

Variant: 001
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PMP10514 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCBA	1		PMP9280 Rev1 PCB		PMP9280 Rev1 PCB	
2	C1, C2, C3, C4	4	10uF	CL32B106KBJNNWE	Samsung Electro Mechanics	CAP, CERM, 10uF, 50V, X7R, 10%, 1210	1210
3	C5	1	4.7uF	CL21B475KOFNNNE	Samsung Electro Mechanics	CAP, CERM, 4.7uF, xxV, X7R, xx%, 0805	Used in PnP output
4	C6	1	1uF	GRM31CR72A105KA01L	MuRata	CAP, CERM, 1uF, 100V, +/-10%, X7R, 1206	1206
5	C7	1	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603	0603
6	C8, C14	2	820pF	GRM1885C1H821JA01D	MuRata	CAP, CERM, 820pF, 50V, +/-5%, C0G/NP0, 0603	0603
7	C9, C17	2	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
8	C10	1	680uF	EEU-FR1V681	Panasonic	CAP, AL, 560uF, 35V, +/-20%, TH	10x20
9	C11, C12	2	1uF	08053C105MAT	AVX	CAP, CERM, 1uF, 25V, X7R, 20%, 0805	0805
10	C15, C16	2	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603
11	C19	1	0.022uF	C0603C223K5RACTU	Kemet	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	0603
12	Cx1	1	330uF			CAP, Al Electrolytic, 330uF, 35V, TH	
13	Cx2	1	100pF	06035A101FAT2A	AVX	CAP, CERM, 100pF, 50V, +/-1%, C0G/NP0, 0603	0603
14	D1	1	100V	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100V, 1A, PowerDI123	PowerDI123
15	Gnd, Gnd2, Gnd4	3	Black	5011	Keystone	Test Point, TH, Multipurpose, Black	Keystone5011
16	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
17	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5" #4-40 Nylon	Standoff
18	J1, J2, J3, J4	4	50A	CB35-36-CY	Panduit	Terminal 50A Lug	CB35-36-CY
19	L1	1	10uH	SER2918H-103KL	Coilcraft	Inductor, Shielded E Core, Ferrite, 10uH, 28A, 0.0026 ohm, SMD	SER2918
20	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
21	Q1, Q2	2	55V	STD60N55F3	ST Microelectronics	MOSFET, N-CH, 55V, 8.5mOhms, DPAK	DPAK
22	R1	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
23	R2	1	3.24	CRCW06033R24FKEA	Vishay-Dale	RES, 3.24 ohm, 1%, 0.1W, 0603	0603
24	R3	1	2.26k	CRCW06032K26FKEA	Vishay-Dale	RES, 2.26k ohm, 1%, 0.1W, 0603	0603
25	R4	1	280k	CRCW0603280K FKEA	Vishay-Dale	RES, 280k ohm, 1%, 0.1W, 0603	0603
26	R5, R13, R18	3	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
27	R8	1	1.21	CRCW08051R21FKEA	Vishay-Dale	RES, 1.21 ohm, 1%, 0.125W, 0805	0805
28	R9	1	38.3k	CRCW060338K3FKEA	Vishay-Dale	RES, 38.3k ohm, 1%, 0.1W, 0603	0603
29	R10	1	825	CRCW0603825RFKEA	Vishay-Dale	RES, 825 ohm, 1%, 0.1W, 0603	0603
30	R11	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9k ohm, 1%, 0.1W, 0603	0603
31	R12	1	20.5k	CRCW060320K5FKEA	Vishay-Dale	RES, 20.5k ohm, 1%, 0.1W, 0603	0603
32	R14, R17	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
33	Rs2	1	0.004	ERJ-M1WSF4M0U	Panasonic	RES, 0.004 ohm, 1%, 1W, 2512	2512
34	SW	1	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
35	U1	1		LM25117PMH/NOPB	Texas Instruments	Wide Vin Range Synchronous Buck Controller, 20-pin TSSOP-EP, Pb-Free	20-TSSOP (0.173", 4.40mm Width) Exposed Pad
36	Vin, Vout	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Keystone5000
37	C13	0	10uF	GRM188R60J106ME47D	MuRata	CAP, CERM, 10uF, 6.3V, +/-20%, X5R, 0603	0603
38	C18	0	0.01uF	GRM188R61H103KA01D	MuRata	CAP, CERM, 0.01uF, 50V, +/-10%, X5R, 0603	0603
39	CM, Input, Output, PWM	0	Red	5000	Keystone	Test Point, Miniature, Red, TH	Keystone5000
40	COMP, HG, LG, SS	0	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
41	D2, D4	0	30V	BAT42WS-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
42	D3	0	100V	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100V, 1A, PowerDI123	PowerDI123
43	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
44	Gnd3	0	Black	5011	Keystone	Test Point, TH, Multipurpose, Black	Keystone5011
45	Q3	0	0.25V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23
46	R6, R7	0	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00k ohm, 1%, 0.1W, 0603	0603
47	R19	0	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0k ohm, 5%, 0.1W, 0603	0603
48	Rs1	0	0.004	ERJ-M1WSF4M0U	Panasonic	RES, 0.004 ohm, 1%, 1W, 2512	2512

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