

Variant: 001
Generated: 7/16/2026 5:32 PM
TID #: PMP41133

PMP41133 REV V3 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB201	1		PMP41133	Any	Printed Circuit Board	
2	SVP, VALX, VCC, Vin, Vout	5		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
3	BLK, HG, I_opt, ISNS, LG, QVP, OTP, SW	7		5012	Keystone Electronics	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
4	C1, C2	2	22uF	UCY2H220MH	Nichicon	CAP, AL, 22 uF, 500 V, +/- 20%, TH	12.5x35.5mm
5	C3, C4	2	8800pF	B81123C182M	TDK	CAP, Film, 8800 pF, 3000 V, +/- 20%, TH	25.5x8.5mm
6	C5, C6	2	1000pF	V1102RA103KAT5Z	Vishay-Vitramon	CAP, CERM, 100 pF, 1000 V, +/- 5%, COG/NP0, 1206	1206
7	C7	1	220pF	C0603C221K5GACTU	Kemet	CAP, CERM, 220 pF, 50 V, +/- 10%, COG/NP0, 0603	0603
8	C8	1	2.2uF	C2012X7R1225K085AC	TDK	CAP, CERM, 2.2 uF, 35 V, +/- 10%, X7R, 0805	0805
9	C9	1	1300pF	GRM188R7J3K25CAU0D	MuRata	CAP, CERM, 1300 pF, 50 V, +/- 10%, X7R, 0603	0603
10	C10	1	10uF	GRM31CR71E106MA12L	MuRata	CAP, CERM, 10 uF, 25 V +/- 20%, X7R, AEC-Q200 Grade 1, 1206	1206
11	C11, C115	2	220pF	ECA-1VM221B1	Parasonic	CAP, AL, 220 pF, 35 V, +/- 20%, TH	12x6x11.5mm
12	C12	1	1000pF	C0603C101K5GACTU	Kemet	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
13	C15, C106	2	0.01uF	GRM188R7J1H03KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
14	C17	1	150pF	GRM188C1H161JA01D	MuRata	CAP, CERM, 150 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
15	C18, C20	2	100pF	LC2-11111NQM1M5	Nichicon	CAP, AL, 100pF, 100 uF, 63 V, +/- 20%, 0.015 ohm, SMD	0.12 x0.13 x1.5mm
16	C19	1	470pF	GRM188R72A471KA01D	MuRata	CAP, CERM, 470 pF, 100 V, +/- 10%, X7R, 0603	0603
17	C21, C22	2	47uF	UPJ1K470MPD1TD	Nichicon	CAP, AL, 47 uF, 80 V, +/- 20%, TH	08x14.5mm
18	C23, C24	2	0.47uF	C2012X7R224K125A4B	TDK	CAP, CERM, 0.47 uF, 100 V, +/- 10%, X7S, 0805	0805
19	C25, C26, C27, C28	4	0.022uF	VJ1206Y223KXGAT5Z	Vishay-Vitramon	CAP, CERM, 0.022 uF, 1000 V, +/- 10%, X7R, 1206	1206
20	C29	1	0.1uF	C0603C104K5RACAU0D	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
21	C103, C104, C116	3	1uF	CGA5LX7R1E105K080AC	TDK	CAP, CERM, 1 uF, 25 V +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
22	C106	1	220pF	C0603C221K5RACACTU	Kemet	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
23	C107, C114	2	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
24	C108	1	4.7uF	GRM21BR71E47KA73L	MuRata	CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, 0805	0805
25	C109	1	1000pF	C0603C102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
26	C110	1	2200pF	C0603C220K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
27	C111	1	0.1uF	GCM188R71E104KA57D	MuRata	CAP, CERM, 0.1 uF, 25 V +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
28	C112, C113	2	68pF	GRM31ATU10460W31D	MuRata	CAP, CERM, 68 pF, 1000 V, +/- 5%, UQJ, 1206	1206
29	C14	1	220pF	DE18K4221K48B00F	MuRata	CAP, CERM, 220 pF, V +/- 10%, 8, 0.8x7mm	0.8x7mm
30	D1	1	75V	1N4148WS-7-F	Diodes Inc.	Diode, Switching, 75 V, 0.15 A, AEC-Q101, SOD-323	SOD-323
31	D2	1	100V	PM1G1000DELRX	Nguyen	Diode, Schottky, 100 V, 2 A, AEC-Q101, SOD-123W	SOD-123W
32	D3, D4	2	100V	MBR3200A-1201-71	Microsemi	Common Cathode Schottky 150V 30A Through Hole TO-220-3	TO-220-3
33	D5, D107	2	18V	SZMM3218VST1G	ON Semiconductor	Diode, Zener, 18 V, 300 mW, AEC-Q101, SOD-323	SOD-323
34	D101, D102, D103, D104	4	130V	15MB85928T3G	ON Semiconductor	Diode, Zener, 130 V, 550 mW, SMB	SMB
35	D108	1	600V	STTH1R06A	STMicroelectronics	Diode, Ultrafast, 600 V, 1 A, SMA	SMA
36	D109	1	20V	DO228G-7	Diodes Inc.	Diode, Zener, 20 V, 500 mW, AEC-Q101, SOD-123	SOD-123
