, C8	7	4.7uF	GRM32ER71K475KE14L	MuRata	CAP, CERM, 4.7 uF, 80 V, +/- 10%, X7R, 1210	1210
C9	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
C10, C12, C13	3	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, COG/NP0, 0603	0603
C11	1	1uF	GCM188R71C105KA64D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C14	1	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0603	0603
C15	1	0.47uF	GRM21BR72A474KA73L	MuRata	CAP, CERM, 0.47uF, 100V, +/-10%, X7R, 0805	0805
C16	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
C17	1	1500pF	GRM1885C1H152JA01D	MuRata	CAP, CERM, 1500 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
C18	1	0.015uF	GRM188R71H153KA01D	MuRata	CAP, CERM, 0.015 uF, 50 V, +/- 10%, X7R, 0603	0603
C19, C20	2	47uF	EEE-FK1K470P	Panasonic	CAP, AL, 47 uF, 80 V, +/- 20%, 0.7 ohm, AEC-Q200 Grade 2, SMD	SMT Radial G
D2	1	100V	MBR1H100SFT3G	ON Semiconductor	Diode, Schottky, 100 V, 1 A, SOD-123FL	SOD-123FL
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	SER2915H-103KL	Coilcraft	Inductor, Shielded E Core, Ferrite, 10 uH, 23.4 A, 0.00186 ohm, SMD	29.7x15.36x27.94mm
L2	1	1uH	XAL4020-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 uH, 8.75 A, 0.01 ohm, SMD	4x2.1x4mm
Q1, Q2, Q3	3	80V	BSC072N08NS5ATMA1	Infineon Technologies	MOSFET, N-CH, 80 V, 74 A, PG-TDSON-8	PG-TDSON-8
R1	1	7.5	ERJ-12ZYJ7R5U	Panasonic	RES, 7.5, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R2	1	0.004	ERJ-M1WSF4M0U	Panasonic	RES, 0.004, 1%, 1 W, 2512	2512
R3, R4	2	100	ESR03EZPJ101	Rohm	RES, 100, 5%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
R5, R8, R12, R21	4	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R10	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
R11	1	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3 ohm, 5%, 0.1W, 0603	0603
R13	1	8.45k	CRCW06038K45FKEA	Vishay-Dale	RES, 8.45 k, 1%, 0.1 W, 0603	0603
R14	1	30k	CRCW060330K0JNEA	Vishay-Dale	RES, 30 k, 5%, 0.1 W, 0603	0603
R16	1	40.2k	CRCW060340K2FKEA	Vishay-Dale	RES, 40.2k ohm, 1%, 0.1W, 0603	0603
R17	1	20.5k	CRCW060320K5FKEA	Vishay-Dale	RES, 20.5 k, 1%, 0.1 W, 0603	0603
R18	1	1.96k	CRCW06031K96FKEA	Vishay-Dale	RES, 1.96k ohm, 1%, 0.1W, 0603	0603
R19	1	86.6k	CRCW060386K6FKEA	Vishay-Dale	RES, 86.6 k, 1%, 0.1 W, 0603	0603
R20	1	34.8	CRCW060334R8FKEA	Vishay-Dale	RES, 34.8, 1%, 0.1 W, 0603	0603
TP1, TP2, TP3, TP4	4		575-8	Keystone	Standard Banana Jack, Uninsulated, 8.9mm	Keystone575-8
TP5, TP7	2		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP6, TP8, TP10	3		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP9, TP11, TP12	3		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
U1	1		LM5122MHX/NOPB	Texas Instruments	Wide Input Synchronous Boost Controller with Multiple Phase Capability, PWP0020A	PWP0020A
C21, C22, C23, C24	0	4.7uF	GRM32ER71K475KE14L	MuRata	CAP, CERM, 4.7 uF, 80 V, +/- 10%, X7R, 1210	1210
D1, D3	0	100V	SSA210	Fairchild Semiconductor	Diode, Schottky, 100 V, 2 A, AEC-Q101, SMA	SMA
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
Q4	0	80V	BSC072N08NS5ATMA1	Infineon Technologies	MOSFET, N-CH, 80 V, 74 A, PG-TDSON-8	PG-TDSON-8
Q5	0	80 V	MMBTA06-7-F	Diodes Inc.	Transistor, NPN, 80 V, 0.5 A, SOT-23	SOT-23

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R7, R15	0	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R9	0	60.4k	CRCW060360K4FKEA	Vishay-Dale	RES, 60.4 k, 1%, 0.1 W, 0603	0603

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