

Variant: 001
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PMP41155_Main REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	Package/Reference
1	C200	1	0.01µF	C0402C100K40ACTU	Kemet	CAP. CERM. 0.01 µF, 16 V, +/- 10%, X7R, 0402	0402
2	C201, C211	2	68pF	68018A80JAY2A	AVX	CAP. CERM. 68 pF, 50 V, +/- 5%, COG/NPO, 0603	0603
4	C203	1	0.1µF	06031C104K41AA	Wurth Elektronik	CAP. CERM. 0.1 µF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	C204, C205, C212, C213	4	47pF	GRM1555C1H470FA01D	MuRata	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0805, XRR, 4.7pF, 16VDC	0402
6	C206, C214	2	1µF	C1608X7R1C106K080AC	TDK	CAP. CERM. 1 µF, 16 V, +/- 10%, X7R, 0805	0603
7	C207, C215	2	0.1µF	GRM1555R70104KA01D	MuRata	CAP. CERM. 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
8	C208, C216, C220	3	10µF	C2008C10R5GAC1787	Kemet	CAP. CERM. 10 µF, 50 V, +/- 1%, C0G/NPO, 0603	0603
9	C209, C219	2	10µF		Wurth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0402, X7R, 10µF, 50VDC	0402
10	C210, C218, C224, C231, C233, C406, C411	7	0.1µF	GRM1555R70104KA01D	MuRata	CAP. CERM. 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
11	C217	1	1µF	SCM188F71C105KA64	MuRata	CAP. CERM. 1 µF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
12	C221, C235, C236	3	10µF	90010R100KAT2A	KYOCERA AVX	10 µF +/-10% 50V X7R Ceramic Capacitor X7R 0603 (1608 Metric)	0603
13	C222	1	470pF	C0603C470K40ACTU	Kemet	CAP. CERM. 470 pF, 16 V, +/- 10%, X7R, 0603	0603
14	C223, C225, C226, C227, C228, C229	6	10pF	06032C100KA2ZA	AVX	CAP. CERM. 10 pF, 10 V, +/- 10%, X7R, 0603	0603
15	C230, C232, C234, C405, C401, C402, C421, C422, C423, C424	10			Wurth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0402, X7R, 10µF, 10VDC	0402
16	C300, C301, C302	3	100µF	EMV1E30A1R1011MKE05	Chem-Con	CAP. AL. 100 µF, 63 V, +/- 20%, 0.15 ohm, SMD	K50
17	C303	1	22µF	EP3P12250125	Radco	CAP. ALUM POLY 22µF 50V SMD	SMT Radial D
18	C307	1	4.7µF	GR220C02P475K9E01L		CAP CER 4.7µF 100V X7R 1206	1206
19	C403	1	100µF	180505C11	Wurth Electronics	1 µF +/-10% 100V Ceramic Capacitor X7R 0603 (1608 Metric)	0603
20	C404	1	1µF	NAF210R2T2105K0L	AVX	CAP. CERM. 1 µF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
21	C405	1	0.1µF	SRM188F71E104KA01D	MuRata	CAP. CERM. 0.1 µF, 25 V, +/- 10%, X7R, 0603	0603
22	C407, C408, C409, C410, C412, C413, C414, C415, C416, C417, C418, C419, C420	13		C0603C105K80ACTU	Kemet	CAP. CERM. 0.01µF 50V X7R 10% Thick SMD 0603 125°C T/R	0603
23	C425, C426	2	220pF	C0603221K5RAC1U	Kemet	CAP. CERM. 220 pF, 50 V, +/- 10%, X7R, 0603	0603
24	C500	1	100µF	RA551A115	Neoplasia	Node, Storage, 100 V, 0.2 A, SMD-353	SMD-353
25	C501	1	100µF	RAV50B115	Neoplasia	Node, Switching, 100 V, 0.2 A, SOT-363	SOT-363
26	C504	1	80V	MMUACZ1411U	ON Semiconductor	300mV, 80V, 1 A, SMD	1406
27	C505, F301, F302, F303, F304, F305	6		UNNA5M5C050F-2	Infineon	Fuse, Resettable, 100 A, 24 VDC, SMD	1815
28	C506, C507	2	0.88104E+11		Wurth Elektronik	FFC Connector, 1mm, 4 Pos, R/A, Tin, SMT	FFC Connector, 1mm, 4 Pos, R/A, SMT
29	C502	1		HSBC8-180-011-DV-A-BL	Samtec	C2000 controlCARD-1208BSEC connector, SMT	C2000 pin headers
