

PMP21814 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB	1		PMP21814	Any	Printed Circuit Board	
C1, C2	2	100uF	EEE-FC1V101P	Panasonic	CAP, AL, 100 uF, 35 V, +/- 20%, 0.15 ohm, SMD	SMT Radial G
C3, C5, C100, C101, C102, C103, C104, C200, C201, C202, C203, C204, C300, C301, C302, C303, C304, C400, C401, C402, C403, C404	22	22uF	C2012X6S1C226M125AC	TDK	CAP, CERM, 22 uF, 16 V, +/- 20%, X6S, 0805	0805
C4	1	0.01uF	C0402C103J5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	0402
C7, C108, C122, C208, C222, C308, C322, C408, C422	9	0.1uF	160R07X104KV4T	Johanson Technology	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X5R, 0402	0402
C10, C11	2	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X7R, 1210	1210
C105, C205, C305, C405	4	6800pF	GRM155R71H682KA88D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0402	0402
C110, C111, C210, C211, C310, C311, C411, C412	8	560uF	EEF-GX0D561L	Panasonic	CAP, Aluminum Polymer, 560 uF, 2 V, +/- 20%, 0.003 ohm, SMD_7.3x1.9x4.3mm SMD	SMD_7.3x1.9x4.3mm
C112, C113, C114, C115, C116, C117, C212, C213, C214, C215, C216, C217, C312, C313, C314, C315, C316, C317, C413, C414, C415, C416, C417, C418	24	100uF	GRM21BR60G107ME15L	MuRata	CAP, CERM, 100 uF, 4 V, +/- 20%, X5R, 0805	0805
C120, C220, C320, C420	4	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C121, C221, C321, C421	4	4.7uF	C1608X7S1A475K080AC	TDK	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X7S, 0603	0603
C123, C223, C323, C423	4	2.2uF	GRM188Z71C225KE43	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603	0603
C124, C125, C224, C324, C424	5	33pF	GRM1555C1E330JA01D	MuRata	CAP, CERM, 33 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
C500, C505	2	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X5R, 0402	0402
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

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
J1	1		PEC04DAAN	Sullins Connector Solutions	Header, 100mil, 4x2, Tin, TH	Header, 4x2, 100mil, Tin
J2	1		5103308-1	TE Connectivity	Header (shrouded), 100mil, 5x2, Gold, TH	5x2 Shrouded header
J3	1		PBC03DAAN	Sullins Connector Solutions	Header, 100mil, 3x2, Gold, TH	Sullins 100mil, 2x3, 230 mil above insulator
J9, J502	2		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
J500, J501	2		U.FL-R-SMT-1(01)	Hirose Electric Co. Ltd.	Receptacle, Ultra Miniature Coaxial, Male Pin, 50 ohm, SMT	Ultra small CO-AX SMD
JP1	1		TS-105-G-A	Samtec	Header, 2.54mm, 5x1, Gold, TH	Header, 2.54mm, 5x1, TH
L100, L200, L300, L400	4	150nH	VLBU1007090T-R15L	TDK	Inductor, Shielded, Ferrite, 150 nH, 70 A, 0.000198 ohm, SMD	7x10mm
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
LED1	1	Green	150060GS75000	Würth Elektronik	LED, Green, SMD	LED_0603
Q500	1	25V	CSD16408Q5	Texas Instruments	MOSFET, N-CH, 25 V, 113 A, DQH0008A (VSON-CLIP-8)	DQH0008A
R1, R2	2	100k	ERJ-2RKF1003X	Panasonic	RES, 100 k, 1%, 0.1 W, 0402	0402
R3	1	17.8k	CRCW040217K8FKED	Vishay-Dale	RES, 17.8 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R5	1	1.00k	RC0402FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.0625 W, 0402	0402
R6	1	24.9k	CRCW040224K9FKED	Vishay-Dale	RES, 24.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R7	1	10.0k	RC0402FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R10, R11, R113, R213, R220, R313, R320, R413, R420	9	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R12, R13, R111, R112, R219, R319, R419, R501, R505	9	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R100, R200, R300, R400	4	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R101	1	16.2k	CRCW040216K2FKED	Vishay-Dale	RES, 16.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R102	1	8.25k	CRCW04028K25FKED	Vishay-Dale	RES, 8.25 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R103, R402	2	11.5k	CRCW040211K5FKED	Vishay-Dale	RES, 11.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R104	1	4.64k	CRCW04024K64FKED	Vishay-Dale	RES, 4.64 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R106, R108	2	21.5k	CRCW040221K5FKED	Vishay-Dale	RES, 21.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R107	1	14.7k	CRCW040214K7FKED	Vishay-Dale	RES, 14.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R109, R209, R309, R409, R503	5	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R110, R210, R310, R410	4	5.11k	CRCW04025K11FKED	Vishay-Dale	RES, 5.11 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R114, R115, R214, R215, R314, R315, R414, R415	8	3.3	CRCW08053R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R202	1	5.36k	CRCW04025K36FKED	Vishay-Dale	RES, 5.36 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R302	1	16.9k	CRCW040216K9FKED	Vishay-Dale	RES, 16.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R500	1	0.01	ERJ-M1WSF10MU	Panasonic	RES, 0.01, 1%, 1 W, 2512	2512
R502	1	1.0	CRCW04021R00JNED	Vishay-Dale	RES, 1.0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
T1, T2, T3, T4, T5, T6	6		CB35-36-CY	Panduit	Terminal 50A Lug	CB35-36-CY

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP1, TP3	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP9, TP16	3		5016	Keystone	Test Point, Compact, SMT	Testpoint_Keystone_Compact
TP4, TP11, TP15	3		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP5, TP6, TP7, TP8, TP12	5		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP10, TP13, TP14	3		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP17	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP18	1		5013	Keystone	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint
U1	1		TPS82130SILR	Texas Instruments	3-A 17V Step-down Converter Module with Integrated Inductor, SIL0008D (uSIP-8)	SIL0008D
U2, U3, U4, U5	4		TPS546D24ARVFR	Texas Instruments	2.95-16V 40A PMBUS Stackable Synchronous Buck Converter, RVF0040A (LQFN-CLIP-40)	RVF0040A
C109, C209, C309, C409	0	1000pF	06031C102JAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 5%, X7R, 0603	0603
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
R105	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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