37	D110, D111	2	600V	FS1J4W	Fairchild Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAE	SMAE
38	D112	1	1200V	STTH112A	STMicroelectronics	Diode, Ultrafast, 1200 V, 1 A, SMA	SMA
39	D114	1	12V	MM3Z12VST1G	ON Semiconductor	Diode, Zener, 12 V, 300 mW, SOD-323	SOD-323
40	D115	1	15V	MM3Z15VST1G	ON Semiconductor	Diode, Zener, 15 V, 300 mW, SOD-323	SOD-323
41	H1, H2	2		S3120202500G	Awad	TH, 2-Leads, Body 34.9x12.7mm, Pin Spacing 25.4mm	
42	H201, H204, H207, H210	4		SJ-5303 (CLEAR)	3M	Bumpin, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpin
43	H201, H205, H208, H211	4		1902C	Keystone	Standoff, Hex, 0.5"L 44-40 Nylon	Standoff
44	H203, H206, H209, H212	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
45	H91, H92	2		5013	Keystone Electronics	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint
46	J1, J2, J3	3		6 8111DE411			
47	J3, J4	2		961102-6804-AR	3M	Header, 2.54mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
48	L1	1		750345698	Würth	Customized resonant inductor L = 18uH	
49	PGND, SGND, SGND2	5		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
50	Q1	1	800V	PBHV8560Z	Nguyen	Bipolar (BJT) Transistor NPN 600V 500mA 650mW Surface Mount SOT-223	SOT-223
51	Q2	1	500 V	PBHV9050Z 115	NXP Semiconductor	Transistor, PNP, 500 V, 0.25 A, AEC-Q101, SOT-223	SOT-223
52	Q3, Q4	2		MM3Z360234M2HXTMA1	Infineon	N-Channel 1200 V 1.6 A (TO 80W (TO) Surface Mount PG-TO263-7-12	TO263-7
53	U6	1	80V	ISOM81100R3R	Texas Instruments	3.75-WRMS, Single-Channel OpAmp-Emulator with Analog Transistor Output	SOIC4
54	U102	1	600V	BSS128H6327KTS42	Infineon Technologies	MOSFET, N-CH, 600 V, 0.021 A, AEC-Q101, SOT-23	SOT-23
55	U104	1	60 V	FZT651TA	Zenex	Transistor, NPN, 60 V, 3 A, SOT-223	SOT-223
56	U105	1	60V	2N7002W-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.115 A, SOT-323	SOT-323
57	R1, R2, R3, R4	4	1.00Meg	RC1206R-071ML	Yageo America	RES, 1.00 M, 1%, 0.25 W, 1206	1206
58	R5, R6	2	1.00Meg	CRCW06033K9K9KEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
59	R7, R8	2	1	RC0603FR-071RL	Yageo	RES, 1.00, 1%, 0.1 W, 0603	0603
60	R9, R10	2	51.0k	RC0603FR-075KL	Yageo	RES, 51.0 k, 1%, 0.1 W, 0603	0603
61	R11	1	240	RC0603FR-0740RL	Yageo	RES, 240, 1%, 0.1 W, 0603	0603
62	R12	1	0	CRCW1206000020EA	Vishay-Dale	RES, 0.5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
63	R14	1	4.7	RCWJ12064R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
64	R15	1	1.2k	RC0603FR-071K24L	Yageo	RES, 1.2 k, 1%, 0.1 W, 0603	0603
65	R16	1	0	MCR302PZ-3000	Rohm	RES, 0.5%, 0.1 W, 0603	0603
66	R17	1	0	CRCW0603000020EA	Vishay-Dale	RES, 0.5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
67	R19	1	5.11k	RC0603FR-075K11L1	Yageo	RES, 5.11 k, 1%, 0.1 W, 0603	0603
68	R20	1	4.99k	CRCW06034K98K9KEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
69	R21	1	10.0k	RC0603010K0K9KEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
70	R25	1	33.2k	CRCW060333K2K9KEA	Vishay-Dale	RES, 33.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
71	R26	1	1.00k	RC0603FR-071KL	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	0603
72	R27	1	137k	RC0603FR-07137KL	Yageo	RES, 137 k, 1%, 0.1 W, 0603	0603
73	R28	1	1.5k	RC0603FR-0715KL	Yageo	RES, 1.5 k, 1%, 0.1 W, 0603	0603
74	R29	1	20	CRCW060320R0K9KEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, 0603	0603
75	R101, R125, R127	3	3.24Meg	RCWJ12063M24K4KEA	Vishay-Dale	RES, 3.24 M, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
76	R104	1	1.00Meg	RC0603FR-071ML	Yageo	RES, 1.00 M, 1%, 0.1 W, 0603	0603
77	R107	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
