

PMP40001 REV 1.0 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	47pF	GRM1555C1E470JA01D	MuRata	CAP. CERM, 47 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
2	C2, C10	2	10uF	GRM21BR6YA106KE43L	MuRata	CAP. CERM, 10 uF, 35 V, +/- 10%, X5R, 0805	0805
3	C3	1	56uF	EEH2A1E560P	Panasonic	CAP. Polymer Hybrid, 56 uF, 25 V, +/- 20%, 50 ohm, 6.3x5.8 SMD	6.3x5.8
4	C4, C28, C109	3	0.1uF	GMK105BJ104KV-F	Taiyo Yuden	CAP. CERM, 0.1 uF, 35 V, +/- 10%, X5R, 0402	0402
5	C5	1	0.22uF	GRM155R71C224KA12D	MuRata	CAP. CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	0402
6	C6, C26, C27, C53, C63	5	0.1uF	GRM155R61C104KA88D	MuRata	CAP. CERM, 0.1 uF, 16 V, +/- 10%, X5R, 0402	0402
7	C7	1	0.047uF	GRM155R61C473KA01D	MuRata	CAP. CERM, 0.047 uF, 16 V, +/- 10%, X5R, 0402	0402
8	C8, C70	2	0.22uF	C1005X5R1E22M050BC	TDK	CAP. CERM, 0.22 uF, 25 V, +/- 20%, X5R, 0402	0402
9	C9, C11	2	560pF	GRM155R71H561KA01D	MuRata	CAP. CERM, 560 pF, 50 V, +/- 10%, X7R, 0402	0402
10	C12	1	4.7uF	GRM155R61A475M	MuRata	CAP. CERM, 4.7 uF, 10 V, +/- 20%, X5R, 0402	0402
11	C13	1	1uF	GRM155R61A105KE11D	MuRata	CAP. CERM, 1 uF, 35 V, +/- 10%, X5R, 0402	0402
12	C14, C72	2	220pF	GRM155R71H221KA01D	MuRata	CAP. CERM, 220 pF, 50 V, +/- 10%, X7R, 0402	0402
13	C15	1	680pF	GRM1555C1H681JA01D	MuRata	CAP. CERM, 680 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
14	C16, C17, C18, C20, C21	5	22uF	C3216X5R1V226M160AC	TDK	CAP. CERM, 22 uF, 35 V, +/- 20%, X5R, 1206_190	1206_190
15	C19	1	22uF	C3216X5R1V226M	TDK	CAP. CERM, 22 uF, 35 V, +/- 20%, X5R, 1206_190	1206_190
16	C22	1	2200pF	GRM155R71H222KA01D	MuRata	CAP. CERM, 2200 pF, 50 V, +/- 10%, X7R, 0402	0402
17	C23	1	0.22uF	C1608X7R1H224K080AB	TDK	CAP. CERM, 0.22 uF, 50 V, +/- 10%, X7R, 0603	0603
18	C24	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP. CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
19	C25, C98	2	0.047uF	GRM155R61H473ME14D	MuRata	CAP. CERM, 0.047 uF, 50 V, +/- 20%, X5R, 0402	0402
20	C35, C36, C38	3	47uF	C3216X5R1E476M160AC	TDK	CAP. CERM, 47 uF, 25 V, +/- 20%, X5R, 1206_190	1206_190
21	C60	1	0.01uF	GRM155R71H013KA88D	MuRata	CAP. CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	0402
22	C61, C71	2	100pF	GRM1535C1H101JDD5D	MuRata	CAP. CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
23	C62	1	1uF	C1005X5R1C105K050BC	TDK	CAP. CERM, 1 uF, 16 V, +/- 10%, X5R, 0402	0402
24	C64, C108	2	0.1uF	GRM155R61E104KA87D	MuRata	CAP. CERM, 0.1 uF, 25 V, +/- 10%, X5R, 0402	0402
25	C68	1	0.047uF	GRM155R71E473KA88D	MuRata	CAP. CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0402	0402
26	C69	1	39pF	GRM1555C1H390JA01D	MuRata	CAP. CERM, 39 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
27	C74	1	0.033uF	GRM155R71A333KA01D	MuRata	CAP. CERM, 0.033 uF, 10 V, +/- 10%, X7R, 0402	0402
28	C113	1	100uF	EEH2C1E101XP	Panasonic	CAP. Polymer Hybrid, 100 uF, 25 V, +/- 20%, 30 ohm, 6.3x7.7 SMD	6.3x7.7
29	D2, D17, D18	3	30V	MSS1P3L-M3/89A	Vishay-Semiconductor	Diode, Schottky, 30 V, 1 A, AEC-Q101, MicroSMP	MicroSMP
30	D3, D4, D10	3	45V	BAS 52-02V H6327	Infineon Technologies	Diode, Schottky, 45 V, 0.75 A, SOD-523	SOD-523
31	D5	1	10V	BZX585-B10,115	NXP Semiconductor	Diode, Zener, 10 V, 300 mW, SOD-523	SOD-523
32	D6	1	5.1V	BZX585-C5V1,115	NXP Semiconductor	Diode, Zener, 5.1 V, 300 mW, SOD-523	SOD-523
33	D19, D20	2	100V	BAS516,115	NXP Semiconductor	Diode, Switching, 100 V, 0.25 A, SOD-523	SOD-523
34	J1	1		UT12113-11602-7H	Foxconn	Connector, Receptacle, USB TYPE C, R/A, SMT	Connector, Receptacle, USB TYPE C, R/A, SMT
35	L2	1	3.3uH	IHL P5050FDER3R3M01	Vishay-Dale	Inductor, Shielded Drum Core, Powdered Iron, 3.3 uH, 18 A, 0.0057 ohm, SMD	IHL P5050FD
