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PMP10099 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1_A, C1_B, C1_C, C1_D, C1_E, C1_F, C1_G, C1_H	8	22uF	EEE-FK1K220P	Panasonic	CAP, AL, 22 µF, 80 V, +/- 20%, 1.3 ohm, SMD	SMT Radial F
2	C2_A, C2_B, C2_C, C2_D, C2_E, C2_F, C2_G, C2_H	8	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	1210
3	C3_A, C3_B, C3_C, C3_D, C3_E, C3_F, C3_G, C3_H	8	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
4	C4_A, C4_B, C4_C, C4_D, C4_E, C4_F, C4_G, C4_H, C10_A, C10_B, C10_C, C10_D, C10_E, C10_F, C10_G, C10_H	16	0.1uF	HMK212B7104KG-T	Taiyo Yuden	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805
5	C5_A, C5_B, C5_C, C5_D, C5_E, C5_F, C5_G, C5_H	8	33pF	GRM2195C2A330JZ01D	MuRata	CAP, CERM, 33 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805
6	C6_A, C6_B, C6_C, C6_D, C6_E, C6_F, C6_G, C6_H	8	330uF	EEE-FK1C331P	Panasonic	CAP, AL, 330 µF, 16 V, +/- 20%, 0.16 ohm, SMD	SMT Radial F
7	C7_A, C7_B, C7_C, C7_D, C7_E, C7_F, C7_G, C7_H	8	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, 1206	1206

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
8	C8_A, C8_B, C8_C, C8_D, C8_E, C8_F, C8_G, C8_H, C9_A, C9_B, C9_C, C9_D, C9_E, C9_F, C9_G, C9_H, C14_A, C14_B, C14_C, C14_D, C14_E, C14_F, C14_G, C14_H, C16_A, C16_B, C16_C, C16_D, C16_E, C16_F, C16_G, C16_H, C24_A, C24_B, C24_C, C24_D, C24_E, C24_F, C24_G, C24_H	40	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
9	C11_A, C11_B, C11_C, C11_D, C11_E, C11_F, C11_G, C11_H, C17_A, C17_B, C17_C, C17_D, C17_E, C17_F, C17_G, C17_H, C26_A, C26_B, C26_C, C26_D, C26_E, C26_F, C26_G, C26_H	24	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
10	C12_A, C12_B, C12_C, C12_D, C12_E, C12_F, C12_G, C12_H, C13_A, C13_B, C13_C, C13_D, C13_E, C13_F, C13_G, C13_H	16	56pF	GRM1885C1H560JA01D	MuRata	CAP, CERM, 56 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
11	C15_A, C15_B, C15_C, C15_D, C15_E, C15_F, C15_G, C15_H, C18_A, C18_B, C18_C, C18_D, C18_E, C18_F, C18_G, C18_H	16	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
12	C19_A, C19_B, C19_C, C19_D, C19_E, C19_F, C19_G, C19_H, C20_A, C20_B, C20_C, C20_D, C20_E, C20_F, C20_G, C20_H	16	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 µF, 25 V, +/- 10%, X7R, 1210	1210
13	C21_A, C21_B, C21_C, C21_D, C21_E, C21_F, C21_G, C21_H	8	10uF	GRM21BR71A106KE51K	MuRata	CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, 0805_140	0805_140
14	C22_A, C22_B, C22_C, C22_D, C22_E, C22_F, C22_G, C22_H	8	22pF	GRM1885C1H220JA01D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
15	C23_A, C23_B, C23_C, C23_D, C23_E, C23_F, C23_G, C23_H	8	6800pF	GRM188R71H682KA01D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0603	0603
16	C25_A, C25_B, C25_C, C25_D, C25_E, C25_F, C25_G, C25_H	8	1000pF	1812GC102KA1	AVX	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1812	1812
17	D1_A, D1_B, D1_C, D1_D, D1_E, D1_F, D1_G, D1_H	8	200V	MURA120T3G	ON Semiconductor	Diode, Ultrafast, 200 V, 1 A, SMA	SMA

