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PMP40988 REV E3 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB101	1		PMP40988	Any	Printed Circuit Board	
2	C1	1	1uF	GMK107B105KA-1	Taiyo Yuden	CAP, CERM, 1 uF, 35 V, +/- 10%, XSR, 0803	803
3	C2, C3, C4, C5	4	150nF	C2225C154K06R700	KEMET	Cap Ceramic 0.15uF 100V X7R 10% SMD 2225 125°C Embossed Plastic T/R	C2225
4	C101, C102	2	0.047uF	GRM32ER72J473K001L	MuRata	CAP, CERM, 0.047 uF, 630 V, +/- 10%, X7R, T210	C210
5	C104, C105, C111, C112	4	1000pF	CE2E3SA102K03AY25F	MuRata	CAP, CERM, 1000 pF, 400 VADY2 440 VAC, +/- 20%, E, TH	TH 2-Leads, Body 7x5mm, Pin Spacing 7.5mm
6	C106, C110, C124	3	470nF	RS20247050P-3K	KEMET	Cap Film 0.47uF 630V PP 10% Dipped 15mm 110°C Bulk	RADML
7	C108, C109	2	2.2uF	8.90334E+11	Wurth Elektronik	WVAP.FTXF Film Capacitor, TH, L26W15H25, 2.2uF, 310V	26mmx15mmx25mm
8	C113, C120, C263	3	0.1uF	CC0402K070R88B104	Yageo	CAP, CERM, 0.1 uF, 25 V +/- 10%, X7R, 0402	402
9	C114	1	1uF	GRM188R0J105KE26D	MuRata	CAP, CERM, 1uF, 6.3V +/- 10%, XSR, 0603	603
10	C115	1	1000pF	GRM188R0J105KA01D	MuRata	CAP, CERM, 1000pF, 6.3V +/- 10%, XSR, 0402	402
11	C116, C118, C126	3	22uF	C20126ATC22M125AC	TDK	CAP, CERM, 22 uF, 16 V, +/- 20%, XSR, 0805	805
12	C117	1	1uF	CC0402MR05R88B105	Yageo America	CAP, CERM, 1 uF, 10 V +/- 20%, XSR, 0402	402
13	C119	1	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1uF, 25V +/- 10%, X7R, 0603	603
14	C122, C123, C128	3	1000pF	CC0402C102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	402
15	C127	1	4700pF	CC0402K070R88B472	Yageo	CAP, CERM, 4700 pF, 25 V +/- 10%, X7R, 0402	402
16	C130, C131	2	0.1uF	C1812W104KDRACU1	Kemet	CAP, CERM, 0.1 uF, 1000 V, +/- 10%, X7R, 1812	1812
17	C261	1	0.1uF	GRM155R0J105KA01D	MuRata	CAP, CERM, 0.1uF, 6.3V +/- 10%, X7R, 0402	402
18	C263, C268, C2610, C2613, C2615	5	0.047uF	C1005XR1A47K0505BA	TDK	CAP, CERM, 0.047 uF, 16 V, +/- 10%, XSR, 0402	402
19	C264, C265, C268, C2624	4	220pF	CC0402K070R88B221	Yageo	CAP, CERM, 220 pF, 50 V +/- 10%, X7R, 0402	402
20	C268, C2612, C2614, C2616	4	10pF	8.85012E+11	Wurth Elektronik	CAP, CERM, 10 pF, 50 V, +/- 5%, CG0.NP0, 0402	402
21	C2619	1	100uF	EEUE4B1E101S	Panasonic	CAP, AL, 100 uF, 25 V, +/- 20%, TH	6.3x11.2mm
22	C2620	1	4.7uF	C201207R1E473K125AB	TDK	CAP, CERM, 4.7 uF, 25 V +/- 10%, X7R, 0805	805
23	C2621	1	22uF	C2112A2R22K020NNE	Samsung Electro-Mechanics	CAP, CERM, 22 uF, 6.3 V +/- 10%, XSR, 0805	805
24	C2622	1	2.2uF	GRM155R0J1E225ME1SD	MuRata	CAP, CERM, 2.2 uF, 25 V +/- 20%, XSR, 0402	402
25	D101, D102, D104, D105	4	600V	VS-1SEVL06-M31	VISHAY	Diode, Ultrafast, 600 V, 15 A, DPAK	DPAK
26	D103, D106	2	30V	8AT94WS-7-F	Diodes inc.	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
