

PMP10506 REV A5 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		PMP10506	Any	Printed Circuit Board	
2	C5, C6, C11	3	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0603	0603
3	C7	1	560pF	GRM1885C1H561JA01D	MuRata	CAP, CERM, 560pF, 50V, +/-5%, COG/NP0, 0603	0603
4	C9	1	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603
5	C10	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, COG/NP0, 0603	0603
6	C12	1	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603	0603
7	C13, C15	2	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
8	C14	1	100pF	08051A101FAT2A	AVX	CAP, CERM, 100pF, 100V, +/-1%, COG/NP0, 0805	0805
9	C16	1	10uF	GRM21BR61C106KE15L	MuRata	CAP, CERM, 10uF, 16V, +/-10%, X5R, 0805	0805
10	C17, C18	2	2200pF	VJ1210Y222KXGAT5Z	Vishay-Vitramon	CAP, CERM, 2200pF, 1000V, +/-10%, X7R, 1210	1210
11	ChF1	1	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0603	0603
12	Cin1, Cin2	2	1uF	C3216X7R2A105M	TDK	CAP, CERM, 1uF, 100V, +/-20%, C Series, 1206	1206
13	Cin3, Cin4, Cin5	3	220uF	EEV-FK1J221Q	Panasonic	CAP, AL, 220uF, 63V, +/-20%, 0.16 ohm, SMD	SMT Radial H13
14	COMP1, EN1, SS1	3	White	5002	Keystone	Test Point, TH, Miniature, White	Keystone5002
15	Cout1, Cout2, Cout3	3	120uF	20SVPF120M	Sanyo	CAP, AL, 120uF, 20V, +/-20%, 0.025 ohm, SMD	F61
16	Cout4, Cx1	2	22uF	GRM31CR61C226KE15L	MuRata	CAP, CERM, 22uF, 16V, +/-10%, X5R, 1206	1206
17	Css1	1	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603
18	Cvcc1	1	4.7uF	C0603C475K8PACTU	Kemet	CAP, CERM, 4.7uF, 10V, +/-10%, X5R, 0603	0603
19	D6, D8, D11	3	1.25V	BAS 16-03W E6327	Infineon Technologies	DIODE SWITCH 80V 0.25A SOD323-2	SOD-323
20	D7	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
21	Dx1	1	5.1V	MMSZ5231BS-7-F	Diodes Inc.	Diode, Zener, 5.1V, 200mW, SOD-323	SOD-323
22	DxIN	1	30V	BAT54T1G	ON Semiconductor	Diode, Schottky, 30V, 0.2A, SOD-123	SOD-123
23	FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
24	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
25	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
26	PGND1, PGND2, VIN1, VOUT1	4		575-4	Keystone	Standard Banana Jack, Uninsulated, 5.5mm	Keystone_575-4
27	PGND3, PGND4, V-1, VO-1	4	Black	5011	Keystone	Test Point, TH, Multipurpose, Black	Keystone5011
28	PR11, SEC1	2	White	5002	Keystone	Test Point, Miniature, White, TH	Keystone5002
29	Q1, Q2	2	150V	BSC190N15NS3 G	Infineon Technologies	MOSFET, N-CH, 150 V, 50 A, PG-TDSON-8	PG-TDSON-8
30	Q5	1	0.25V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23
31	R1, R2	2	182	CRCW0603182RFKFA	Vishay-Dale	RES, 182 ohm, 1%, 0.1W, 0603	0603
32	R5, R11, Rx1	3	1.00k	CRCW06031K00FKFA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
33	R6, R7, R15	3	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
34	R9, R10	2	2.2	CRCW06032R20JNEA	Vishay-Dale	RES, 2.2 ohm, 5%, 0.1W, 0603	0603
35	R12, R23, Rsyn1	3	40.2k	CRCW060340K2FKFA	Vishay-Dale	RES, 40.2k ohm, 1%, 0.1W, 0603	0603
36	R13	1	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3 ohm, 5%, 0.1W, 0603	0603
37	R14	1	4.99k	CRCW06034K99FKFA	Vishay-Dale	RES, 4.99k ohm, 1%, 0.1W, 0603	0603
