

Variant: 001  
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PMP22063 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		PMP22063	Any	Printed Circuit Board	
2	C1, C6, C10, C11	4	4.7uF	CGA6P3X7R1H475K250AB	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
3	C2, C3	2	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
4	C4	1	47uF	EEEEFT1H470AP	Panasonic	CAP, AL, 47 uF, 50 V, +/- 20%, 0.68 ohm, AEC-Q200 Grade 2, SMD	D6.3xL5.8mm
5	C5	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	0603
6	C7	1	0.1uF	C0402C104K4RACAUTO	Kemet	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
7	C9	1	0.22uF	C1005X7R1C224K050BC	TDK	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	0402
8	C12	1	0.22uF	CGA3E3X7R1H224K080AB	TDK	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
9	C13, C14, C17, C18, C20	5	22uF	GCM31CR71A226KE02	MuRata	CAP, CERM, 22 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
10	C15	1	1uF	GCM155C71A105KE38D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
11	C16	1	22pF	CGA2B2NP01H220J050BA	TDK	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
12	C19	1	2.2uF	GCM188R70J225KE22D	MuRata	CAP, CERM, 2.2 uF, 6.3 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
13	C21	1	0.1uF	CGA2B3X7R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
14	C22	1	4.7uF	CGA4J3X7R1C475K125AE	TDK	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
15	C23	1	4700pF	CGA2B3X7S2A472K050BB	TDK	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
16	C24	1	0.047uF	CGA3E2X7R1H473K080AA	TDK	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
17	D1	1	33V	SMBJ33CA-13-F	Diodes Inc.	Diode, TVS, Bi, 33 V, SMB	SMB
18	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
19	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
20	J1, J4, J5, J7	4		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
21	J2, J3, J6	3		800-10-003-10-001000	Mill-Max	Header, 100mil, 3x1, TH	Header, 3x1, 100mil, TH
22	L1	1	2.2uH	78438356022	Würth Elektronik	Inductor, Shielded, Powdered Iron, 2.2 uH, 4.7 A, 0.035 ohm, AEC-Q200 Grade 1, SMD	4.1x4.1mm
23	L2	1	600 ohm	FBMH3225HM601NT	Taiyo Yuden	Ferrite Bead, 600 ohm @ 100 MHz, 3 A, 1210	1210
24	L3	1		XGL4020-332ME	Coilcraft	XGL4020 Series Ultra-Low Loss Shielded Power Inductors	SMD2
25	L4	1	2.2uH	XFL2006-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 uH, 0.78 A, 0.28 ohm, SMD	1.9x0.6x2mm
26	L5	1		XGL4020-102MEC	Coilcraft	Shielded Power Inductors	SMT_IND_4MM0_4M M0
27	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
28	Q1	1	60V	DMT6007LFG-13	Diodes Inc.	MOSFET, N-CH, 60 V, 15 A, AEC-Q101, 8-PowerVDFN	8-PowerVDFN
29	R2, R5, R9	3	10.0k	ERJPA2F1002X	Panasonic	RES, 10.0 k, 1%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
30	R3	1	0	CRCW04020000Z0EDHP	Vishay-Dale	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
31	R4, R8	2	100k	RMCF0402FT100K	Stackpole Electronics Inc	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
32	R6	1	80.6k	CRCW040280K6FKED	Vishay-Dale	RES, 80.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
33	R7	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
34	R10	1	8.06k	CRCW04028K06FKED	Vishay-Dale	RES, 8.06 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	TP1, TP2, TP4, TP5	4		5129	Keystone	Test Point, Multipurpose, Purple, TH	Purple Multipurpose Testpoint
36	TP3, TP6	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
37	U1	1		LM74700QDBVRQ1	Texas Instruments	Low Iq Always ON Smart Diode Controller, DBV0006A (SOT-23-6)	DBV0006A
38	U2	1		LM63615DQPWRQ1	Texas Instruments	3.5-V to 36-V, 1.5-A Synchronous Step-Down Voltage Regulator with Spread Spectrum, PWP0016K (HTSSOP-16)	PWP0016K
39	U3	1		TPS61240IDRVRQ1	Texas Instruments	Automotive Catalog 5V, 400mA, 4MHz Step-Up DC/DC Converter, DRV0006A (WSON-6)	DRV0006A
40	U4	1		TPS62812QWRWYRQ1	Texas Instruments	Automotive Low Input Voltage, Adjustable-Frequency Step-down Converter, RWY0009A (VQFN-HR-9)	RWY0009A
41	C8	0	390pF	GCM155R71H391KA37D	MuRata	CAP, CERM, 390 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
42	R1	0	3.01	CRCW08053R01FKEA	Vishay-Dale	RES, 3.01, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805

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