

PMP41083 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC8			PMP41083	Anv	Printed Circuit Board	
2	C1, C8, C9	3	10uF	CL05A106MPSNUNC	Samsung Electro-Mechanics	CAP. CERM. 10 uF, 10 V, +/- 20%, X5R, 0402	0402
3	C2	1	4.7uF	GRM21BR61H475KE51L	MuRata	CAP. CERM. 4.7 uF, 50 V, +/- 10%, X5R, 0805	0805
4	C3, C4, C5, C6	4	0.01uF	CM02C103J5RACU	Kemet	CAP. CERM. 0.01 uF, 50 V, +/- 5%, X7R, 0402	0402
5	C10, C11	2	330pF	CGA1A2X7R1H330K030BA	TDK	CAP. CERM. 330 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0201	0201
6	C12, C13, C20, C70	4	10uF	CL31B106KHNNNE	Samsung	CAP. CERM. 10 uF, 50 V, +/- 10%, X7R, 1206	1206
7	C14	1	0.1uF	GCM188R71H104KA57D	MuRata	CAP. CERM. 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
8	C15	1	0.1uF	GKM105B110KV1F	Taiyo Yuden	CAP. CERM. 0.1 uF, 35 V, +/- 10%, X5R, 0402	0402
9	C27, C28	2	0.47uF	CB03C274AK48ACU	Kemet	CAP. CERM. 0.47 uF, 16 V, +/- 10%, X7R, 0603	0603
10	C29, C48, C61	3	4.7uF	GCJ32DC72A475KE01L	Murata	4.7uF +/-10% 100V Ceramic Capacitor X7S 1210 (3225 Metric)	1210
11	C30, C31, C32, C33, C37, C40, C43, C37, C64, C68	10	0.1uF	HMK107B7104KAHT	Taiyo Yuden	CAP. CERM. 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
12	C34	1	100pF	GCM1885CA2A101JA16D	MuRata	CAP. CERM. 100 pF, 100 V, +/- 5%, COG/NP0, AEC-Q200 Grade 1, 0603	0603
13	C35, C36	2	33pF	06031A330JAT2A	AVX	CAP. CERM. 33 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
14	C38, C39	2	0.1uF	06033C104KAT2A	AVX	CAP. CERM. 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
15	C41, C54, C60, C63, C69	5	1uF	08051C105K4Z2A	AVX	CAP. CERM. 1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
16	C42, C47	2	4.7uF	CGA4J1X7R1E475K125AE	TDK Corporation	Cap Ceramic 4.7uF 25V X7R 10% Pad SMD 0805 +125°C Automotive T/R	0805
17	C44, C49, C51, C67	4		PCR1J101MCL1GS	Nichicon	100uF 63V Polymer ALUM Electrolytic Capacitor, CR Series 4000h 10.3x10.3x12.6mm	SMD_RADIAL
18	C53, C59	2	10uF	C325X7R2A106K250AC	TDK	10 uF +/-10% 100V Ceramic Capacitor X7R 1210 (3225 Metric)	1210
19	C56	1	100pF	CGA3E2CG2A101J080AA	TDK	Multilayer Ceramic Capacitors MLCC - SMD/SMT CGA 0603 100V 100pF COG 5% AEC-Q200	0603
20	C58, C62	2	56uF	EE4ZC1J560F	Panasonic	CAP. Polymer Hybrid, 56 uF, 63 V, +/- 20%, 30 ohm, 10x10 SMD	10x10
21	D1, D2	2	5V	CDSOD323-T05C	Bourns	Diode, TVS, Bi, 5 V, SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark	SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark
22	D4, D5	2		V1FM10-M3H	Vishay	Diode Schottky 1A Surface Mount DO-219AB (SMF)	DO-219AB
23	J2	1		DX07S024JJ2R1300	JAE Electronics	Receptacle, USB 3.1 Type C, R/A, Gold, SMT	Receptacle, USB 3.1 Type C, R/A, SMT
24	J3	1		OSTTE030161	On-Shore Technology	Terminal Block, 3.5mm, 3x1, Tin, R/A, TH	Terminal Block, 3.5mm, 3x1, TH
25	J6	1		PEC05DAAN	Sullins Connector Solutions	Header, 100mil, 5x2, Tin, TH	Header, 5x2, 100mil, Tin