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
18	D2_A, D2_B, D2_C, D2_D, D2_E, D2_F, D2_G, D2_H, D5_A, D5_B, D5_C, D5_D, D5_E, D5_F, D5_G, D5_H	16	75V	BAS16-7-F	Diodes Inc.	Diode, Ultrafast, 75 V, 0.3 A, SOT-23	SOT-23
19	D3_A, D3_B, D3_C, D3_D, D3_E, D3_F, D3_G, D3_H	8	60V	MBRS360T3G	ON Semiconductor	Diode, Schottky, 60 V, 3 A, SMC	SMC
20	D4_A, D4_B, D4_C, D4_D, D4_E, D4_F, D4_G, D4_H	8	12V	BZX384-C12,115	NXP Semiconductor	Diode, Zener, 12 V, 300 mW, SOD-323	SOD-323
21	FID1, FID2, FID3, FID4	4		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
22	J1_A, J1_B, J1_C, J1_D, J1_E, J1_F, J1_G, J1_H, J9	9		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
23	J2, J3, J4, J5, J6, J7, J8	7		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
24	L1_A, L1_B, L1_C, L1_D, L1_E, L1_F, L1_G, L1_H	8	330nH	744383360033	Wurth Elektronik eiSos	Inductor, 330 nH, 5.5 A, 0.014 ohm, SMD	SMD, 2-Leads, Body 3.2x3.2mm
25	Q1_A, Q1_B, Q1_C, Q1_D, Q1_E, Q1_F, Q1_G, Q1_H	8	150V	FDS86242	Fairchild Semiconductor	MOSFET, N-CH, 150 V, 4.1 A, SOIC-8	SOIC-8
26	R1_A, R1_B, R1_C, R1_D, R1_E, R1_F, R1_G, R1_H	8	47k	CRCW120647K0JNEA	Vishay-Dale	RES, 47 k, 5%, 0.25 W, 1206	1206
27	R2_A, R2_B, R2_C, R2_D, R2_E, R2_F, R2_G, R2_H	8	100	CRCW0805100RJNEA	Vishay-Dale	RES, 100 ohm, 5%, 0.125W, 0805	0805

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
28	R3_A, R3_B, R3_C, R3_D, R3_E, R3_F, R3_G, R3_H	8	0.2	CSR1206FKR200	Stackpole Electronics Inc	RES, 0.2, 1%, 0.5 W, 1206	1206
29	R4_A, R4_B, R4_C, R4_D, R4_E, R4_F, R4_G, R4_H	8	76.8k	CRCW080576K8FKEA	Vishay-Dale	RES, 76.8 k, 1%, 0.125 W, 0805	0805
30	R5_A, R5_B, R5_C, R5_D, R5_E, R5_F, R5_G, R5_H	8	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0 ohm, 1%, 0.125W, 0805	0805
31	R6_A, R6_B, R6_C, R6_D, R6_E, R6_F, R6_G, R6_H	8	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
32	R7_A, R7_B, R7_C, R7_D, R7_E, R7_F, R7_G, R7_H	8	3.92k	CRCW08053K92FKEA	Vishay-Dale	RES, 3.92k ohm, 1%, 0.125W, 0805	0805
33	R8_A, R8_B, R8_C, R8_D, R8_E, R8_F, R8_G, R8_H, R9_A, R9_B, R9_C, R9_D, R9_E, R9_F, R9_G, R9_H	16	698	CRCW0603698RFKEA	Vishay-Dale	RES, 698, 1%, 0.1 W, 0603	0603
34	R10_A, R10_B, R10_C, R10_D, R10_E, R10_F, R10_G, R10_H, R14_A, R14_B, R14_C, R14_D, R14_E, R14_F, R14_G, R14_H	16	45.3k	CRCW060345K3FKEA	Vishay-Dale	RES, 45.3 k, 1%, 0.1 W, 0603	0603

