

Variant: 001
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PMP22800 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		PMP22800	Any	Printed Circuit Board	
2	C1, C2, C3, C8	4	220uF	EKZN350ELL221MH15D	Chemi-Con	CAP. AL, 220 uF, 35 V, +/- 20%, 0.059 ohm, TH	D8xL15mm
3	C4, C5	2	1uF	GJ821BR71H105KA12L	MuRata	CAP. CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	805
4	C6	1	0.022uF	C0603C22K3RACTU	Kemet	CAP. CERM, 0.022 uF, 25 V, +/- 10%, X7R, 0603	603
5	C7	1	330pF	08051C331KAT2A	AVX	CAP. CERM, 330 pF, 100 V, +/- 10%, X7R, 0805	805
6	C9, C10	2	100uF	HHXB500ARA101MJA0G	Chemi-Con	CAP. Aluminum Polymer, 100 uF, 50 V, +/- 20%, 0.025 ohm, AEC-Q200 Grade 2, D10xL10mm SMD	D10xL10mm
7	C11, C14	2	10uF	CL31B106KBHNNNE	Samsung	CAP. CERM, 10 uF, 50 V, +/- 10%, X7R, 1206	1206
8	C12, C15	2	1uF	CL121B105KBFNFNE	Samsung	CAP. CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	805
9	C13, C16, C20	3	0.1uF	06035C104JAT2A	AVX	CAP. CERM, 0.1 uF, 50 V, +/- 5%, X7R, 0603	603
10	C17	1	4.7uF	C2012X7R1E475K125AB	TDK	CAP. CERM, 4.7 uF, 25 V, +/- 10%, X7R, 0805	805
11	C19	1	330pF	C0603C331K5RACTU	Kemet	CAP. CERM, 330 pF, 50 V, +/- 10%, X7R, 0603	603
12	C21	1	0.1uF	C0603C104J3RAC	Kemet	CAP. CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	603
13	C22, C24	2	0.1uF	C0603X104K3RACTU	Kemet	CAP. CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	603
14	C25	1	4.7uF	C3216X7R1H475K160AE	TDK	CAP. CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1206	1206
15	C26	1	0.22uF	C1608X7R1H224K080AB	TDK	CAP. CERM, 0.22 uF, 50 V, +/- 10%, X7R, 0603	603
16	C27, C28, C29	3	22uF	C3225X7R1C226K250AC	TDK	CAP. CERM, 22 uF, 16 V, +/- 10%, X7R, 1210	1210
17	C30	1	0.1uF	C0603C104J4RACTU	Kemet	CAP. CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0603	603
18	C31	1	1uF	CL10B105K08NFNC	Samsung Electro-Mechanics	CAP. CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	603
19	C32	1	220uF	EEV-FK1J221Q	Panasonic	CAP. AL, 220 uF, 63 V, +/- 20%, 0.16 ohm, AEC-Q200 Grade 2, SMD	SMT Radial H13
20	C33	1	2.2uF	C1210C225K1RACTU	Kemet	CAP. CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
21	C34	1	0.33uF	CGA5L2X8R1H334K160AA	TDK	CAP. CERM, 0.33 uF, 50 V, +/- 10%, X8R, AEC-Q200 Grade 0, 1206	1206
22	C36	1	1uF	CGA3E1X7R1E105K080AD	TDK	CAP. CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
23	D1	1	33V	SMCJ33CA-13-F	Diodes Inc.	Diode, TVS, Bi, 33 V, 53.3 Vc, 1500 W, 200 A, SMC	SMC
24	D2	1	100V	VS-50WQ10FNTRHM3	Vishay-Semiconductor	Diode, Schottky, 100 V, 5.5 A, AEC-Q101, DPAK	DPAK
25	D3	1	30V	SMBJ30A-13-F	Diodes Inc.	Diode, TVS, Uni, 30 V, 48.4 Vc, SMB	SMB
26	D4	1	150V	ES1C-13-F	Diodes Inc.	Diode, Superfast Rectifier, 150 V, 1 A, SMA	SMA
27	D7	1	33V	SMBJ33CA-13-F	Diodes Inc.	Diode, TVS, Bi, 33 V, SMB	SMB
28	J1, J2, J3, J6	4		282841-2	TE Connectivity	Terminal Block, 2x1, 5.08mm, TH	10.16x15.2x9mm
29	J4	1		5102	Keystone	Shorting Jumper, 5.375mm, 2 Position, Tin, SMT	Shorting Jumper, 5.375mm, 2 Position, SMT
30	L1	1	18uH	744066180	Würth Elektronik	Inductor, Shielded, 18 uH, 2.8 A, 0.054 ohm, SMD	10x3.8x10mm
31	Q1, Q3	2	100V	CSD19533Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 13 A, DQJ0008A (VSONP-8)	DQJ0008A
32	Q2	1	60V	RK7002BMT116	Rohm	MOSFET, N-CH, 60 V, 0.25 A, SOT-23	SOT-23