30	C503	1		HSBC8-130-011-DV-A	Samtec	C2000 controlCARD-1808BSEC (80-pin) adapter connector, SMT	C2000 pin headers
31	J400	1		5051101092	Molex	FFC Connector, 0.5mm, 10 Pos, R/A, SMT	FFC Connector, 0.5mm, 10 Pos, R/A, SMT
32	Q200, Q207, Q209, Q210, Q211, Q400, Q401, Q402	8		DN7002L3A-1P	MCC	N-Channel 60 V 280mA (Ta) 200mV Surface Mount DFN08-3	DFN3
33	Q201, Q202, Q203, Q204	4	45 V	BCX71K	Infineon Technologies	Transistor, PNP, 45 V, 0.1 A, SOT-23	SOT-23
34	Q209	1	40 V	MMBT4403	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.6 A, SOT-23	SOT-23
35	Q206, Q208	2	50 V	MMUACZ1411U	ON Semiconductor	Transistor, NPN, 40 V, 0.1 A, AEC-Q101, SOT-23	SOT-23
36	R403	1	0.1W	CRCW0603200K0500ACTA1	Infineon	N-Channel 80 V 31A 100, 332A 100, 332A 100, 333W 100 (Tq) Surface Mount PGT-TFN-A402	1719A-9
37	R200	1	5.49k	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 5.49 k, 1%, 0.063 W, AEC-Q200 Grade 3, 0402	0402
38	R201	1	15.0k	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 15.0 k, 1%, 0.063 W, AEC-Q200 Grade 3, 0402	0402
39	R202, R409	2	10	NCCH102P1180	Bohm	RES, 10 Ω, 1%, 0.063 W, 0402	0402
40	R203, R205, R410	5	0	RC0603JR-0700RL	Yageo America	RES, 0 Ω, 5%, 0.1 W, 0603	0603
41	R204, R206, R211, R213	4	100	RC0603FR-07100RL	Yageo America	RES, 100 Ω, 1%, 0.1 W, 0603	0603
42	R207, R214, R239, R245, R246, R247, R402, R410, R418, R419, R420, R421, R423, R424, R430, R431, R432, R435, R443, R444, R445, R452, R456, R457, R458	25	10k	ERJ-UG2F1002X	Panasonic	10 kOhms ±1% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Anti-Sulfur Automotive AEC-Q200 Thick Film	0402
43	R208, R216	2	0.01k	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 0.01 k, 1%, 0.063 W, AEC-Q200 Grade 3, 0402	0402
44	R209	1	0.1W	RC0603FR-07100RL	Yageo	RES, 0.01 k, 1%, 0.1 W, 0603	0603
45	R215	1	1.57k	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 1.57 k, 1%, 0.063 W, AEC-Q200 Grade 3, 0402	0402
46	R217	1	5.0k	ERJ-UG2F1501X	Panasonic	RES, 5.0 k, 1%, 0.1 W, AEC-Q200 Grade 3, 0402	0402
47	R218, R223, R231, R236	4	330	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 330 Ω, 5%, 0.063 W, AEC-Q200 Grade 3, 0402	0402
48	R220, R222, R219, R239	2	0	RC0603JR-0700RL	Yageo	RES, 28.7 k, 1%, 0.1 W, 0603	0603
49	R224, R225	2	28.7k	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 28.7 k, 1%, 0.1 W, 0603	0603
50	R227, R228	2	0.01k	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 0.01 k, 1%, 0.1 W, 0603	0603
51	R227	1	0.01k	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 0.01 k, 1%, 0.1 W, 0603	0603
52	R228, R229	2	0.01k	RT0603BR070K01L	Yageo America	RES, 0.01 k, 0.1%, 0.1 W, 0603	0603
53	R232, R233, R270, R271, R266, R267	6	0	RC0603JR-1300RP	Yageo	Resistor Thick Film 0603 Jumper 0 Ohm ±5% 1/10W Molded Paper T/R	0603
54	R235	1	0Ω	CR0603-10W-000T	Verikal	0 Ohms Jumper 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) - Thick Film	0603
55	R236, R241, R248	3	2.10k	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 2.1 k, 1%, 0.063 W, AEC-Q200 Grade 3, 0402	0402