26	JP1	1		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
27	L1	1	21 ohm	FBM1215HM210NT	Taiyo Yuden	Ferrite Bead, 21 ohm @ 100 MHz, 6 A, 0805	0805
28	L3	1	10uH	CMLB13ST-100MS	Cymtec	Power Choke Coil 10uH 20% 9A 22mOhm	SMT2, 13MM45, 12M m6
29	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 x 0.200 inch SO-8
30	O1, O2, O3, O4	4		SIR880BDP-T1-RE3	Vishay	N-Channel 80 V 18.6A (Ta), 70.6A (Tc) 5W (Ta), 71.4W (Tc) Surface Mount PowerPAK® SO-8	0402
31	R2, R8, R9, R10, R11, R32	6	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
32	R6	1	100k	RMCF0402F1100K	Stackpole Electronics Inc	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
33	R12, R13	2	3.3k	CRCW0402330JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
34	R22, R23, R24, R74	4	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R29, R31	2	5m	WSL25125L00FEA	Vishay	Res Metal Strip 2512 0.005 Ohm 1% 1W 110ppm/C Molded SMD SMD Embossed Plastic T/R	2512
36	R33, R34, R36, R37	4	10	CRCW060310R0FKEB	Vishay	RES Thick Film, 10Ω, 1%, 0.1W, 100ppm°C, 0603	0603
37	R36, R38, R44, R45, R50, R51, R55, R56, R58	9	0	CRCW06030000Z0EA	Vishay	Thick Film Resistors - SMD 1/10watt ZEROohm Jumper	0603
38	R39	1	30.1k	RT0603BR0730K1L	Yageo America	RES, 30.1 k, 0.1%, 0.1 W, 0603	0603
39	R40	1	1.1	CRCW06031R10JNEA	Vishay-Dale	RES, 1.1, 5%, 0.1 W, 0603	0603
40	R41	1	249k	ER-JPB6B2493V	Panasonic	Thick Film Resistors - SMD 0805 Anti-Surge Res. 0.1%, 249Kohm	0805
41	R42, R43	2	3.3	CRCW112103R30FKEAHP	Vishay-Dale	RES, 3.30, 1%, 0.75 W, AEC-Q200 Grade 0, 1210	1210
42	R46	1	1.00Meg	CRCW08051M00FKEAC	Vishay / Dale	Thick Film Resistors - SMD 1/8Watt 1Mohms 1% Commercial Use	0805
43	R47	1	24.9k	RT0603BR0724K9L	Yageo America	RES, 24.9 k, 0.1%, 0.1 W, 0603	0603
44	R48	1	294k	RC0603FR-07294KL	Yageo	RES, 294 k, 1%, 0.1 W, 0603	0603
45	R49, R64, R68	3	0	CRCW08050000Z0EA	Vishay	Thick Film Resistors - SMD 1/8watt ZEROohm Jumper	0805
46	R52	1	64.9k	RC0603FR-0764K9L	Yageo	RES, 64.9 k, 1%, 0.1 W, 0603	0603
47	R53	1	15.2k	RT0603BR0715K2L	Yageo America	RES, 15.2 k, 0.1%, 0.1 W, 0603	0603
48	R54	1	2.49k	RC0603FR-0724K9L	Yageo	RES, 2.49 k, 1%, 0.1 W, 0603	0603
49	R57	1	5.23k	RC0603FR-075K23L	Yageo	RES, 5.23 k, 1%, 0.1 W, 0603	0603
50	R60	1	10.1k	M56342E12B10B1T	TT Electronics/IRC	RES, 10.1 k, 0.1%, 0.1 W, 0603	0603
51	R61	1	3.01k	CRCW060330K0FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, 0603	0603
52	R62	1	30.1k	RC0603FR-0730K1L	Yageo	RES, 30.1 k, 1%, 0.1 W, 0603	0603
53	R63	1	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
54	R67	1	1.1	CRCW04021R10FKED	Vishay-Dale	RES, 1.10, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
55	R69, R70, R71, R73	4	10.5k	RC0402FR-0710K5L	Yageo America	RES, 10.5 k, 1%, 0.063 W, 0402	0402
56	R111	1	10.0k	M56342K12B10E0T	TT Electronics/IRC	RES, 10.0 k, 1%, 0.1 W, 0603	0603
