TEXAS INSTRUMENTS

PMP4496 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 µF, 16 V, +/- 10%, X7R, 0402	0402
2	C2, C14, C17, C18, C22, C24, C25, C26	8	0.1uF	GRM155R61C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X5R, 0402	0402
3	C3	1	10uF	C1608X5R1E106M080AC	TDK	CAP, CERM, 10 µF, 25 V, +/- 20%, X5R, 0603	0603
4	C4, C7, C9, C10	4	10uF	C0603C106M9PACTU	Kemet	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603	0603
5	C5, C6, C11, C12	4	47uF	JMK212BJ476MG-T	Taiyo Yuden	CAP, CERM, 47 µF, 6.3 V, +/- 20%, X5R, 0805	0805
6	C8, C15	2	4.7uF	C1005X5R0J475M050BC	TDK	CAP, CERM, 4.7 µF, 6.3 V, +/- 20%, X5R, 0402	0402
7	C13	1	0.01uF	GRM155R60J103KA01D	MuRata	CAP, CERM, 0.01 µF, 6.3 V, +/- 10%, X5R, 0402	0402
8	C16	1	1uF	C1005X5R1C105K050BC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0402	0402
9	C21	1	100pF	GRM1535C1H101JDD5D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
10	C23	1	1000pF	C1005C0G1E102J	TDK	CAP, CERM, 1000 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
11	D1, D2	2	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
12	D3	1	30V	BAT54C-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
13	D4, D5, D6, D7	4	Green	LTST-C190KGKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
14	J1	1		UT12113-11602-7H	Foxconn	Connector, Receptacle, USB TYPE C, R/A, SMT	Connector, Receptacle, USB TYPE C, R/A, SMT
15	L1	1	1uH	XAL7030-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 µH, 21.8 A, 0.00455 ohm, SMD	XAL7030
16	L2	1	2.2uH	XAL7030-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 µH, 12.9 A, 0.0137 ohm, SMD	XAL7030
17	P1	1		M22-5330405	Harwin	Header, 2mm, 4x1, Gold, Black, R/A, SMT	Header, 2mm, 4x1, R/A, SMT
18	Q1, Q2	2	-20V	CSD25310Q2	Texas Instruments	MOSFET, P-CH, -20 V, -20 A, SON 2x2mm	SON 2x2mm
19	Q3	1	40 V	MMBT3906TT1G	ON Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-416	SOT-416
20	Q4	1	30V	CSD17483F4T	Texas Instruments	MOSFET, N/P-CH, 30 V, 1.5 A,	
21	Q5	1	V	CSD83325L	Texas Instruments	MOSFET, N-CH, V, A, YJE0006A	YJE0006A
22	R1	1	110	CRCW0402110RFKED	Vishay-Dale	RES, 110, 1%, 0.063 W, 0402	0402
23	R2	1	41.2k	CRCW040241K2FKED	Vishay-Dale	RES, 41.2 k, 1%, 0.063 W, 0402	0402
24	R3	1	5.23k	CRCW04025K23FKED	Vishay-Dale	RES, 5.23 k, 1%, 0.063 W, 0402	0402
25	R4	1	1.00Meg	CRCW04021M00FKED	Vishay-Dale	RES, 1.00 M, 1%, 0.063 W, 0402	0402
26	R5	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, 0402	0402
27	R6	1	10k ohm	ERT-J0EG103HA	Panasonic	Thermistor NTC, 10k ohm, 3%, 0402	0402
28	R7, R11, R12, R13, R14, R16, R22, R26, R32	9	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
29	R8, R17	2	51k	CRCW040251K0JNED	Vishay-Dale	RES, 51 k, 5%, 0.063 W, 0402	0402
30	R9	1	6.19k	CRCW04026K19FKED	Vishay-Dale	RES, 6.19 k, 1%, 0.063 W, 0402	0402
31	R10	1	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
32	R15	1	5.11k	CRCW04025K11FKED	Vishay-Dale	RES, 5.11 k, 1%, 0.063 W, 0402	0402
33	R18, R20, R23, R28	4	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, 0402	0402
34	R19	1	330	CRCW0402330RJNED	Vishay-Dale	RES, 330, 5%, 0.063 W, 0402	0402
35	R21, R27, R31	3	200k	CRCW0402200KJNED	Vishay-Dale	RES, 200 k, 5%, 0.063 W, 0402	0402
36	R24	1	2.2k	CRCW04022K20JNED	Vishay-Dale	RES, 2.2 k, 5%, 0.063 W, 0402	0402
37	R25	1	910k	CRCW0402910KJNED	Vishay-Dale	RES, 910 k, 5%, 0.063 W, 0402	0402
38	R29, R30	2	5.1Meg	CRCW04025M10JNED	Vishay-Dale	RES, 5.1 M, 5%, 0.063 W, 0402	0402
39	S1	1		EVP-ANDA1A	Panasonic	Switch, Slide, SPST-NO, Off-Mom, 0.05 A, 12V, SMD	3.5x2.9mm
40	U1	1		BQ25895RTWR	Texas Instruments	I2C Controlled 5A Single Cell Charger with NVDC Power Path Management and MaxChargeTM High Voltage Adapter Support, RTW0024H	RTW0024H
41	U2	1		TPS61235RWLR	Texas Instruments	7-A Synchronous Boost Converter with Programmable Output Current Limit, RWL0009A	RWL0009A
42	U3	1		TPS2514ADBV	Texas Instruments	USB Dedicated Charging Port Controller, DBV0006A	DBV0006A
43	U4	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
44	U5	1		TS3USB221RSER	Texas Instruments	High-Speed USB 2.0 (480 Mbps) 1:2 Multiplexer / Demultiplexer Switch with Single Enable, 6 ohm RON, 2.5 to 3.3V, -40 to 85 degC, 10-Pin UQFN (RSE), Green (RoHS & no Sb/Br)	RSE0010A
45	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
46	U8	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
47	U9	1		BQ29700DSER	Texas Instruments	Cost-Effective Voltage and Current Protection Integrated Circuit for Single-Cell Li-Ion/Li-Polymer Batteries, DSE0006A	DSE0006A
48	U10	1		TUSB320LIRWBR	Texas Instruments	USB Type-C Configuration Channel Logic and Port Control, RWB0012A	RWB0012A

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