

PMP41134 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	1, 2	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
2	3, 4	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
3	C1, C2, C4, C7, C14, C17	6	10nF	C325C0G5A103J250AC	TDK	Multilayer Ceramic Capacitors 10nF ±5% 1000V COG SMD 1210	1210
4	C3	1	0.1uF	CL10B104K028NNC	Samsung Electro-Mechanics	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	0603
5	C5, C6, C9, C10, C15, C16, C19, C21, C23, C27, C29, C36, C37, C39, C41, C43, C44, C45, C46, C113	20	100nF	C4532C0G20A104J320KN	TDK	Multilayer Ceramic Capacitors 100nF ±5% 250V COG SMD 1812	1812
6	C8, C101, C106, C109	4	220uF	450QXW220MEFC18X50	Rubycon	CAP, AL, 220 uF, 450 V, +/- 20%, TH	D18xL50mm
7	C11, C12, C13, C105	4	0.1uF	CGA6L1X7T2J104K160AC	TDK	CAP, CERM, 0.1 uF, 630 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
8	C18	1	470pF	GRM1585C10H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
9	C20, C30, C32, C47, C48, C89	6	1uF	CGA3E1X7R1C105K080AC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
10	C22, C28	2	3.3nF	C325C0G3A332J200AE	TDK	Multilayer Ceramic Capacitors 3.3nF ±5% 1000V COG SMD 1210	1210
11	C24, C31, C33, C34, C35, C38, C74, C78, C79, C80, C82, C85, C103, C110, C112, C143, C144, C149, C150, C151	20	0.1uF	GRM158R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	0402
12	C25, C42	2	0.01uF	GCM158R71E103KA37D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0402	0402
13	C26	1	0.1uF	06033C104KA2ZA	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
14	C40	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	0603
15	C49, C50, C51, C52, C53, C54, C55, C56, C58, C60, C64, C65, C66, C67, C68, C69, C70, C71, C72, C114, C115, C116	22	4.7uF	GRM31C27A479KE11L	Samsung	CAP, CERM, 4.7 uF, 100 V, +/- 10%, X7R, 1206	1206
16	C57	1	2.2uF	GRM31CR72A225KAT3L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1206, 190	1206, 190
17	C59, C61, C62, C83	4	1mF	EGPDB00EL102MLSSH	United Chemi-Con	1000 µF 80 V Aluminum Electrolytic Capacitors Radial, Can 27mmOhm @ 100kHz 2000 Hrs @ 135°C	RADIAL
18	C73	1	100pF	C0402C101J3GACTJU	Kemet	CAP, CERM, 100 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
19	C75, C102	2	4.7uF	GRM188Z71C475K2E21D	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, 0603	0603
20	C77, C130	2	1uF	GRM31CR71E105KA88D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	0805
21	C78, C81, C82, C83, C84, C85, C88, C89, C90, C91, C94, C99, C100	13	1000pF	CLO5B102K85NNC	Samsung Electro-Mechanics	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	0402
22	C86, C87	2	1uF	8 85012E+11	Wurth Elektronik	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
23	C96	1	0.033uF	GRM158R71E333KA88D	MuRata	CAP, CERM, 0.033 uF, 25 V, +/- 10%, X7R, 0402	0402
24	C97	1	470pF	CGA282X7RH71K090BA	TDK	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
25	C98, C107, C108	3	100pF	C0402C100J080N01	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
26	C104	1	4700pF	GCM188R72A472KA37D	MuRata	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
27	C111	1	1uF	CL10B105KA8VJJC	Samsung	Cap Ceramic 1uF 25V X7R ±10% Pad SMD 0603 +125°C T/R	0603
28	C128, C129	2	47uF	GRM328R1C476K1E15L	MuRata	CAP, CERM, 47 uF, 16 V, +/- 10%, X5R, 1210	1210
29	C131	1	22uF	CL1A226P00NNNE	Samsung Electro-Mechanics	CAP, CERM, 22 uF, 16 V, +/- 10%, X5R, 0805	0805
30	C140, C141	2	0.1uF	C100537R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402	0402
31	C142	1	1uF	CGA3E1X7R1E105K080AC	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
32	C15	1	24V	NUP216SL1G	ON Semiconductor	Diode, TVS, 5.0, 24 V, SOT-23	SOT-23
33	HV_SW1, HV_SW2, HVBUS1, HVBUS2, PGND, PGND1, PGND2	12	24V	0312-0-15-15-34-27-10-0	Mil-Max		Pin Receptacle
34	J1, J8	2		M50-3000445	Harwin	Conn Socket Strip SKT 8 POS 1.27mm Solder ST Thru-Hole	CONN, SOCKET STRPS
