

PMP11536 REV 1.0 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	0.047uF	C1005X7R1C473K	TDK	CAP, CERM, 0.047 uF, 16 V, +/- 10%, X7R, 0402	0402
2	C2, C3, C4, C18, C19, C20, C21, C23, C28	9	0.1uF	GRM155R61C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X5R, 0402	0402
3	C5, C25, C27	3	22uF	C2012X5R1C226K125AC	TDK	CAP, CERM, 22 uF, 16 V, +/- 10%, X5R, 0805	0805
4	C6, C9, C11, C14	4	10uF	C0603C106M9PACTU	Kemet	CAP, CERM, 10 uF, 6.3 V, +/- 20%, X5R, 0603	0603
5	C7, C8, C12, C13, C34, C37	6	47uF	JMK212BJ476MG-T	Taiyo Yuden	CAP, CERM, 47 uF, 6.3 V, +/- 20%, X5R, 0805	0805
6	C10, C24	2	4.7uF	C1005X5R0J475M050BC	TDK	CAP, CERM, 4.7 uF, 6.3 V, +/- 20%, X5R, 0402	0402
7	C15	1	100pF	GRM1535C1H101JDD5D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
8	C16	1	22uF	C1608X5R0J226M080AC	TDK	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X5R, 0603	0603
9	C17	1	1uF	C1005X5R1C105K050BC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0402	0402
10	C22	1	1000pF	C1005C0G1E102J	TDK	CAP, CERM, 1000 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
11	C26, C32	2	10uF	GRM188R61C106MAALD	MuRata	CAP, CERM, 10 uF, 16 V, +/- 20%, X5R, 0603 095	0603_095
12	D1	1	30V	BAT54C-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
13	D2, D3, D4, D5	4	Green	LTST-C190KGKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
14	D8, D9, D10, D11, D12, D13	6	3.3V	CDSOD323-T03SC	Bourns	Diode, TVS, Bi, 3.3 V, 400 W, SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark	SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark
15	J1	1		47346-1001	Molex	Receptacle, Micro-USB Type B, 0.65 mm, 5x1, R/A, Bottom Mount SMT	Receptacle, 0.65mm, 5x1, R/A, SMT
16	J2	1		UT12113-11602-7H	Foxconn	Connector, Receptacle, USB TYPE C, R/A, SMT	Connector, Receptacle, USB TYPE C, R/A, SMT
17	J3	1		A02-C4DXX2000	Any	Connector, Receptacle, USB Type A, R/A, SMT	Connector, Receptacle, USB Type A, R/A, SMT
18	L1	1	1uH	XAL7030-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 uH, 21.8 A, 0.00455 ohm, SMD	XAL7030
19	L2	1	2.2uH	XAL7030-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 uH, 12.9 A, 0.0137 ohm, SMD	XAL7030
20	P1	1		M22-5330405	Harwin	Header, 2mm, 4x1, Gold, Black, R/A, SMT	Header, 2mm, 4x1, R/A, SMT
21	Q1	1	-20V	CSD25310Q2	Texas Instruments	MOSFET, P-CH, -20 V, -20 A, SON 2x2mm	SON 2x2mm
22	Q2	1	40 V	MMBT3906TT1G	ON Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-416	SOT-416
23	Q3	1	30V	CSD17483F4T	Texas Instruments	MOSFET, N/P-CH, 30 V, 1.5 A,	
24	Q7, Q8	2	30V	CSD87501L	Texas Instruments	MOSFET, N-CH, 30 V, A,	
25	Q11	1	25V	CSD16301Q2	Texas Instruments	MOSFET, N-CH, 25 V, 5 A, SON 2x2mm	SON 2x2mm
26	R1, R9, R13, R14, R17, R18, R19, R20, R23, R24	10	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
27	R2, R21	2	100k	RC1005F104CS	Samsung Electro-Mechanics	RES, 100 k, 1%, 0.063 W, 0402	0402
28	R3	1	240	CRCW0402240RJNED	Vishay-Dale	RES, 240, 5%, 0.063 W, 0402	0402
29	R4	1	220	CRCW0402220RJNED	Vishay-Dale	RES, 220, 5%, 0.063 W, 0402	0402
30	R5	1	0.05	ERJ-8CWF050V	Panasonic	RES, 0.05, 1%, 1 W, 1206	1206
31	R6	1	6.19k	CRCW04026K19FKED	Vishay-Dale	RES, 6.19 k, 1%, 0.063 W, 0402	0402
32	R7	1	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
33	R8	1	5.23k	CRCW04025K23FKED	Vishay-Dale	RES, 5.23 k, 1%, 0.063 W, 0402	0402
34	R10	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, 0402	0402
35	R11	1	10k ohm	ERT-JOEG103HA	Panasonic	Thermistor NTC, 10k ohm, 3%, 0402	0402
36	R12, R16	2	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, 0402	0402
37	R15	1	5.11k	CRCW04025K11FKED	Vishay-Dale	RES, 5.11 k, 1%, 0.063 W, 0402	0402
38	R22	1	330	CRCW0402330RJNED	Vishay-Dale	RES, 330, 5%, 0.063 W, 0402	0402
39	R25	1	51k	CRCW040251K0JNED	Vishay-Dale	RES, 51 k, 5%, 0.063 W, 0402	0402
40	R26	1	2.2k	CRCW04022K20JNED	Vishay-Dale	RES, 2.2 k, 5%, 0.063 W, 0402	0402
41	R27, R29, R33, R35	4	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, 0402	0402
42	R28	1	200k	CRCW0402200KJNED	Vishay-Dale	RES, 200 k, 5%, 0.063 W, 0402	0402
43	R30, R31	2	5.1Meg	CRCW04025M10JNED	Vishay-Dale	RES, 5.1 M, 5%, 0.063 W, 0402	0402
44	R32	1	1.00Meg	CRCW04021M00FKED	Vishay-Dale	RES, 1.00 M, 1%, 0.063 W, 0402	0402
45	S1	1		EVP-ANDA1A	Panasonic	Switch, Slide, SPST-NO, Off-Mom, 0.05 A, 12V, SMD	3.5x2.9mm
46	U1	1		BQ25895RTWR	Texas Instruments	I2C Controlled 5A Single Cell Charger with NVDC Power Path Management and MaxChargeTM High Voltage Adapter Support, RTW0024H	RTW0024H
47	U2	1		TPS61235RWLR	Texas Instruments	7-A Synchronous Boost Converter with Programmable Output Current Limit, RWL0009A	RWL0009A
48	U3	1		TPS25810RVC	Texas Instruments	USB Type-C DFP Controller and Power Switch with Load Detection, RVC0020A	RVC0020A
49	U4	1		TL431AIDCKRA	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 6-pin SC70 (DCK), Green (RoHS & no Sb/Br)	DCK0006A
50	U5, U9	2		TPS2514ADBV	Texas Instruments	USB Dedicated Charging Port Controller, DBV0006A	DBV0006A
51	U6	1		MSP430G2332IPW20R	Texas Instruments	16 MHz Mixed Signal Microcontroller with 4 KB Flash, 256 B SRAM and 16 GPIOs, 20-pin SOP (PW), Green (RoHS & no Sb/Br)	PW0020A
52	U7	1		BQ29700DSER	Texas Instruments	Cost-Effective Voltage and Current Protection Integrated Circuit for Single-Cell Li-Ion/Li-Polymer Batteries, DSE0006A	DSE0006A
53	U8	1		TLV70430DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 3 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

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