33	Q4	1	20 V	FMMT718TA	Diodes Inc.	Transistor, PNP, 20 V, 1.5 A, SOT-23	SOT-23
34	Q6	1	60V	DMT8007LFG-13	Diodes Inc.	MOSFET, N-CH, 60 V, 15 A, AEC-Q101, 8-PowerVDFN	8-PowerVDFN
35	R1	1	499k	RC0603FR-07499KL	Yageo	RES, 499 k, 1%, 0.1 W, 0603	603
36	R2	1	453k	RC0603FR-07453KL	Yageo	RES, 453 k, 1%, 0.1 W, 0603	603
37	R3	1	82.5k	RC0603FR-0782K5L	Yageo	RES, 82.5 k, 1%, 0.1 W, 0603	603
38	R4	1	60.4k	RC0603FR-0760K4L	Yageo	RES, 60.4 k, 1%, 0.1 W, 0603	603
39	R5	1	22.6k	RC0603FR-0722K6L	Yageo	RES, 22.6 k, 1%, 0.1 W, 0603	603
40	R6	1	3.01k	RC0603FR-073K01L	Yageo	RES, 3.01 k, 1%, 0.1 W, 0603	603
41	R7	1	20.0k	RC0603FR-0720KL	Yageo	RES, 20.0 k, 1%, 0.1 W, 0603	603
42	R8, R12, R13, R23, R27	5	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
43	R9	1	25.5	CRCW080525R5FKEA	Vishay-Dale	RES, 25.5, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
44	R10	1	1.40Meg	CRCW06031M40FKEA	Vishay-Dale	RES, 1.40 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
45	R11	1	150k	RC0603FR-07150KL	Yageo	RES, 150 k, 1%, 0.1 W, 0603	603
46	R14	1	5.90k	RC0603FR-075K9L	Yageo	RES, 5.90 k, 1%, 0.1 W, 0603	603
47	R15	1	2.49k	RC0603FR-072K49L	Yageo	RES, 2.49 k, 1%, 0.1 W, 0603	603
48	R16	1	5.62k	RC0603FR-075K62L	Yageo	RES, 5.62 k, 1%, 0.1 W, 0603	603
49	R17, R24	2	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	603
50	R18, R22	2	3.01k	ERJ-P03F3011V	Panasonic	RES, 3.01 k, 1%, 0.2 W, 0603	603
51	R19	1	0.004	ERJ-M1W5F4M0U	Panasonic	RES, 0.004, 1%, 1 W, 2512	2512
52	R20	1	220k	RC0603FR-07220KL	Yageo	RES, 220 k, 1%, 0.1 W, 0603	603
53	R21	1	11.5k	RC0603FR-0711K5L	Yageo	RES, 11.5 k, 1%, 0.1 W, 0603	603
54	R25	1	24.9k	RC0603FR-0724K9L	Yageo	RES, 24.9 k, 1%, 0.1 W, 0603	603
55	T1	1		750311604	Würth Electronics	Power Transformers WE-FB Flyback 8.0uH 1.3 24V	SMT_XFRMR_29MM08_23MM11
56	TP1, TP3, TP4, TP7	4		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
57	TP2, TP5, TP6, TP8	4		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
58	U1	1		TPS26631PWPR	Texas Instruments	60-V, 6-A Power limiting, surge protection industrial eFuse, PWP0020T (HTSSOP-20)	PWP0020T
59	U2	1		LM74700QDBVTQ1	Texas Instruments	Low Iq Always ON Smart Diode Controller, DBV0006A (SOT-23-6)	DBV0006A
60	U3	1		LM51551DSSR	Texas Instruments	2.2-MHz Wide Input Nonsynchronous Boost, Sepic, Flyback Controller, DSS0012B (WSON-12)	DSS0012B
61	U4	1		PS2811-1-M-A	California Eastern Laboratories	Optocoupler, 2.5 kV, 100-200% CTR, SMT	PS2811-1
62	U5	1		TL431LJAIADBZR	Texas Instruments	Programmable Shunt Regulator with Optimized Reference Current, DBZ0003A (SOT-23-3)	DBZ0003A
63	U6	1		LMR33620ADDAR	Texas Instruments	3.8V to 36V 3A/2A Synchronous Step-Down Voltage Regulator, DDA0008J (SOIC-8)	DDA0008J
64	C18	0	0.01uF	C0603C103K5RACTU	Kemet	CAP. CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	603
65	C23	0	330pF	C0603C331K5RACTU	Kemet	CAP. CERM, 330 pF, 50 V, +/- 10%, X7R, 0603	603
66	D6	0	58V	SMAJ58A	Diodes Inc.	Diode, TVS, Uni, 58 V, SMA	SMA
67	J5	0		5102	Keystone	Shorting Jumper, 5.375mm, 2 Position, Tin, SMT	Shorting Jumper, 5.375mm, 2 Position, SMT
68	R26	0	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603

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