

PMP40294 REV 1.0 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C156, C157	3	0.1uF	C1005X5R1A104K050BA	TDK	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X5R, 0402	0402
2	C2, C152, C153	3	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
3	C5, C107, C108	3	0.1uF	GRM155R61C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X5R, 0402	0402
4	C6, C8	2	47uF	JMK212BJ476MG-T	Taiyo Yuden	CAP, CERM, 47 uF, 6.3 V, +/- 20%, X5R, 0805	0805
5	C9, C123, C126	3	10uF	GRM188R61E106MA73D	MuRata	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	0603
6	C10, C119, C124	3	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X5R, 0402	0402
7	C11, C12	2	0.033uF	GRM188R71H33KA61D	MuRata	CAP, CERM, 0.033 uF, 50 V, +/- 10%, X7R, 0603	0603
8	C13	1	0.47uF	GRM21BR71H474KA88L	MuRata	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R, 0805	0805
9	C14, C138, C139	3	0.047uF	GRM155R61C473KA01D	MuRata	CAP, CERM, 0.047 uF, 16 V, +/- 10%, X5R, 0402	0402
10	C106	1	3300pF	GRM155R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0402	0402
11	C114	1	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	0402
12	C115	1	1000pF	GRM155R61H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X5R, 0402	0402
13	C116, C127, C128	3	10uF	GRM21BR6YA106KE43L	MuRata	CAP, CERM, 10 uF, 35 V, +/- 10%, X5R, 0805	0805
14	C120, C136	2	56uF	EEHZA1E560P	Panasonic	CAP, Polymer Hybrid, 56 uF, 25 V, +/- 20%, 50 ohm, 6.3x5.8 SMD	6.3x5.8
15	C121, C122	2	47uF	C3216X5R1E476M160AC	TDK	CAP, CERM, 47 uF, 25 V, +/- 20%, X5R, 1206 190	1206 190
16	C125	1	1uF	GRM155R61E109KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0402	0402
17	C132, C135	2	22uF	C3216X5R1V226M160AC	TDK	CAP, CERM, 22 uF, 35 V, +/- 20%, X5R, 1206 190	1206 190
18	C137	1	1uF	C1005X5R1C105K050BC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0402	0402
19	C140	1	33pF	GRM1555C1H30JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
20	C142	1	15pF	GRM1555C1H150JA01D	MuRata	CAP, CERM, 15 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
21	C143	1	1800pF	GRM155R71H182KA01D	MuRata	CAP, CERM, 1800 pF, 50 V, +/- 10%, X7R, 0402	0402
22	C144	1	680pF	GRM1555C1H681JA01D	MuRata	CAP, CERM, 680 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
23	C151	1	2.2uF	C1005X5R1C225K050BC	TDK	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X5R, 0402	0402
24	C158	1	4.7uF	C1005X5R0J475M050BC	TDK	CAP, CERM, 4.7 uF, 6.3 V, +/- 20%, X5R, 0402	0402
25	C159	1	1uF	GRM155R6YA105KE11D	MuRata	CAP, CERM, 1 uF, 35 V, +/- 10%, X5R, 0402	0402
26	C160	1	1100pF	C0402C112J5GAC7867	Kemet	CAP, CERM, 1100 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
27	C161, C165	2	47pF	GRM1555C1H470FA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 1%, COG/NPO, 0402	0402
28	D1	1	30V	RBS21S30T1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, AEC-Q101, SOD-523	SOD-523
29	D2, D3	2	9.1V	BZT52C9V11T-7	Diodes Inc.	Diode, Zener, 9.1 V, 300 mW, SOD-523	SOD-523
30	D4, D5, D6	3	45V	BAS 52-02V H6327	Infineon Technologies	Diode, Schottky, 45 V, 0.75 A, SOD-523	SOD-523
31	D12, D13, D14, D15	4	Green	LTST-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
32	D16	1	Orange	LTST-C190KFKT	Lite-On	LED, Orange, SMD	1.6x0.8x0.8mm
33	J1	1		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
34	J4	1		A02-C4DXX2000	Any	Connector, Receptacle, USB Type A, R/A, SMT	Connector, Receptacle, USB Type A, R/A, SMT
35	L5	1	2.2uH	XFL4020-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 uH, 3.7 A, 0.02 ohm, SMD	4x2x4mm
36	L8	1	2.2uH	XEL6060-222MEB	Coilcraft	Inductor, Shielded, 2.2 uH, 16 A, 0.0067 ohm, AEC-Q200 Grade 1, SMD	6.36x6.56mm
