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PMP23488.4 REV B Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C26	2	0.01uF	B32921C3103K	TDK	CAP. Film, 0.01 uF, 630 V, +/- 10%, TH	B32921 8mm
2	C2, C3, C16, C17	4	680uF	EKZM350ELL68M1J2SS	United Chemi-Con	Cap Aluminum Lytic 680uF 35V 20% (10 X 25mm) Radial 5mm 2250mA 10000h 105 Bulk	RADIAL
3	C4, C5, C6, C7, C8, C9, C10, C11, C18, C19, C20, C21, C22, C23, C24, C25	16	22uF	GKM325B.J226MM-P	Taiyo Yuden	CAP. CERM, 22 uF, 35 V, +/- 20%, X5R, 1210	1210
4	C12, C13, C14, C15	4	0.022uF	GRM32QR72J223KW01L	MuRata	CAP. CERM, 0.022 uF, 630 V, +/- 10%, X7R, 1210	1210
5	C25	1	1uF	C3216X7R1H106K160AB	TDK	CAP. CERM, 1 uF, 50 V, +/- 10%, X7R, 1206	1206
6	C27	1	150pF	GRM31ASC2J151JW01D	MuRata	CAP. CERM, 150 pF, 630 V, +/- 5%, COG/NP0, 1206	1206
7	C29	1	1000pF	CD45-E2GA102M-NKA	TDK	CAP. CERM, 1000 pF, V, +/- 20%, E, D7X16mm	D7X16mm
8	C30	1	100pF	12061A1010JAT2A	AVX	CAP. CERM, 100 pF, 100 V, +/- 5%, COG/NP0, 1206	1206
9	C32	1	4.7uF	C3216X7R1E1470K05AB	TDK	CAP. CERM, 4.7 uF, 25 V, +/- 10%, X7R, 1206	1206
10	C33	1	1000pF	GRM188R71H102KA01D	MuRata	CAP. CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
11	C34	1	3300pF	C0603C132KRACTU	Kemet	CAP. CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603
12	C35	1	150pF	0603A151AJAT2A	AVX	CAP. CERM, 150 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
13	C36	1	1uF	GRM31MR71H106KA88L	MuRata	CAP. CERM, 1 uF, 50 V, +/- 10%, X7R, 1206	1206
14	C37	1	0.01uF	06031C103JAT2A	AVX	CAP. CERM, 0.01 uF, 100 V, +/- 5%, X7R, 0603	0603
15	C38, C39	2	10uF	C1206C106J3RACAU0	Kemet	CAP. CERM, 10 uF, 25 V, +/- 5%, X7R, AEC-Q200 Grade 1, 1206	1206
16	C41	1	220pF	C0603X222K3RACTU	Kemet	CAP. CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
17	C42, C44	2	220pF	C0603X221K5RACTU	Kemet	CAP. CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
18	C43	1	0.01uF	GCM155R71E103KA37D	MuRata	CAP. CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0402	0402
19	C45	1	22uF	TMK316B8J226ML-T	Taiyo Yuden	CAP. CERM, 22 uF, 25 V, +/- 20%, X5R, 1206, 190	1206 190
20	C46, C48, C52, C55, C60	5	100pF	CD402C101J3GACTU	Kemet	CAP. CERM, 100 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
21	C47, C56	2	1uF	GRM216R81E105KA12D	MuRata	CAP. CERM, 1 uF, 25 V, +/- 10%, X5R, 0805	0805
22	C49, C50, C53, C54, C67	5	1uF	GRM155R8Y105KE1TD	MuRata	CAP. CERM, 1 uF, 35 V, +/- 10%, X5R, 0402	0402
23	C51	1	1000pF	GRM1885C1E102JA01D	MuRata	CAP. CERM, 1000 pF, 25 V, +/- 5%, COG/NP0, 0603	0603
24	C57, C64, C66	3	0.1uF	C0603C104KSRACU0	Kemet	CAP. CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
25	C59	1	0.1uF	GRM1555C1E102JA01D	MuRata	CAP. CERM, 0.1 uF, 50 V, +/- 15%, COG/NP0, 0402	0402
26	C59	1	0.1uF	C1005X7R1H104K050BB	TDK	CAP. CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402	0402
27	C62, C63	2	22uF	CL21A226MAONNNE	Samung Electro-Mechanics	CAP. CERM, 22 uF, 25 V, +/- 20%, X5R, 0805	0805
28	C65	1	2.2uF	C1608X7R1V220K080AC	TDK	CAP. CERM, 2.2 uF, 35 V, +/- 10%, X5R, 0603	0603
29	D2	1	650V	GB01SLT08-214	Genesic Semiconductor	Diode, Schottky, 650 V, 1 A, SMD	SMB
30	D3	1	15V	MM3215VST1G	ON Semiconductor	Diode, Zener, 15 V, 300 mW, SOD-323	SOD-323
