

PMP41062 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		PMP41062	Any	Printed Circuit Board	
2	C1, C8, C9	3	10uF	CL05A106MP5N1NC	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	0402
3	C2	1	4.7uF	GRM21BR61H475K51L	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X5R, 0805	0805
4	C3, C4, C5, C6	4	0.01uF	CD0402C103J5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	0402
5	C7	1	0.1uF	0603YV104JAT2A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0603	0603
6	C10, C11	2	330pF	CGA1A2X7R1H331K030BA	TDK	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0201	0201
7	C12, C13, C20, C70	4	10uF	CL31B106KBHNNNE	Samsung	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1206	1206
8	C14	1	0.1uF	GCM18BR71H104KA57D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
9	C15	1	0.1uF	GMK105BJ104KV-F	Taiyo Yuden	CAP, CERM, 0.1 uF, 35 V, +/- 10%, X5R, 0402	0402
10	C16	1	2.2uF	C3216X7S2A225K160AB	TDK	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7S, 1206	1206
11	C17	1	0.1uF	GRM155R62A104KE14D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X5R, 0402	0402
12	C18	1	1uF	0402YD106KAT2A	AVX	CAPACITOR, X5R, 0402, 16V, 1uF	0402
13	C19	1	10pF	C0402C100K3GACTU	Kemet	CAP, CERM, 10 pF, 10 V, +/- 2.5%, COG/NP0, 0402	0402
14	C21, C22	2	22uF	CL10A226MP5N1NE	Samsung Electro-Mechanics	CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0603	0603
15	C24	1	1uF	C2012X7S2A105K125AB	TDK	CAP, CERM, 1 uF, 100 V, +/- 10%, X7S, 0805	0805
16	C25	1	2.2uF	CGA3E3X5R1A225K080AB	TDK	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0603	0603
17	C27, C28	2	0.47uF	0805C474K4RACTU	Kemet	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, 0603	0603
18	C29, C48, C51	3	4.7uF	GCJ32CJ22475K0E01L	Murata	4.7uF +/-10% 100V Ceramic Capacitor X7S 1210 (3225 Metric)	1210
19	C30, C31, C32, C33, C37, C40, C43, C57, C64, C68	10	0.1uF	HKM107B7104KAHT	Taiyo Yuden	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
20	C34	1	100pF	GCM1885C2A101JA16D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, COG/NP0, AEC-Q200 Grade 1, 0603	0603
21	C35, C36	2	33pF	06031A330JAT2A	AVX	CAP, CERM, 33 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
22	C38, C39	2	0.1uF	06033C104KA72A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
23	C41, C54, C60, C63, C69	5	1uF	0605T105K4Z2A	AVX	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
24	C42, C47	2	4.7uF	CGA4J1X7R1E475K125AE	TDK Corporation	Cap Ceramic 4.7uF 25V X7R 10% Pad SMD 0805 +125°C Automotive T/R	0805
25	C44, C49, C51, C67	4		PCR1J101MCL1GS	Nichicon	100uF 63V Polymer ALUM Electrolytic Capacitor, CR Series 4000h 10.3x10.3x12.6mm	SMD_RADIAL
26	C53, C59	2	10uF	C3225X7R2A106K250AC	TDK	10 uF +/-10% 100V Ceramic Capacitor X7R 1210 (3225 Metric)	1210
27	C56	1	100pF	CGA3E2C0G2A101J060AA	TDK	Multilayer Ceramic Capacitors MLCG - SMD/SMT CGA 0603 100V 100pF COG 5% AEC-Q200	0603
28	C58, C62	2	56uF	EEH2C1J560P	Panasonic	CAP, Polymer Hybrid, 56 uF, 63 V, +/- 20%, 30 ohm, 10x10 SMD	10x10
29	D1, D2	2	5V	CDSOD323-105C	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
30	D3	1	9.1V	BZT52C9V1T-7	Diodes Inc.	Diode, Zener, 9.1 V, 300 mW, SOD-523	SOD-523
31	D4, D5	2		V1FM10-M3/H	Vishay	Diode Schottky 1A Surface Mount DO-219AB (SMF)	DO-219AB
32	J2	1		DX075024JJ2R1300	JAE Electronics	Receptacle, USB 3.1 Type C, R/A, Gold, SMT	Receptacle, USB 3.1 Type C, R/A, SMT
33	J3	1		OSTTE030161	On-Shore Technology	Terminal Block, 3.5mm, 3x1, Tin, R/A, TH	Terminal Block, 3.5mm, 3x1, TH
34	J4	1		90120-0122	Molex	Header, 100mil, 2x1, Tin, TH	Header 2x1
35	J6	1		PEC05DAAN	Sullins Connector Solutions	Header, 100mil, 5x2, Tin, TH	Header, 5x2, 100mil, Tin
36	JP1	1		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
