

PMP23069 REV C Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		PMP23069	Any	Printed Circuit Board	
2	5Vp, 12Vp, N, Vout1	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
3	C1	1	100pF	AY2101K29YSS63L7	Vishay	100pF ±10% 440VAC Ceramic Capacitor YSS Radial, Disc	RADIAL
4	C26, C61	2	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	603
5	C31, C32, C33, C39, C40, C67	6	0.1uF	06033C104JA12A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	603
6	C41, C42, C48, C49	4	2200pF	DE6E3KJ222MN3A	MuRata	CAP, CERM, 2200 pF, 300 V, +/- 20%, E, TH, 2-Leads, Body 9x7mm, Pin Spacing 7.5mm	TH, 2-Leads, Body 9x7mm, Pin Spacing 7.5mm
7	C44	1	470nF	B32913A3474K000	TDK	0.47uF Film Capacitor 330V 760V Polypropylene (PP), Metallized Radial	RADIAL
8	C45	1	1.5uF	8.90334E+11	Würth Electronics	1.5 uF Film Capacitor 310V - Polypropylene (PP), Metallized Radial	RADIAL
9	C46, C47	2	1uF	B58031U5105M062	TDK	TDK 1uF Multilayer Ceramic Capacitor MLCC 500V dc ±20% SMD	SMD2
10	C52, C53	2	0.022uF	GRM32JR7E1222K3W01L	MuRata	CAP, CERM, 0.022 uF, 630 V, +/- 10%, X7R, 1210	1210
11	C54	1	1uF	GRM185R60J105K250	MuRata	CAP, CERM, 1 uF, 6.3 V, +/- 10%, X5R, 0603	603
12	C55, C62, C63	3	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1 uF, 6.3 V, +/- 10%, X7R, 0402	402
13	C56	1	1000pF	GRM155R60J102KA01D	MuRata	CAP, CERM, 1000 pF, 6.3 V, +/- 10%, X5R, 0402	402
14	C57, C59	2	10uF	0805YD106MA12A	AVX	CAP, CERM, 10 uF, 16 V, +/- 20%, X6R, 0805	805
15	C58, C68, C69	3	100pF	0402YC101KA12A	AVX	CAP, CERM, 100 pF, 16 V, +/- 10%, X7R, 0402	402
16	C60, C74	2	1uF	C3216XR7E105K080AA	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 1206	1206
17	C64, C65	2	1000pF	0603SA102KA12A	AVX	CAP, CERM, 1000 pF, 50 V, +/- 10%, C05NP0, 0603	603
18	C66	1	0.01uF	C0603X103K5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	603
19	C70, C71	2	47uF	GRM32ER61C476KE15L	MuRata	CAP, CERM, 47 uF, 16 V, +/- 10%, X5R, 1210	1210
20	C72	1	1uF	C0805C105K3RACTU	Kemet	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	805
21	C73	1	22uF	CL21A226KQ0NNNE	Samsung Electro-Mechanics	CAP, CERM, 22 uF, 6.3 V, +/- 10%, X6R, 0805	805
22	C75	1	1000pF	GRM185R7E105K0A01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	603
23	C76	1	0.1uF	0402YC104KA12A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	402
24	Cbulk	1	910uF	450 MXR 910 M TCK SN 30X80	Rubycon	CAP, AL, 910 uF, 450 V, +/- 20%, TH	Dia 30mm
25	D1, D2	2		VS-15EVL06-M3/I	Vishay	DIODE GEN PURPOSE 600V SLIMPAK	
26	D8, D10	2	40V	MBR140SFT1G	ON Semiconductor	Diode, Schottky, 40 V, 1 A, SOD-123FL	SOD-123FL
27	D9, D12, D15	3	600V	DFL4160J-7	Diodes Inc.	Diode, Standard Recovery Rectifier, 600 V, 1 A, PowerDI23	PowerDI23
28	D11	1		FFA60UA60DN	ON Semiconductor	Diode Array 1 Pair Common Cathode Standard 600V 30A Through Hole TO-3P-3, SC-65-3	SC-65
29	HFFET_HS1, HFFET_LS1, HS_OC1, LS_OC1	4		5004	Keystone	Test Point, Miniature, Yellow, TH	Yellow Miniature Testpoint
30	HS_FLT1, HS_TMP1, LS_FLT1, LS_TMP1, TP7, TP8, TP9	7		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
31	J1, J2	2		LPPB102CFFN-RC	Sullins Connector Solutions	Receptacle, 1.27mm, 10x2, Gold, TH	Receptacle, 1.27 mm, TH
32	J3	1		PBC02DAAN	Sullins Connector Solutions	Header, 2.54mm, 2x2, Gold, TH	Header, 2.54mm, 2x2, TH
33	J4	1		PBC03DAAN	Sullins Connector Solutions	Header, 100mil, 3x2, Gold, TH	Sullins 100mil, 2x3, 230 mil above insulator
34	J5	1		703W-00/54	Quatek Electronics Corporation	AC Receptacle, 10A 250VAC	20X50X28.7mm