35	J4	1		613005110021	Wurth Elektronik	Header, 2.54 mm, 5x1, Gold, R/A, TH	Header, 2.54 mm, 5x1, R/A, TH
36	J6	1		HSEC8-160-61-L-DV-A-BL	Sarnec	C2000 controlCARD-120HSEC connector, SMT	C2000 pin numbering
37	J7, J8	2		801-41-003-10-001000	Mil-Max	Receptacle, 2.54mm, 3x1, Gold, TH	Receptacle, 2.54mm, 3x1, TH
38	J9	1		LPPB061NFS-C-RC	Sulins Connector Solutions	Receptacle, 1.27mm, 6x1, Gold, SMT	Receptacle, 1.27mm, 6x1, SMT
39	J10	1		GRPBO41VWVR-RC	Sulins Connector Solutions	Header, 50mil, 4x1, Gold, TH	TH Header, 1.27 mm, 4x1, Straight
40	L2	1	100uH	ACT458-101-2P-TL003	TDK	Inductor, Ferrite, 100 uH, 0.15 A, 2 ohm, SMD	SMD, 4-Leads, Body 4.7 x 3.7 mm
41	L7	1		7443833602	Wurth Electronics	2.2uH Shielded Molded Inductor 2.4A 67mOhm Max 2-SMD	SMD2
42	R1, R2, R4, R7, R16, R46, R49, R50, R54	9	0.0005	CSNL2512F1L500	Stackpole Electronics Inc	RES, 0.0005, 1%, 2 W, 2512	2512
43	R3	1	47.0k	CRCW060347K0FKEA	Vishay-Dale	RES, 47.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
44	R5, R27	2	2.10k	RT0603BRD072K1L	Yageo America	RES, 2.10 k, 0.1%, 0.1 W, 0603	0603
45	R6, R10, R34, R74	4	0	MCT060303D00002P500	VishayBeyschlag	RES, 0, 5%, 0.125 W, 0603	0603
46	R8, R9	2	0.004	CRF1206-FZ-R004ELF	Bourns	RES, 0.004, 1%, 1 W, AEC-Q200 Grade 0, 1206	1206
47	R14, R19, R21, R25	4	4.70k	RC0402FR-074K7L	Yageo America	RES, 4.70 k, 1%, 0.0625 W, 0402	0402
48	R15, R17, R20	3	200k	ERJ-8ENF2003V	Panasonic	RES, 200 k, 1%, 0.25 W, 1206	1206
49	R18, R24, R70, R72	4	10	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
50	R22, R23, R28, R29, R31, R76, R84, R85, R86, R89, R97, R98, R101, R102, R104, R105	16	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
51	R26, R30	2	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
52	R32, R35	2	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
53	R33, R36	2	0	CRCW1020603K0KEAIF	Vishay-Dale	RES, 60, 10%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
54	R67	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
55	R11	1		TMP6131DECR	Texas Instruments	Thermistor, DECC002A (X1SON-2)	DECC002A
56	T1	1		POS052-V-2R0MH-W4	IL	Transformer 25:3 80u45x1.5mm	VF-PWR_70MM0_83MM
57	U1	1		INA214A4IDOF	Texas Instruments	4-V to 110-V, Bidirectional, Ultra-Precise Current Sense Amplifier With Internal PTH Rejection	SOT-23-8
58	U2	1		OPA320ADBVR	Texas Instruments	Precision, 20 MHz, 0.9 pA Ib, RRIO, CMOS Operational Amplifier, 1.8 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV5), Green (RoHS & no Sb/Br)	DBV0005A
59	U3	1		TLV9062DR	Texas Instruments	10-MHz, Low-Noise, RRIO, CMOS Operational Amplifier for Cost-Sensitive Systems, D0008A (SOIC-8)	D0008A
60	U4	1		AMC1302QDWWRQ1	Texas Instruments	Precision Reinforced Isolated Amplifier for Current Sensing, DWV0008A (SOIC-8)	DWV0008A
61	U5	1		AMC0311RDWVR	Texas Instruments	Automotive, Precision, 2-V Input, Basic and Reinforced Isolated Amplifiers With Single-Ended, Ratiometric Output	SOIC8
62	U6	1		INA199A2CKT	Texas Instruments	25-V, 8-Directional, Zero-Drift, Low- or High-Side, Voltage Output Current Shunt Monitor, DCK0006A (SOT-SC70-5)	DCK0006A
63	U7	1		TLV7633DRVT	Texas Instruments	Linear Voltage Regulator IC, 1 Output, 1A 8-WSO (2x2)	WSO6N6
64	U8	1		ISO7742DWR	Texas Instruments	5.7 kVrms, 100 Mbps, Reinforced 4-Channel 2/2 Digital Isolator, DW0016B (SOIC-16)	DW0016B
65	U9	1		TCAN1042HDBRQ1	Texas Instruments	Automotive Fault Protected CAN Transceiver With Flexible Data-Rate, DRB0008F (VSON-8)	DRB0008F
66	U10	1		TMCS1138B2QV0GR	Texas Instruments	TMCS1138B2QV0GR	SOIC10
67	U16	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/Br)	DSG0008A
68	U19	1		TLV7133PQDBVRQ1	Texas Instruments	Capacitor-Free, 150-mA, LDO Regulator w/ Foldback Current Limit, DBV0005A (SOT-23-5)	DBV0005A
69	U20	1		REF203AIDDCR	Texas Instruments	Low-Drift, Low-Power, Dual-Output VREF and VREF/2 Voltage Reference, DCC0005A (SOT-23-T-5)	DCC0005A