56	R238, R240, R242	3	0	CR0201PAMR3001	NextGen Components	0 Ohms Jumper 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Thick Film	0201
57	R243	1	0	NSL06030000002E49	Vishay	0 Ohms Jumper Chip Resistor 0603 (1608 Metric) Metal Element	0603
58	R244	1	4.32k	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 4.32 k, 1%, 0.063 W, AEC-Q200 Grade 3, 0402	0402
59	R249, R256	2	3.3k	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, AEC-Q200 Grade 3, 0402	0402
60	R250, R258, R265, R408, R422, R437, R451	7	100k	RC0402JR-07100RL	YAGEO	100 kOhms ±5% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Moisture Resistant Thick Film	0402
61	R251, R254, R254, R256, R262, R263, R266, R412, R413, R428, R429, R433, R434, R435, R436, R446, R447, R448, R449	19	4.75k	RC0603FR-074K75L	Yageo	RES, 4.75 k, 1%, 0.1 W, 0603	0603
62	R253, R256	2	0	ERJ-UG2R000X	Panasonic	0 Ohms Jumper Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200 Thick Film	0402
63	R257, R264	2	120	CRCW0603200K0500ACTA1	Vishay-Dale	RES, 120 Ω, 5%, 0.063 W, AEC-Q200 Grade 3, 0402	0402
64	R260, R261, R268, R269, R400, R401, R402, R403, R404, R405, R414, R415, R416, R417, R425, R426, R427, R440, R441, R442, R453, R454, R455	23	0	JR0603K35E	Ohmite	0 Ohms Jumper 0.245W Chip Resistor 0605 (2012 Metric) - Metal Element	0605
65	R267	1	10.7k	RC0603FR-0710K7L	Yageo	RES, 10.7 k, 1%, 0.1 W, 0603	0603
66	R300, R301, R302, R303, R304, R305	6	400µ	PUBS21FN090AL	YAGEO	400 µOhms ±1% 5W Chip Resistor Nonstandard Automotive AEC-Q200, Current Sense, Moisture Resistant Metal Element	3921
67	R306	1	100k	RC0603FR-07100K	Yageo	100k ±1% 0.063W 0402 Thick Film Chip Resistor AEC-Q200 compliant	0402
68	R307	1	100k	RC0603FR-07100K	Yageo	RES, 100k, 1%, 0.063 W, 0402	0402
69	R411, R438, R450	3	20k	ERJ-2GE200X	Panasonic	RES, 20 k, 5%, 0.1 W, AEC-Q200 Grade 3, 0402	0402
70	U1400	1	0	SGS80180102AG070	TDK	Integrator NTC, 50 ohm, ±0.1%, 0.125 W, 5mm	01254H16.5mm
71	U201	1	0	INA26A400F	Texas Instruments	-4V to 110-V, Bidirectional, 1-MHz, 5V/us, Ultra-Precise Current Sense Amplifier, SOT23-6	SOT23-6
72	U201	1	0	TLV279T-Q1	Texas Instruments	Automotive, High-Voltage, Precision, Rail-to-Rail In, Rail-to-Rail Out Op Amp	VSSOP8
73	U202	1	0	INA26A300F	Texas Instruments	-4V to 110-V, Bidirectional, 1-MHz, 5V/us, Ultra-Precise Current Sense Amplifier, SOT23-6	SOT23-6
74	U204	1	0	TLV1062DR	Texas Instruments	Amplifier, SOT23-6	SOT23-6
75	U206	1	0	SN65HVD23D	Texas Instruments	15-MHz, Low-Noise, RING, CMOS Operational Amplifier for Cost-Sensitive Systems, 00000A (SOIC-8)	00000A
76	U207	1	0	SN65HVD23D	Texas Instruments	1.3V CAN Transceiver with Sleep Mode, 6 mA, -40 to 125 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br)	00000A
77	U207	1	0	LM5026M1-1NCPB	Texas Instruments	3.3 V Supply RS-485 with IEC ESD Protection, 20 Mbps, -40 to 125 degC, 8-pin SOIC (D), 00000A, Tape and Reel	00000A
77	U207	1	0	LM5026M1-1NCPB	Texas Instruments	High-Side Off-Reg FET Controller, DCC-00000A (SOT-23-7)	DCC-00000A
78	U201, U402	2	0	SGS80180102AG070	ST Microelectronics	DC-DC PFCM 1M 100 1MHz BSC	SGS80180102AG070