36	Q1, Q2	2	30V	CSD17483F4T	Texas Instruments	MOSFET, N-CH, 30 V, 1.5 A, YJCO003A	YJCO003A
37	Q3, Q4, Q10	3	30V	CSD17578Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 14 A, SON 3.3x3.3mm	SON 3.3x3.3mm
38	Q5	1	30V	CSD17309Q3	Texas Instruments	MOSFET, N-CH, 30 V, 60 A, SON 3.3x3.3mm	SON 3.3x3.3mm
39	Q6	1	-50V	BSS84W-7-F	Diodes Inc	MOSFET, P-CH, -50 V, -0.13 A, SOT-323	SOT-323
40	Q7	1	40 V	MMBT3904TT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-416	SOT-416
41	Q8, Q9	2	25V	CSD16323Q3	Texas Instruments	MOSFET, N-CH, 25 V, 60 A, SON 3.3x3.3mm	SON 3.3x3.3mm
42	R1	1	39k	CRCW040239K0JNED	Vishay-Dale	RES, 39 k, 5%, 0.063 W, 0402	0402
43	R2	1	0.005	W5L08055L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.25 W, 0805	0805
44	R3, R8, R88, R75	4	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
45	R4	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
46	R5	1	130k	CRCW0402130KFKED	Vishay-Dale	RES, 130 k, 1%, 0.063 W, 0402	0402
47	R6	1	143k	CRCW0402143KFKED	Vishay-Dale	RES, 143 k, 1%, 0.063 W, 0402	0402
48	R7	1	510	CRCW0603510RJNEA	Vishay-Dale	RES, 510, 5%, 0.1 W, 0603	0603
49	R9	1	34.8k	CRCW0402348KFKED	Vishay-Dale	RES, 34.8 k, 1%, 0.063 W, 0402	0402
50	R10	1	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
51	R11, R15	2	105k	CRCW0402105KFKED	Vishay-Dale	RES, 105 k, 1%, 0.063 W, 0402	0402
52	R12, R25	2	221k	CRCW0402221KFKED	Vishay-Dale	RES, 221 k, 1%, 0.063 W, 0402	0402
53	R13	1	5.1Meg	CRCW040251M0JNED	Vishay-Dale	RES, 5.1 M, 5%, 0.063 W, 0402	0402
54	R14	1	309k	CRCW0402309KFKED	Vishay-Dale	RES, 309 k, 1%, 0.063 W, 0402	0402
55	R16, R26	2	10	CRCW060310R0JNEAHP	Vishay-Dale	RES, 10, 5%, 0.25 W, 0603	0603
56	R17, R18, R33, R34	4	0	CRCW04020000ZDED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
57	R19	1	3.0Meg	CRCW04023M00JNED	Vishay-Dale	RES, 3.0 M, 5%, 0.063 W, 0402	0402
58	R20	1	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, 0402	0402
59	R22	1	120	CRCW0603120R0JNEA	Vishay-Dale	RES, 120, 5%, 0.1 W, 0603	0603
60	R23, R24	2	100	CRCW0402100R0JNED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
61	R29	1	0.005	W5L08055L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.5 W, 0805	0805
62	R62	1	267k	CRCW0402267KFKED	Vishay-Dale	RES, 267 k, 1%, 0.063 W, 0402	0402
63	R65	1	30.9k	CRCW0402309KFKED	Vishay-Dale	RES, 30.9 k, 1%, 0.063 W, 0402	0402
64	R66	1	26.7k	CRCW0402267KFKED	Vishay-Dale	RES, 26.7 k, 1%, 0.063 W, 0402	0402
65	R67	1	48.7k	CRCW0402487KFKED	Vishay-Dale	RES, 48.7 k, 1%, 0.063 W, 0402	0402
66	R69, R98, R99, R100	4	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
67	R71	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
68	R73	1	64.9k	CRCW0402649KFKED	Vishay-Dale	RES, 64.9 k, 1%, 0.063 W, 0402	0402
69	R76	1	1.50k	CRCW04021K50FKED	Vishay-Dale	RES, 1.50 k, 1%, 0.063 W, 0402	0402
70	U1	1		TPD2E1B06DRLR	Texas Instruments	DUAL CHANNEL HIGH SPEED ESD PROTECTION DEVICE, DRL0006A	DRL0006A
71	U2	1		TL3311DBVR	Texas Instruments	SINGLE DIFFERENTIAL COMPARATOR, DBV0005A	DBV0005A
72	U3	1		TPS25740RGE	Texas Instruments	USB Power Delivery (PD) Provider-Only and Type-C Downward Facing Port (DFP) Port Controller, RGE0024F	RGE0024F
73	U4	1		TPS2514ADBVR	Texas Instruments	USB Dedicated Charging Port Controller, DBV0006A	DBV0006A
74	U5	1		TLV70450DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 5 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
75	U7	1		LM5175RHFR	Texas Instruments	42-V Wide VIN Synchronous 4-Switch Buck-Boost Controller, RHF0028A	RHF0028A

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