27	D107	1	600V	MUR1601T3G	ON Semiconductor	Diode, Ultrafast, 600V, 1A, SMA	SMA
28	D1, D2	2		W505-X00045	Hanwin	12 Position Receptacle Connector 0.050" (1.27mm) Through Hole Gold	HDR12
29	D1, J3	2		MS2-04022V10345	Hanwin	Connector Header Through Hole 3 position 0.050" (1.27mm)	HDR3
30	J4, J7	2		MS2-03030242	Hanwin	2 Position Receptacle Connector 0.050" (1.27mm) Through Hole Gold	HDR2
31	J6	1		SSW-103-02-G-D	SAMTEC	8 Position Receptacle Connector Through Hole	RCPT6
32	J8	1		SSW-102-02-G-D	Samtec	Board-To-Board Connector, Dual, SSW Series, 4 Contacts, Receptacle, 2.54 mm, Through Hole, 2 Rows	HDR4
33	J101	1		28286-3	TE Connectivity	Receptacle, 3x1, 5mm, R/A, TH	Receptacle, 3x1, 5mm, R/A, TH
34	R201, R202	2		MS2-04022V10345	Hanwin	Connector Header Through Hole 20 position 0.050" (1.27mm)	HDR20
35	R204	1		6.91214E+11	Wurth Elektronik	Terminal Block, 3.5mm, 2x1, TH, TH	Receptacle, 3.5mm, 2x1, TH
36	L1, L2	2	140uH	PAL483, 1448L	Pulse	Inductor, Buck/Boost, EDY35, TH	PTH_IND_36MMx33MM
37	L102, L104	2	16.2uH	86H-22021C	Delta Electronics	Inductor 16.2uH 12mOhm 30x14.2x33.3 TH	PTH_IND_30MMx14MM
38	L103	1		AIRCDC3000X0E2B2N2B	Sunlord	Common Mode Choke 2.8mH 3.8mΩ	PTH_30MMx30MM
39	L106	1		YXS0660T	Yavin Electronics	COMMON MODE CHOKER 1mH @ 10kHz 2.4mhm 1000VAC	PTH_30MMx19MM
40	L501	1	10uH	74438336100	Wurth Elektronik	Inductor, Shielded, 10 uH, 1.2 A, 0.322 ohm, SMD	SMD, 2-Leads, Body 2x2x2mm
41	N.L.F., N.L.F., 2, PGND_LF_1, PGND_LF_2, PGND_PH1_1, PGND_PH1_2, PGND_PH2_1, PGND_PH2_2, SW_PH1_1, SW_PH1_2, SW_PH2_1, SW_PH2_2, VB_LF_1, VB_LF_2, VB_PH1_1, VB_PH1_2, VB_PH2_1, VB_PH2_2	18		0312-0-15-15-34-21-10-0	Mil-Max	Pin Receptacle, .032-.048".075".04", Gold, TH	Pin Receptacle
42	Q101, Q106	2		IP16R0622S7XMA1	Infineon	MOSFET N-CH 650V 23A HSOF-8	HSOF-8
43	R1	1	0	ELJH050R00V	Panasonic	0 Ohms, Jumper 0.125W, 1/8W Chip Resistor 0603 (1608 Metric)	0603
44	R101, R104	2	1	RC0603FR-071RL	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	603
45	R102, R111	2	10	RC0603FR-0710RL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	603
46	R103, R108	2	10.0k	RC0603FR-0710KL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	603
47	R105, R114	2	1.00k	RC0603FR-071KL	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	603
48	R107, R108, R109, R110, R112, R113	6	100k	RC1206FR-07100KL	Yageo America	RES, 100 k, 1%, 0.25 W, 1206	1206
49	R111	1	20	RC0603FR-0720RL	Yageo	RES, 20.0 k, 1%, 0.1 W, 0603	603
50	R118, R120, R122	3	1.0k	CR05V0402R1K00JNE0	Vishay-Dale	RES, 1.0k ohm, 5%, 0.063W, 0402	402
51	R119	1	5.11	RC0603FR-075R11L	Yageo	RES, 5.11 k, 1%, 0.1 W, 0603	603