31	HS_1_OPTO1, Vout_A3	3		5012	Keystone Electronics	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
32	L1	1	15uH	XFL2006-153MEB	Coilcraft	Inductor, Shielded, Composite, 15 uH, 0.29 A, 2.02 ohm, SMD	1.9x0.6x2mm
33	PGND, SGND, SGND_m	3		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
34	Q2, Q3	2	60 V	MMBT40SLT1G	ON Semiconductor	Transistor, NPN, 60 V, 0.5 A, AEC-Q101, SOT-23	SOT-23
35	Q4	1	40V	CSD18504Q5A	Texas Instruments	MOSFET, N-CH, 40 V, 15 A, DQJ0008A (VSONP-S)	DQJ0008A
36	R1, R2	2	0.005	CSNL010FTSL00	Stackpole Electronics Inc	RES, 0.005, 1%, 1.5 W, 2010	2010
37	R3	1	110	RC1206FR-07110RL	Yageo America	RES, 110, 1%, 0.25 W, 1206	1206
38	R5, R32, R33, R43, R44, R57, R59	7	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
39	R6	1	9.09k	RC0603FR-079K09L	Yageo	RES, 9.09 k, 1%, 0.1 W, 0603	0603
40	R7	1	0	RMCF0603210R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
41	R8, R11, R16	3		KTR18E2PF3304	Rohm Semiconductor	3.3 MOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric)	1206
42	R9	1	2.05k	RC0603FR-072K05L	Yageo	RES, 2.05 k, 1%, 0.1 W, 0603	0603
43	R10	1	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
44	R12	1	147k	RC0603FR-07147KL	Yageo	RES, 147 k, 1%, 0.1 W, 0603	0603
45	R13	1	10	RC0603FR-0710RL	Yageo	RES, 10, 0, 0.1 W, 0603	0603
46	R14, R37, R46	3	470	CRCW0603470R-JNEA	Vishay-Dale	RES, 470, 5%, 0.1 W, 0603	0603
47	R15	1	10.0k	ERJ-2RK11002X	Parasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
48	R17	1	1.00Mega	RC0402FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.063 W, 0402	0402
49	R18, R22	2	33.2k	RC0603FR-0733K2L	Yageo	RES, 33.2 k, 1%, 0.1 W, 0603	0603
50	R19	1	0	RMCF1206210R00	Stackpole Electronics	00 ±0.25W 1206 Thick Film Chip Resistor AEC-Q200 compliant	1206
51	R21	1	10.0k	RMCF0603F110K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
52	R23, R25	2	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
53	R24	1	0	RK7321ETTP	KOA Speer	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
54	R26	1	549k	RC0603FR-07549KL	Yageo	RES, 549 k, 1%, 0.1 W, 0603	0603
55	R27	1	23.7k	CRCW060323K7FKEA	Vishay-Dale	RES, 23.7 k, 1%, 0.1 W, 0603	0603
56	R28	1	0.75k	RS2721V247A060	TDK	NTC Thermistor 470K 0603 (1608 Metric)	0603
57	R29	1	133k	RC0603FR-07133KL	Yageo	RES, 133 k, 1%, 0.1 W, 0603	0603
58	R30	1	365k	RC0603FR-07365KL	Yageo	RES, 365 k, 1%, 0.1 W, 0603	0603
59	R31	1	35.7k	RC0603FR-0735K7L	Yageo	RES, 35.7 k, 1%, 0.1 W, 0603	0603
60	R34, R49	2	150	RC0603FR-07150RL	Yageo	RES, 150, 1%, 0.1 W, 0603	0603
61	R35, R50	2	120k	ERJ-2RK1203X	Parasonic	RES, 120 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
62	R36, R45	2	4.99k	RC0402FR-074K99L	Yageo America	RES, 4.99 k, 1%, 0.063 W, 0402	0402
63	R38, R47	2	68.1k	RC0402FR-0768K1L	Yageo America	RES, 68.1 k, 1%, 0.063 W, 0402	0402
64	R39, R40	2	23.7	RC1206FR-0723R7L	Yageo America	RES, 23.7, 1%, 0.25 W, 1206	1206
65	R41	1	100	ERJ-3EK1100V	Parasonic	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
66	R42	1	10.0k	MS342K12B10E0T	ITT Electronics/IRC	RES, 10.0 k, 1%, 0.1 W, 0603	0603
67	R46	1	0.1k	FR-02HF-7010X	Parasonic	RES, 27.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