37	L1	1	21 ohm	FBMJ2125HM210NT	Taiyo Yuden	Ferrite Bead, 21 ohm @ 100 MHz, 6 A, 0805	0805
38	L3	1	10uH	CMLB135T-100MS	Cyntec	Power Choke Coil 10uH 20% 9A 22mOhm	SMT2_13MM45_12M m6
39	LBL1	1		THF-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
40	Q1, Q2, Q3, Q4	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	SO-8
41	R1, R6	2	100k	RMCF0402FT100K	Stackpole Electronics Inc	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
42	R2, R8, R9, R10, R11, R21, R25, R27, R30, R32, R77	11	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
43	R3, R4, R12, R13	4	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
44	R5	1	40.2k	RG1608P-4022-B-T5	Susemu Co Ltd	RES, 40.2 k, 0.1%, 0.1 W, 0603	0603
45	R7, R14, R15, R22, R23, R24, R74	7	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
46	R16, R35, R38, R44, R45, R50, R51, R55, R56, R58, R59, R72	12	0	CRCW06030000Z0EA	Vishay	Thick Film Resistors - SMD 1/10watt ZEROohm Jumper	0603
47	R17	1	19.6k	CRCW040219K6FKED	Vishay-Dale	RES, 19.6 k, 1%, 0.063 W, 0402	0402
48	R18	1	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
49	R19	1	3.3	RC0805JR-073R3L	Yageo America	RES, 3.3, 5%, 0.125 W, 0805	0805
50	R29, R31	2	5m	WSL2512S1000FEA	Vishay	Res Metal Strip 2512 0.005 Ohm 1% 1W 110ppm/C Molded SMD SMD Embossed Plastic T/R	2512
51	R33, R34, R36, R37	4	10	CRCW060310R0FKEB	Vishay	RES Thick Film, 10Ω, 1%, 0.1W, 100ppm/°C, 0603	0603
52	R39	1	30.1k	RT0603BRD0730K1L	Yageo America	RES, 30.1 k, 0.1%, 0.1 W, 0603	0603
53	R40	1	1.1	CRCW06031R10JNEA	Vishay-Dale	RES, 1.1, 5%, 0.1 W, 0603	0603
54	R41	1	249k	ERJ-PB82493V	Panasonic	Thick Film Resistors - SMD 0805 Anti-Surge Res. 0.1%, 249kOhm	0805
55	R42, R43	2	3.3	CRCW12103R30FKEAHP	Vishay-Dale	RES, 3.30, 1%, 0.75 W, AEC-Q200 Grade 0, 1210	1210
56	R46	1	1.00Meg	CRCW08051M00FKEAC	Vishay / Dale	Thick Film Resistors - SMD 1/8Watt 1Mohms 1% Commercial Use	0805
57	R47	1	24.9k	RT0603BRD0724K9L	Yageo America	RES, 24.9 k, 0.1%, 0.1 W, 0603	0603
58	R48	1	294k	RC0603FR-07294KL	Yageo	RES, 294 k, 1%, 0.1 W, 0603	0603
59	R49, R64, R68	3	0	CRCW06030000Z0EA	Vishay	Thick Film Resistors - SMD 1/10watt ZEROohm Jumper	0603
60	R52	1	64.9k	RC0603FR-0764K9L	Yageo	RES, 64.9 k, 1%, 0.1 W, 0603	0603
61	R53	1	11.4k	RT0603BRD0711K4L	Yageo America	RES, 11.4 k, 0.1%, 0.1 W, 0603	0603
62	R54	1	2.49k	RC0603FR-0724K9L	Yageo	RES, 2.49 k, 1%, 0.1 W, 0603	0603
63	R57	1	5.23k	RC0603FR-075K23L	Yageo	RES, 5.23 k, 1%, 0.1 W, 0603	0603
64	R60	1	10.1k	MS5342E12B10B1T	TI Electronics/IRC	RES, 10.1 k, 0.1%, 0.1 W, 0603	0603
65	R61	1	3.01k	CRCW0603301FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, 0603	0603
66	R62	1	30.1k	RC0603FR-0730K1L	Yageo	RES, 30.1 k, 1%, 0.1 W, 0603	0603
67	R63	1	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
68	R67	1	1.1	RC0402R110FKED	Vishay-Dale	RES, 1.10, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
69	R69, R70, R71, R73	4	10.5k	RC0402FR-0710K5L	Yageo America	RES, 10.5 k, 1%, 0.063 W, 0402	0402
70	R75	1	7.50k	RC1206FR-077K5L	Yageo America	RES, 7.50 k, 1%, 0.25 W, 1206	1206
71	U1	1		TPS25751DREFR	Texas Instruments	USB Type-C and USB PD Controller with Integrated Power Switches Optimized for Power Applications	WQFN38
72	U2	1		TVS2200DBVR	Texas Instruments	2x1 Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
73	U3	1		TPSM365R3RDNR	Texas Instruments	3-V to 65-V Input, 1-V to 19-V Output, 600-mA Synchronous Buck Converter Power Module in a HotRod QFN Package	QFN-FCM0D11
74	U5	1		TPS76333DBVR	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 Sb/Br)	DBV0005A
75	U6	1		BQ25768RRVT	Texas Instruments		VDFN36
76	U8	1		CAT24C512W1-GT3	ON Semi	EEPROM Memory IC 512Kb (64K x 8) 1°C 1MHz 900ns 8-SOIC	SOIC8

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