78	R110, R122	2	2.2	6A1-30-02P-R2V	Parasonic	RES, 2.20, 1%, 0.1 W, 0603	0603
79	R111, R112, R113, R123, R124	5	2.43Meg	CRCW12062M43K3KEA	Vishay-Dale	RES, 2.43 M, 1%, 0.25 W, 1206	1206
80	R114	1	39k	CRCW060339K0JNEA	Vishay-Dale	RES, 39 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
81	R115	1	590k	RC0603FR-0759KL	Yageo	RES, 590 k, 1%, 0.1 W, 0603	0603
82	R116	1	51.0k	RC0603FR-0715KL	Yageo	RES, 51.0 k, 1%, 0.1 W, 0603	0603
83	R117	1	694k	RC0603FR-0769KL	Yageo	RES, 694 k, 1%, 0.1 W, 0603	0603
84	R118	1	165k	RC0603FR-07165KL	Yageo	RES, 165 k, 1%, 0.1 W, 0603	0603
85	R119, R120	2	15.0k	RG160HP-653-B-TS	Sutro Co Ltd	RES, 15.0 k, 0.1%, 0.1 W, 0603	0603
86	R121	1	470k	BS1712V24C-A000	Infotronics	1206 Thermistor 470k 0603 (1608 Metric)	0603
87	R128	1	0	ERJ-3GEY0R00V	Parasonic	RES, 0.5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
88	R129	1	200k	RC0603FR-0720KL	Yageo	RES, 200 k, 1%, 0.1 W, 0603	0603
89	U1	1		750345697	Würth	Customized LLC transformer, Lp = 650uH	
90	U1	1		ATL4321AIDB2R	Texas Instruments	High-bandwidth low-IQ programmable shunt regulator, DBZ0003A (SOT-23)	DBZ0003A
91	U101	1		UCC256602DDBR	Texas Instruments	750kHz Wide VIN/VOUT Range LLC Controller Optimized for Light Load Efficiency	SOIC14
92	U102	1		UCC530508DR	Texas Instruments	3kVrms, SAKSA single-channel isolated gate driver with miller clamp or split gate & 8V or 12V UxLO	SOIC8
93	C13	0	4700pF	GCM188R72A472KA37D	MuRata	CAP, CERM, 4700 pF, 100 V +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
94	C14, C16	0	470pF	GRM218C2A471JA01D	MuRata	CAP, CERM, 470 pF, 100 V, +/- 5%, COG/NP0, 0805	0805
95	C101	0	10uF	V1102RA103KAT5Z	Vishay-Vitramon	CAP, CERM, 10 uF, 1000 V, +/- 5%, COG/NP0, 1206	1206
96	C102	0	10uF	GRM188R7A106MA73	Nichicon	CAP, CERM, 10 uF, 35 V, +/- 20%, XSR, 0603	0603
97	D105, D106	0	18V	SZMM3218VST1G	ON Semiconductor	Diode, Zener, 18 V, 300 mW, AEC-Q101, SOD-323	SOD-323
98	C113	0	40V	4ESD1S318R-C	Texas Instruments	Transistor, Dual NPN, 40 V, 0.2 A, SOT-363	SOT-363
99	Q5	0	40 V	MMDT3904-7-F	Diodes Inc.	Diode, Switching, 40 V, 1 A, SOT-363	SOT-363
100	Q101	0	60V	2N7002Q-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.115 A, AEC-Q101, SOT-23	SOT-23
101	Q102	0	600V	BSS128H6327KTS42	Infineon Technologies	MOSFET, N-CH, 600 V, 0.021 A, AEC-Q101, SOT-23	SOT-23
102	R13	0	1.24k	RC0603FR-071K24L	Yageo	RES, 1.24 k, 1%, 0.1 W, 0603	0603
103	R18	0	1.21k	CRCW06031K21K1KEA	Vishay-Dale	RES, 1.21 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
104	R22, R24	0	10	RC1206R-071RL	Yageo America	RES, 10.0, 1%, 0.25 W, 1206	1206
105	R102	0	1.50Meg	RC0603FR-071M5L	Yageo	RES, 1.50 M, 1%, 0.1 W, 0603	0603
106	R103	0	1.0k	CRCW06031K0JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
107	R109	0	1.00Meg	RC0603FR-071ML	Yageo	RES, 1.00 M, 1%, 0.1 W, 0603	0603
108	R106	0	220	RC0603FR-07220RL	Yageo	RES, 220, 1%, 0.1 W, 0603	0603
109	R108, R109	0	0	ERJ-3GEY0R00V	Parasonic	RES, 0.5%, 0.1 W, 0603	0603
110	R126	0	715k	RC0603FR-07715KL	Yageo	RES, 715 k, 1%, 0.1 W, 0603	0603

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you fully indemnify TI and its representatives against any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to [TI's Terms of Sale](#), [TI's General Quality Guidelines](#), or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products. Unless TI explicitly designates a product as custom or customer-specified, TI products are standard, catalog, general purpose devices.

TI objects to and rejects any additional or different terms you may propose.

Copyright © 2026, Texas Instruments Incorporated

Last updated 10/2025