

Variant: 001
 Generated: 4/25/2022 9:25 AM
 TID #: N/A



PMP23223 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	1uF	CGA4J3X7R1H105K125AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
2	C2	1	10uF	GCJ21BR71A106KE01L	MuRata	CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
3	C3, C7, C32	3	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
4	C4	1	2.2uF	GR1188C8YA225KE13D	Murata	2.2uF +/-10% 35V Ceramic Capacitor X6S 0603 (1608 Metric)	603
5	C6	1	4.7uF	CGA4J1X7R1V475K125AC	TDK	CAP, CERM, 4.7 uF, 35 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
6	C8, C9	2	330pF	GRM188R72A331KA01D	MuRata	CAP, CERM, 330 pF, 100 V, +/- 10%, X7R, 0603	603
7	C10, C14	2	0.1uF	GCM155R71C104KA55D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	402
8	C11	1	10uF	CL31B106KBHNNNE	Samsung	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1206	1206
9	C12	1	0.1uF	C1206C104J5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 1206	1206
10	C13, C28	2	4.7uF	C3216X7R1H475K160AC	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1206	1206
11	C17	1	1.5uF	C1608X7R1A155K080AC	TDK	CAP, CERM, 1.5 uF, 10 V, +/- 10%, X7R, 0603	603
12	C18	1	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	402
13	C19	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
14	C20, C21, C22, C23, C24	5	100pF	CC0402JRNPO9BN101	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
15	C25	1	240pF	GRM1555C1H241JA01D	MuRata	CAP, CERM, 240 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
16	C26	1	220pF	GRM155R71C222KA01D	MuRata	CAP, CERM, 220 pF, 16 V, +/- 10%, X7R, 0402	402
17	C27	1	0.01uF	SR0603X7R103K1NT95(F)#M123A	Presidio Components	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	603
18	C29, C30	2	22uF	GRT21BR61E226ME13L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 20%, X5R, AEC-Q200 Grade 3, 0805	805
19	C31	1	47uF	HHXC250ARA470MF61G	Chemi-Con	CAP, AL, 47 uF, 25 V, +/- 20%, 0.05 ohm, AEC-Q200 Grade 1, SMD	D6.3xL6.1mm
20	D1, D4	2	1200V	STTH112A	STMicroelectronics	Diode, Ultrafast, 1200 V, 1 A, SMA	SMA
21	D2, D3	2	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
22	H1, H2, H3, H5	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
23	H4, H6, H7, H8	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
24	J1, J3, J4	3		HTSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	Header, 100mil, 3x1, TH
25	J2	1		802-10-008-10-001000	Mill-Max	Header, 2.54 mm, 4x2, Gold, TH	Header, 2.54 mm, 4x2, TH
26	J5	1		2011-1X02G00SB	Oupin		HDR
27	J6, J7	2		SSW-102-01-G-D	Samtec	Receptacle, 2.54mm, 2x2, Gold, TH	Receptacle, 2.54mm, 2x2, TH
28	Q1	1	40V	SI2318CDS-T1-GE3	Vishay-Siliconix	MOSFET, N-CH, 40 V, 5.6 A, SOT-23	SOT-23
29	R2	1	470	CRCW0603470RJNEA	Vishay-Dale	RES, 470, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
30	R3	1	13.2k	RT0603BRD0713K2L	Yageo America	RES, 13.2 k, 0.1%, 0.1 W, 0603	603
31	R4	1	77.7k	RT0603DRE0777K7L	Yageo America	RES, 77.7 k, 0.5%, 0.1 W, 0603	603
32	R5, R6, R8	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
33	R7	1	22.0k	ERJ-3EKF2202V	Panasonic	RES, 22.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
34	R9	1	3.3	CRCW04023R30JNED	Vishay-Dale	RES, 3.3, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
35	R10	1	10.0k	RMCF0402FT10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
36	R11, R14	2	2.2	RC1210FR-072R2L	Yageo	RES, 2.20, 1%, 0.5 W, 1210	1210
37	R13	1	6.04k	CRCW04026K04FKED	Vishay-Dale	RES, 6.04 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
38	R15, R16	2	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
39	R17	1	10.0k	PCF0402-12-10KBT1	TT Electronics/IRC	RES, 10.0 k, 0.1%, 0.063 W, 0402	402
40	R20	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
41	R22, R23	2	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	402
42	R25	1	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	402
43	R26	1	10.0k	M55342K12B10E0T	TT Electronics/IRC	RES, 10.0 k, 1%, 0.1 W, 0603	603
44	R28	1	499	CRCW0402499RFKED	Vishay-Dale	RES, 499, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
45	R31	1	20.0k	RT0603DRE0720KL	Yageo America	RES, 20.0 k, 0.5%, 0.1 W, 0603	603
46	R40	1	6.19k	CRCW06036K19FKEA	Vishay-Dale	RES, 6.19 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
47	TP1, TP3, TP17	3		5005	Keystone Electronics	Test Point, Compact, Red, TH	Red Compact Testpoint
48	TP2, TP4, TP10, TP20	4		5006	Keystone Electronics	Test Point, Compact, Black, TH	Black Compact Testpoint
49	TP5, TP6, TP8, TP11, TP12, TP13, TP15, TP16	8		0508-0-00-15-00-00-03-0	Mill-Max	PCB Pin, 20mil Dia, Gold, TH	PCB Pin, 20mil Dia, TH
50	TP7	1		5007	Keystone Electronics	Test Point, Compact, White, TH	White Compact Testpoint
51	TP9	1		5009	Keystone Electronics	Test Point, Compact, Yellow, TH	Yellow Compact Testpoint
52	TP14	1		5008	Keystone Electronics	Test Point, Compact, Orange, TH	Orange Compact Testpoint
53	U1	1		TPS7B8450QWDRBRQ1	Texas Instruments	Linear Voltage Regulator IC Positive Fixed 1 Output 150mA 8-SON (3x3)	VSON8
54	U2	1		UCC14240DWNQ1	Texas Instruments	2W, 24V-Vin, 25V-Vout, High-Efficiency, >2.5 kVRMS Isolated DC-DC Converter	SOIC36
55	U3	1		UCC21732QDWRQ1	Texas Instruments	Single Channel Isolated Gate Driver for SiC/IGBT with Advanced Protection and High-CMTI, DW0016B (SOIC-16)	DW0016B
56	C15, C16	0	10uF	CL31B106KBHNNNE	Samsung	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1206	1206
57	R1	0	2.20k	RMCF0402FT2K20	Stackpole Electronics Inc	RES, 2.20 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
58	R18	0	25.8k	RT0603DRE0725K8L	Yageo America	RES, 25.8 k, 0.5%, 0.1 W, 0603	603

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