52	R121	1	1.00M	RC0402FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.063 W, 0402	402
53	R201	1	4.3k	RT0402FRE074K3L	Yageo	RES, 4.3 k, 1%, 0.063 W, 0402	402
54	R202, R203, R204, R206, R207, R208, R212, R213, R214, R221, R222, R224	12	1.00k	RC1206FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.25 W, 1206	1206
55	R205	1	5.11k	CR05V04025K11FKED	Vishay-Dale	RES, 5.11 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
56	R210	1	10.0k	CR05V040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
57	R211	1	100	RC0402FR-07100RL	Yageo America	RES, 100.0 k, 1%, 0.063 W, 0402	402
58	R216	1	0	CR05V04020000JED	Vishay-Dale	RES, 0.000, 0.063 W, AEC-Q200 Grade 0, 0402	402
59	R217, R218, R219	3	18.0k	CR05V040218K0FKED	Vishay-Dale	RES, 18.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
60	R220, R223, R229, R237	4	15.0k	RC0402FR-0715KL	Yageo America	RES, 15.0 k, 1%, 0.063 W, 0402	402
61	R225	1	18k	CR05V040218K0FKEDC	Vishay	Res Thick Film 0402 18K Ohm 1% 1/16W ±100ppm/°C Molded SMD Paper T/R	402
62	R232	1	6.19k	CR05V04026K19FKED	Vishay-Dale	RES, 6.19 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
63	R240	1	1.00k	RC0402FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.0625 W, 0402	402
64	R241	1	88.7k	CR05V040288K7FKED	Vishay-Dale	RES, 88.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
65	R242	1	1.00k	RC0402FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.0625 W, 0402	402
66	R243	1	22.1k	CR05V040222K1FKED	Vishay-Dale	RES, 22.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
67	R11	1	56	B59451C1130B070	TDK	Thermistor NTC, 470 ohm, 20%, 15x7mm	15x7mm
68	TP101	1	Red	S003	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
69	TP103	1	Black	S001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
70	U1	1		UC535S58DR	Texas Instruments	3.4VRMS Single-Channel Isolated Gate Drivers, D0008B (SOIC-8)	D0008B
71	U101	1		ACS724K0MTR-50AB-T	Allegro Microsystems Inc	High Accuracy, Hall-Effect Based Current Sensor, SOIC-16	SOIC, 16-Leads, Body 10.3x7.5mm, Pitch 1.27mm
72	U103	1		UCCE1225ANPL	Texas Instruments	4A/BA Isolated Dual-Channel Gate Driver, NPL0013A (VILGA-13)	NPL0013A
73	U201	1		OPA333AIDBVR	Texas Instruments	Precision, Low Noise, Low to Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBVS), Green (RoHS & no Sbr/B)	DBV0005A
74	U204	1		TPS563040DBVR	Texas Instruments	4V to 36 V 0.6 A Synchronous Step-Down Converter, DBV0006A (SOT-23-6)	DBV0006A
75	U205	1		TLV431AIDB2R	Texas Instruments	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, -40 to 85 degC, 3-pin SOT-23 (DB2), Green (RoHS & no Sbr/B)	DB20003A
76	U215	0	4.87k	ERA-2AE48B1TX	Panasonic	RES, 4.87 k, 0.1%, 0.062 W, AEC-Q200 Grade 0, 0402	402