38	R16	1	10.0	CRCW060510R0FKFA	Vishay-Dale	RES, 10.0 ohm, 1%, 0.125W, 0805	0805
39	R17	1	8.66k	CRCW06038K66FKFA	Vishay-Dale	RES, 8.66k ohm, 1%, 0.1W, 0603	0603
40	R18	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603	0603
41	R21	1	1.00k	CRCW06031K00FKFA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
42	R22	1	47.5k	CRCW060347K5FKFA	Vishay-Dale	RES, 47.5k ohm, 1%, 0.1W, 0603	0603
43	R24	1	41.2k	CRCW060341K2FKFA	Vishay-Dale	RES, 41.2k ohm, 1%, 0.1W, 0603	0603
44	R25	1	13.0k	CRCW060313K0FKFA	Vishay-Dale	RES, 13.0 k, 1%, 0.1 W, 0603	0603
45	R40	1	10.0	CRCW060310R0FKFA	Vishay-Dale	RES, 10.0 ohm, 1%, 0.1W, 0603	0603
46	Rc1	1	20.0k	CRCW060320K0FKFA	Vishay-Dale	RES, 20.0k ohm, 1%, 0.1W, 0603	0603
47	Rs1, Rs2	2	0.01	WLSL2010R0100FEA18	Vishay-Dale	RES, 0.01 ohm, 1%, 1W, 2010	2010
48	Ri2	1	10.0k	CRCW060310K0FKFA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
49	SGND1	1	Black	5001	Keystone	Test Point, TH, Miniature, Black	Keystone5001
50	T1	1		RA7160-AL	Collcraft		AL
51	TP1, TP2	2	White	5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
52	U1	1		LM5122MHXNOPB	Texas Instruments	Wide Input Synchronous Boost Controller with Multiple Phase Capability, PWP0020A	PWP0020A
53	U2	1		CNY17F-1	Lite-On Technology Corp.		eg: 0603, used in PnP report
54	U3	1		LMV431ACM5	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulator, 5-pin SOT-23	MF05A
55	V+1, VO+1	2	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
56	X1	1		P0584NL	Pulse Electronics Corporation	XFRMR GATE DRIVE 450UH 1:1:1 T/H	AL
57	C1	0	2200uF	ECO-S2AP222DA	Panasonic Electronic Components	CAP ALUM 2200UF 100V 20% SNAP	Radial, Can - Snap-In
58	C2, C3	0	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47pF, 50V, +/-5%, COG/NP0, 0603	0603
59	C4	0	10uF	GRM21BR61C106KE15L	MuRata	CAP, CERM, 10uF, 16V, +/-10%, X5R, 0805	0805
60	C8	0	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, COG/NP0, 0603	0603
61	Csb1, Csb2	0	820pF	GRM1885C1H821JA01D	MuRata	CAP, CERM, 820pF, 50V, +/-5%, COG/NP0, 0603	0603
62	D1	0	200V	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200V, 0.2A, SOD-123	SOD-123
63	D2	0	60V	SMBJ60A-13-F	Diodes Inc.	Diode, TVS, Uni, 60V, 600W, SMB	SMB
64	D3	0	200V	ES2D-13-F	Diodes Inc.	Diode, Ultrafast, 200V, 2A, SMB	SMB
65	D4	0	15V	BZG03C15G	ON Semiconductor	Diode, Zener, 15V, 1.5W, SMA	SMA
66	D5	0	1.25V	BAS 16-03W E6327	Infineon Technologies	DIODE SWITCH 80V 0.25A SOD323-2	SOD-323
67	Q3	0	150V	BSC190N15NS3 G	Infineon Technologies	MOSFET, N-CH, 150 V, 50 A, PG-TDSON-8	PG-TDSON-8
68	Q4	0	0.25V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23
69	R3	0	0	CRCW0603000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
70	R4	0	DNP	CRCW0603158KFKEA	Vishay-Dale	RES, 158k ohm, 1%, 0.1W, 0603	0603
71	R8, R19	0	DNP	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
72	R11	0	1.00k	CRCW06031K00FKFA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
73	R20	0	10.0k	CRCW060310K0FKFA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
74	Rsb1, Rsb2, Rsb3, Rsb4	0	34.0	ERJ-14NF34R0U	Panasonic Electronic Components	RES 34 OHM 1/2W 1% 1210 SMD	1210

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