

PMP23496 REV -1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC81	1		PMP23496	Any	Printed Circuit Board	
2	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10	10	1uF	C2012X7S2A105K125AB	TDK	CAP, CERM, 1 uF, 100 V, +/- 10%, X7S, 0805	0805
3	C11	1	0.1uF	GRM155R71C104JA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0402	0402
4	C12, C13	2	1000pF	C0402C102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	0402
5	C14	1	0.1uF	GRM188R72A104KA35J	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	0603
6	C15, C16, C17, C18, C22, C23, C24, C25, C28, C29, C30, C31	12		GRM32EC72A106KE05L	Murata	10uF ±10% 100V Ceramic Capacitor X7S 1210 (3225 Metric)	1210
7	C19	1	47nF	C0805C473K2RAC7800	Kemet	CAP, CERM, 47nF, 200V, X7R, 10%, 0805	0805
8	C20, C21	2		CL10B105KA8NNC	Samsung	CAP, 1uF, 25V, ±10%, X7R, 0603	0603
9	C26	1	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
10	C27	1	0.01uF	8.85012E+11	Würth Elektronik	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
11	D1, D2, D3	3		8.0SMDJ60A	Littelfuse	TVS Diode, 8.0SMDJ Series, Unidirectional, 60 V, 125.1 V, DO-214AB (SMC), 2 Pins	DO-214AB
12	D4, D5, D6	3	100V	FSV20100V	Fairchild Semiconductor	Diode, Schottky, 100 V, 20 A, AEC-Q101, TO-277A	TO-277A
13	D7	1	100V	V3PM10-M3/H	Vishay	Diode, Schottky, 100V, 2.1A, SMP (DO-220AA)	SMP (DO-220AA)
14	D8	1	100V	BAV16W-7-F	Diodes Inc.	Diode, Standard General Purpose, 100V, 150mA, SOD-123	SOD-123
15	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
16	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5" L #4-40 Nylon	Standoff
17	J1	1		TSW-105-08-G-D-RA	Samtec	Header, 100mil, 5x2, Gold, R/A, TH	Header, 5x2, 100mil, R/A
18	LBL1	1		THT-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
19	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9	9		PSMN2R3-100SSEJ	Nexperia	MOSFET N-Channel 100 V 255A (Ta) 341W (Ta) Surface Mount LFPK88 (SOT1235)	LFPK88
20	Q10	1	150 V	MMBT5401LT1G	ON Semiconductor	Transistor, PNP, 150 V, 0.5 A, SOT-23	SOT-23
21	Q11	1	40 V	MMBT3904WT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-323	SOT-323
22	Q12	1	-45V	BC807-40QB-QZ	Nexperia	Bipolar (BJT) Transistor PNP 45 V 500 mA 80MHz 350 mW Surface Mount, Wetttable Flank DFN1110D-3	HXSON3
23	R1, R35, R36	3	1m	CSS2H-5930K-1L00F	Bourns	Res Metal Strip 5930 0.001 Ohm 1% 9W ±50ppm/C Pad SMD Automotive T/R	5930
24	R2, R3, R6, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48	15	1	CRCW04021R00FKED	Vishay-Dale	RES, 1.00, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
25	R4	1	47	CRCW060347R0JNEA	Vishay-Dale	RES, 47, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
26	R5	1	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
27	R7	1		RMCF0805ZT0R00	Stackpole Electronics	0 Ohms Jumper 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	0805
28	R8, R29, R30, R31	4	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
29	R9	1	95.3k	RC0603FR-0795K3L	Yageo	RES, 95.3 k, 1%, 0.1 W, 0603	0603
30	R10	1	178k	CRCW0603178KFKEA	Vishay-Dale	RES, 178 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
31	R12	1	3.32	CRCW04023R32FKED	Vishay-Dale	RES, 3.32, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
32	R13, R21	2	20	RC0603FR-0720RL	Yageo	RES, 20.0, 1%, 0.1 W, 0603	0603
33	R14, R22, R23, R24, R49	5	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
34	R16	1	3.74k	CRCW04023K74FKED	Vishay-Dale	RES, 3.74 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R17	1	12.7k	CRCW040212K7FKED	Vishay-Dale	RES, 12.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
36	R18	1	100k	CRCW0402100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
37	R19	1	100	CRCW0603100RFKEAHP	Vishay-Dale	RES, 100, 1%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
38	R25	1	28.7k	CRCW040228K7FKED	Vishay-Dale	RES, 28.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
39	R26, R27, R28	3	1k	SMF51K0JT	TE Connectivity	1 kOhms ±5% 5W Chip Resistor 5329 (13573 Metric), J-Lead Flame Retardant Coating, Safety Metal Film	5329
40	R32, R33, R34	3	100	CRCW0402100RFKEA	Vishay-Dale	RES, 100, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
41	SW1	1		KM1202A08QE	C&K Components	Pushbutton Switch SPDT Standard Through Hole, Right Angle	SW_PTH_13MM21_1 3MM72
42	T1, T2, T3, T4, T5, T6	6		CB70-14-CY	Panduit	Terminal 90A Lug	CB70-14-CY
43	TP1, TP2, TP3, TP4, TP5, TP6, TP11, TP12	8		5126	Keystone	Test Point, Multipurpose, Green, TH	Green Multipurpose Testpoint
44	TP7, TP8, TP9, TP10	4		0300-2-15-01-47-01-10-0	Mill-Max	Connector, Receptacle, Pin, TH	PCB Pin
45	TP13	1		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
46	TP14, TP15, TP16, TP17	4		D3082-05	Harwin	1mm Uninsulated Shorting Plug, 10.16mm spacing, TH	Shorting Plug, 10.16mm spacing, TH
47	U1	1		LM5066IAPWP	Texas Instruments	LM5066I/A High Voltage System Power Management and Protection IC with PMBus, PWP0028A (TSSOP-28)	PWP0028A
48	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
49	Q13	0	-45V	BC807-40LWX	Nexperia	Bipolar (BJT) Transistor PNP 45 V 500 mA 80MHz 200 mW Surface Mount SOT-323	SOT323
50	Q14	0	45 V	BC807-40LT1G	ON Semiconductor	Transistor, PNP, 45 V, 0.5 A, AEC-Q101, SOT-23	SOT-23
51	R11	0	10	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
52	R15, R20	0	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402

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