57	U1	1		TPS25751DR1EFR	Texas Instruments	USB Type-C and USB PD Controller with Integrated Power Switches Optimized for Power Applications	WQFN38
58	U2	1		TVS220DRVR	Texas Instruments	12-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
59	U6	1		BQ25766RRVT	Texas Instruments	BQ25766RRVT	WQFN36
60	U8	1		CAT24C512WI-GT3	ON Semi	EEPROM Memory IC 512Kb (64K x 8) PC 1MHz 900ns 8-SOIC	SOIC8
61	C7	0	0.1uF	0603Y104JAT2A	AVX	CAP. CERM. 0.1 uF, 16 V, +/- 5%, X7R, 0603	0603
62	C16	0	2.2uF	GRM21BR71A222KA01L	MuRata	CAP. CERM. 2.2 uF, 10 V, +/- 10%, X7R, 0805	0805
63	C17	0	0.47uF	GRM156R60J474KE19D	MuRata	CAP. CERM. 0.47 uF, 6.3 V, +/- 10%, X5R, 0402	0402
64	C18	0	1uF	C0603C105K8PACTU	Kemet	CAP. CERM. 1 uF, 10 V, +/- 10%, X5R, 0603	0603
65	C19, C21, C22	0	47uF	GRM32ER61C478KE15L	MuRata	CAP. CERM. 47 uF, 16 V, +/- 10%, X5R, 1210	1210
66	C23, C26	0	4.7uF	GRM32ER61C478KE15L	MuRata	CAP. CERM. 4.7 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
67	C24	0	1uF	C2012X7S2A105K125AB	TDK	CAP. CERM. 1 uF, 100 V, +/- 10%, X7S, 0805	0805
68	C25	0	2.2uF	CGA3E3X5R1A22K080AB	TDK	CAP. CERM. 2.2 uF, 10 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0603	0603
69	C71	0	0.47uF	GRM21BR72A474KE19D	MuRata	CAP. CERM. 0.47 uF, 100 V, +/- 10%, X7R, 0805	0805
70	C72	0	47uF	GRM32ER61C478KE15L	TDK	CAP. CERM. 47 uF, 50 V, +/- 10%, X7R, 0603	0603
71	C73	0	0.012uF	GRM188R71C123KA01D	MuRata	CAP. CERM. 0.012 uF, 16 V, +/- 10%, X7R, 0603	0603
72	C74	0	12pF	C0603C120J5GACTU	Kemet	CAP. CERM. 12 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
73	D3	0	9.1V	BZT52C9V1T-7	Diodes Inc.	Diode, Zener, 9.1 V, 300 mW, SOD-523	SOD-523
74	J11	0		TSV104-04-07-G-S	Samtec	Header, 100mil, 4x1, Gold, TH	4x1 Header
75	J4	0		90120-0122	Molex	Header, 100mil, 2x1, Tin, TH	Header 2x1
76	L6	0	4.7uH	XAL5030-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 uH, 5.9 A, 0.04 ohm, AEC-Q200 Grade 1, SMD	5.3x31.5x5mm
77	R3, R4	0	3.3k	CRCW0402330JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
78	R5, R17, R21, R27, R77	0	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
79	R16, R59, R72	0	0	CRCW06030000Z0EA	Vishay	Thick Film Resistors - SMD 1/10watt ZEROohm Jumper	0603
80	R19	0	3.3	RC0603FR-0733K9L	Yageo America	RES, 3.3 k, 5%, 0.125 W, 0805	0805
81	R20	0	78.7k	RC0603FR-0778K7L	Yageo	RES, 78.7 k, 1%, 0.1 W, 0603	0603
82	R26	0	24.9k	RC0603FR-0724K9L	Yageo	RES, 24.9 k, 1%, 0.1 W, 0603	0603
83	R28	0	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
84	R75	0	7.50k	RC0603FR-0775K9L	Yageo America	RES, 7.50 k, 1%, 0.25 W, 1206	1206
85	U5	0		LM76003RNPFR	Texas Instruments	SIMPLE SWITCHER 3.5V to 60V 3.5A Synchronous Step-Down Voltage Regulator, RNP030B (WQFN-30)	RNP030B
86	U6	0		TPS76330DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 3.3 V Output, 2.7 to 10 V Input, with Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sn/Bi)	DBV0005A

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