37	Q1, Q2, Q11	3	-20V	CSD25404Q3	Texas Instruments	MOSFET, P-CH, -20 V, -60 A, VSON-CLIP-8	DQG0008A
38	Q6, Q6, Q7, Q8	4	30V	CSD17308Q3	Texas Instruments	MOSFET, N-CH, 30 V, 47 A, DQG0008A (VSON-CLIP-8)	DQG0008A
39	Q9	1	30V	CSD17571Q2	Texas Instruments	MOSFET, N-CH, 30 V, 7.6 A, SON 2x2mm	SON 2x2mm
40	Q12, Q13	2	-20V	CSD25483F4	Texas Instruments	MOSFET, P-CH, -20 V, -1.6 A, PICOSTAR-3	YJC0003A
41	Q14	1	45 V	BC817-16LT1G	ON Semiconductor	Transistor, NPN, 45 V, 0.5 A, SOT-23	SOT-23
42	R1, R2, R7, R9, R10, R70	6	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, 0402	0402
43	R3, R6	2	4.99	CRCW04024999FKED	Vishay-Dale	RES, 4.99, 1%, 0.063 W, 0402	0402
44	R4, R5	2	3.0Meg	CRCW04023M00JNED	Vishay-Dale	RES, 3.0 M, 5%, 0.063 W, 0402	0402
45	R8	1	1.0	CRCW04021R00JNED	Vishay-Dale	RES, 1.0, 5%, 0.063 W, 0402	0402
46	R55, R57	2	5.1k	CRCW04025K10JNED	Vishay-Dale	RES, 5.1 k, 5%, 0.063 W, 0402	0402
47	R65, R66, R95	3	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
48	R72	1	0.01	WSL0805R0100FEA18	Vishay-Dale	RES, 0.01, 1%, 0.25 W, 0805	0805
49	R73	1	0.01	WSLP1206R0100FEA	Vishay-Dale	RES, 0.01, 1%, 1 W, 1206	1206
50	R76, R77, R81	3	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
51	R78, R79, R84	3	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
52	R85, R108, R109	3	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
53	R86	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, 0402	0402
54	R87	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
55	R92	1	383k	CRCW0402383KFKED	Vishay-Dale	RES, 383 k, 1%, 0.063 W, 0402	0402
56	R93	1	53.6k	CRCW040253K6FKED	Vishay-Dale	RES, 53.6 k, 1%, 0.063 W, 0402	0402
57	R94	1	221k	CRCW0402221KFKED	Vishay-Dale	RES, 221 k, 1%, 0.063 W, 0402	0402
58	R98	1	137k	CRCW0402137KFKED	Vishay-Dale	RES, 137 k, 1%, 0.063 W, 0402	0402
59	R99	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, 0402	0402
60	R100, R101, R102, R103, R104	5	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, 0402	0402
61	R105	1	665k	CRCW0402665KFKED	Vishay-Dale	RES, 665 k, 1%, 0.063 W, 0402	0402
62	R106	1	130k	CRCW0402130KFKED	Vishay-Dale	RES, 130 k, 1%, 0.063 W, 0402	0402
63	R107	1	100k	RC1005F104CS	Samsung Electro-Mechanics	RES, 100 k, 1%, 0.063 W, 0402	0402
64	R111	1	220	CRCW0402220R0JNED	Vishay-Dale	RES, 220, 5%, 0.063 W, 0402	0402
65	R112	1	0.05	ERJ-8CVFR050V	Panasonic	RES, 0.05, 1%, 1 W, 1206	1206
66	R113	1	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, 0402	0402
67	R114, R121	2	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, 0402	0402
68	R116	1	200k	CRCW0402200KJNED	Vishay-Dale	RES, 200 k, 5%, 0.063 W, 0402	0402
69	S1	1		TDA04HDSB1	C&K Components	DIP Switch, SPST 4Pos, Slide, SMT	6.2x2.0x6.2mm
70	U4	1		BQ25703ARSN	Texas Instruments	BQ25703, RSN0032B (WQFN-32)	RSN0032B
71	U6	1		TLV62130RGTR	Texas Instruments	4-17V 3A Step-Down Converter with DCS-Control, RGT0016C	RGT0016C
72	U9	1		TPS2514ADBVR	Texas Instruments	USB Dedicated Charging Port Controller, DBV0006A	DBV0006A
73	U10	1		TPD2E1B06DRLR	Texas Instruments	DUAL CHANNEL HIGH SPEED ESD PROTECTION DEVICE, DRL0006A	DRL0006A
74	U11	1		MSP430G2955IRHA40R	Texas Instruments	MIXED SIGNAL MICROCONTROLLER, RHA0040B	RHA0040B
75	U12	1		TPS70933DRVR	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input Low-Dropout Regulator with Reverse Current Protection, DRV0006A (WSON-6)	DRV0006A
76	C130, C131	0	330pF	GRM1555C1H331JA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
77	P1	0		M22-5330405	Harwin	Header, 2mm, 4x1, Gold, Black, R/A, SMT	Header, 2mm, 4x1, R/A, SMT
78	R82, R83	0	56	CRCW060356R0JNEA	Vishay-Dale	RES, 56, 5%, 0.1 W, 0603	0603

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