35	J6	1		HLE-106-02-G-DV-BE-A	Samtec	12 Position Receptacle, Bottom Entry Connector Surface Mount	HDR12
36	J7, J8	2		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
37	L1	1	100uH	PAL6598-104NLT	Pulse Electronics	Inductor Buck/Boost, Toroid, TH, 100uH 15% 8A	PTH_20MM5_11MM0
38	L2	1		PAC6596NLT	Pulse Electronics	IND, CUR-SENSE, 4MH, 20A, TOR, TH	PTH_TRANSFORMER_30MM0_19MM0
39	L3	1	8.3mH	PAC6597NLT	Pulse Electronics	INDUCTOR CUR-SENSE 8.3mH TOR TH	PTH_25MM0_12MM5
40	L4	1	300uH	PAL6585	Pulse Electronics	Inductor Power 300uH	PTH_32MM0_27MM8
41	L5	1		74438336022	Würth Electronics	2.2uH Shielded Molded Inductor 2.4A 67mOhm Max 2-SMD	SMD2
42	L_PGND1, PGND2, PGND4, PGND5, PGND6, PGND7	7		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
43	Q4, Q5	2		1P760R02257XTMA1	Infineon	N-Channel 600V 23A (Tc) 390W (Tc) Surface Mount PG-HSOF-8-2	HSOF-8
44	Q7	1		1P760R060P77XSA1	Infineon Technologies	MOSFET N-CH 600V 48A TO220-3	TO-220AB
45	R42, R45	2	150k	CRCW0402150KFKED	Vishay-Dale	RES, 150 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
46	R43, R46	2	10.0k	ERJPA2F1002X	Panasonic	RES, 10.0 k, 1%, 0.2 W, AEC-Q200 Grade 0, 0402	402
47	R47, R48, R49, R50, R51, R52, R60, R61, R62, R84, R85, R87	12	348k	RC1206FR-07348KL	Yageo America	RES, 348 k, 1%, 0.25 W, 1206	1206
48	R57, R55, R77	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
49	R58	1	5.11	CRCW06035R11FKEA	Vishay-Dale	RES, 5.11, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
50	R64	1	5.11	CRCW12065R11FKEA	Vishay-Dale	RES, 5.11, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
51	R70, R71, R75, R78	4	0.01	CSR1206FK10L0	Stackpole Electronics Inc	RES, 0.01, 1%, 0.5 W, 1206	1206
52	R82, R86	2	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	402
53	R88	1	0	CRCW0402000020ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
54	R89	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
55	R90	1	10	CRCW060310R0JNEAHP	Vishay-Dale	RES, 10, 5%, 0.25 W, AEC-Q200 Grade 0, 0603	603
56	R91, R98	2	0	CRCW0603000020EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
57	R12	1	50	B59751B0120A070	TDK	Thermistor NTC, 50 ohm, 25%, D12.5xH16.5mm	D12.5xH16.5mm
58	TP1, TP2, TP3, TP4, TP5, TP6	6		0312-0-15-15-34-27-10-0	Mill-Max	Pin Receptacle, .032-.046" .075" Dia, Gold, TH	Pin Receptacle
59	U4	1		LMP7717MF/NOPB	Texas Instruments	88 MHz, Precision, Low Noise, 1.8V CMOS Input, Decoupled Operational Amplifier, DBV0005A (SOT-23-5)	DBV0005A
60	U5	1		REF2025AIDDCR	Texas Instruments	8 ppm/degC Drift, Low-Power, Dual-Output Vref and Vref/2 Voltage References, DDC0005A (SOT-23-1-5)	DDC0005A
61	U7	1		TMCS1100A1DT	Texas Instruments	TMCS1100A1DT, D0008A (SOIC-8)	D0008A
62	U8	1		UCC27511DBVR	Texas Instruments	4A/8A Single Channel High-speed Low-side Gate Driver, DBV0006A (SOT-23-6)	DBV0006A
63	U9	1		UCC27712DR	Texas Instruments	620-V High-Side Low-Side Gate Driver with 2.5A Peak Output and RobustDrive, D0008A (SOIC-8)	D0008A
64	U10	1		TLV7133PDBVR	Texas Instruments	150-mA, Low-Dropout Regulator with Foldback Current Limit for Portable Devices, DBV0005A (SOT-23-5)	DBV0005A
65	U11	1		UCC21220DR	Texas Instruments	4-A, 6-A, 3.0-kVRMS Isolated Dual-Channel Gate Driver, D0016B (SOIC-16)	D0016B
66	U12	1		TPS62163DSGR	Texas Instruments	Buck Step Down Regulator with 3 to 17 V Input and 5 V Output, -40 to 85 degC, 8-Pin WSON (DSG), Green (RoHS & no Sb/Bn)	DSG0008A
67	R3, R4	0	0	CRCW0402000020ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
68	R83	0	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	402