68	R51	1	13.0k	CRCW0402130KFKE	Vishay-Dale	RES, 13.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
69	R52, R53	2	4.75	CRCW04024R75FKE	Vishay-Dale	RES, 4.75, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
70	R54	1	100	RC0402FR-07100RL	Yageo America	RES, 100, 1%, 0.063 W, 0402	0402
71	R55	1	130k	CRCW0402130KFKE	Vishay-Dale	RES, 130 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
72	R56	1	270	CRCW0402270R-JNE	Vishay-Dale	RES, 270, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
73	R58	1	10.0k	RT10402B00710KL	Yageo America	RES, 10.0 k, 1%, 0625 W, 0402	0402
74	R61, R62	2	0	ERJ-3EJ36V0R00V	Parasonic	RES, 0, 5%, 0.1 W, 0603	0603
75	T1	1		P-23023	Cyntec	Power transformer for PMP23428 OLED Backlight LLC	SMT_XFRMR_61MM
76	U1	1		VO618A-3	Vishay-Semiconductor	Optocoupler, 5.3 kV, 100-200% CTR, SMT	0.31MM0
77	U2	1		UCC256613DDBR	Texas Instruments	750kHz Wide VIN/VOUT Range LLC Controller Optimized for Light Load Efficiency	DIP_4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
78	U3	1		TL432BQDB2R	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
79	U4, U11	2		LMC3622RE0	Texas Instruments	650-V GAN FET With Integrated Driver and Current Sense Emulation	VQFN-N8
80	U5, U6	2		LMG3100R017	Texas Instruments	100V, 84-A GaN with Integrated Driver	VQFNFCRLF15
81	U6, U10	2		NCP4306AHZZADR2G	onsemi	Power Supply Controller Secondary-Side Controller, Synchronous Rectifier 8-SOIC	SOIC-8
82	U7, U8	2		LM317KTR	Texas Instruments	34 Pin 1.5A Adjustable Positive Voltage Regulator, KTT10003B (TO-263-3)	KTT10003B
83	U12	1		INA225AIDGKR	Texas Instruments	36-V Programmable-Gain, Bidirectional, Zero-Drift, High-Speed, Voltage Output Current-Shunt Monitor, DGK0008A (VSSOP-8)	DGK0008A
84	U13	1		LMR36501FSRPER	Texas Instruments	3-V to 65-V, 100-mA and 150-mA Wide VIN Synchronous Buck Converter Optimized for Size and Light Load Efficiency	VQFN-HR9
85	U14	1		TLV9031QDCKR01	Texas Instruments	Automotive single low-voltage comparator with push-pull output 5-SC70 -40 to 125	SC70-5
86	VCC, Vin, Vout, Vout_Inj	4		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
87	Vout_Inj	1		5013	Keystone Electronics	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint
88	C31	0	4700pF	C0603C472J1GAC7867	Kemet	CAP. CERM, 4700 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
89	C40	0	1000pF	C1608X7R2A102K080AA	TDK	CAP. CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	0603
90	C61	0	47pF	GRM1555C1E470JA01D	MuRata	CAP. CERM, 47 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
91	D1	0	15V	MM3215VST1G	ON Semiconductor	Diode, Zener, 15 V, 300 mW, SOD-323	SOD-323
92	D4, D5	0		BAT72C1,215	Nexperia	Diode Array 1 Pair Common Cathode Schottky 40 V 200mA (DC) Surface Mount TO-236-3, SC-59, SOT-23-3	SOT23-3
93	J1, J2, J3, J4, J5	0		675-4	Keystone	Standard Banana Jack, Unshielded, 5.5mm	Keystone, 575-4
94	Q1	0	600V	BSS127S-7	Diodes Inc.	MOSFET, N-CH, 600 V, 0.08 A, SOT-23	SOT-23
95	R4	0	0.21k	RC0603FR-071K21L	Yageo	RES, 1.21 k, 1%, 0.1 W, 0603	0603
96	R20	0	2.00k	RC0603FR-072KL	Yageo	RES, 2.00 k, 1%, 0.1 W, 0603	0603
97	R60	0	12.4k	CRCW040212K4FKED	Vishay-Dale	RES, 12.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402