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
35	R11_A, R11_B, R11_C, R11_D, R11_E, R11_F, R11_G, R11_H, R16_A, R16_B, R16_C, R16_D, R16_E, R16_F, R16_G, R16_H	16	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, 0603	0603
36	R12_A, R12_B, R12_C, R12_D, R12_E, R12_F, R12_G, R12_H, R13_A, R13_B, R13_C, R13_D, R13_E, R13_F, R13_G, R13_H, R18_A, R18_B, R18_C, R18_D, R18_E, R18_F, R18_G, R18_H	24	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
37	R15_A, R15_B, R15_C, R15_D, R15_E, R15_F, R15_G, R15_H	8	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
38	R17_A, R17_B, R17_C, R17_D, R17_E, R17_F, R17_G, R17_H	8	2.74	CRCW06032R74FKEA	Vishay-Dale	RES, 2.74, 1%, 0.1 W, 0603	0603
39	R19_A, R19_B, R19_C, R19_D, R19_E, R19_F, R19_G, R19_H	8	47.5k	CRCW060347K5FKEA	Vishay-Dale	RES, 47.5 k, 1%, 0.1 W, 0603	0603
40	R20_A, R20_B, R20_C, R20_D, R20_E, R20_F, R20_G, R20_H	8	0.33	ERJ-8RQFR33V	Panasonic	RES, 0.33, 1%, 0.25 W, 1206	1206

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
41	R21_A, R21_B, R21_C, R21_D, R21_E, R21_F, R21_G, R21_H, R23_A, R23_B, R23_C, R23_D, R23_E, R23_F, R23_G, R23_H	16	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.1 W, 0603	0603
42	R22_A, R22_B, R22_C, R22_D, R22_E, R22_F, R22_G, R22_H, R24_A, R24_B, R24_C, R24_D, R24_E, R24_F, R24_G, R24_H	16	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
43	R25_A, R25_B, R25_C, R25_D, R25_E, R25_F, R25_G, R25_H	8	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
44	R26_A, R26_B, R26_C, R26_D, R26_E, R26_F, R26_G, R26_H	8	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
45	R27_A, R27_B, R27_C, R27_D, R27_E, R27_F, R27_G, R27_H	8	1.15k	CRCW06031K15FKEA	Vishay-Dale	RES, 1.15 k, 1%, 0.1 W, 0603	0603
46	T1_A, T1_B, T1_C, T1_D, T1_E, T1_F, T1_G, T1_H	8	120 uH	7491193912	Wurth Elektronik eiSos	Transformer, 120 uH, SMT	SMT, 12-Leads, Body 17.5x16mm, Pitch 2.54mm
47	TP1_A, TP1_B, TP1_C, TP1_D, TP1_E, TP1_F, TP1_G, TP1_H, TP3	9	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
48	TP2_A, TP2_B, TP2_C, TP2_D, TP2_E, TP2_F, TP2_G, TP2_H, TP4	9	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
49	U1_A, U1_B, U1_C, U1_D, U1_E, U1_F, U1_G, U1_H	8		UCC29002DR/1	Texas Instruments	ADVANCED 8-PIN LOAD SHARE CONTROLLER	SO-8
50	U2_A, U2_B, U2_C, U2_D, U2_E, U2_F, U2_G, U2_H	8		LM5022MM	Texas Instruments	60V Low Side Controller for Boost and SEPIC	MUB10A
51	U3_A, U3_B, U3_C, U3_D, U3_E, U3_F, U3_G, U3_H	8		FOD817DS	Fairchild Semiconductor	Optocoupler, 5kV RMS, SMT	DIP-4L Gullwing
52	U4_A, U4_B, U4_C, U4_D, U4_E, U4_F, U4_G, U4_H	8		LMV431AIMF	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulator	MF03A

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