

Variant: 001
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PMP41155_PM REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCBI	1		PMP41155_PM	Any	Printed Circuit Board	
2	C1, C2	2	1800pF	GRM188R72A182KA01D	MuRata	CAP, CERM, 1800 pF, 100 V, +/- 10%, X7R, 0603	0603
3	CC1, CC2, CC3, CC4, CC5, CC6, CC23, CC24, CC25, CC26, CC27, CC32, CC33, CC34, CC35, CC36, CC37, CC38, CC39, CC40, CC43, CC48	22	4.7uF	GRJ31CC72A475KE01L		CAP CER 4.7UF 100V X7S 1206	1206
4	CC7, CC8, CC9, CC10, CC11, CC12, CC13, CC14, CC15, CC16, CC17, CC18, CC19, CC20, CC21, CC22	16	0.022uF	CGA3E2X7R2A223K080AA	TDK	CAP, CERM, 0.022 uF, 100 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	CC28, CC29, CC41, CC42, CC63, CC64, CC65, CC66	8	0.1uF	GCM155R71C104JA55D	MuRata	CAP, CERM, 0.1 uF, 16 V,+/- 5%, X7R, AEC-Q200 Grade 1, 0402	0402
6	CC30, CC31, CC67, CC68	4	47uF	8.65082E+11	Würth Electronics	Aluminum Electrolytic Capacitor 47uF 20% 80V 10.3x10.3x10.5mm SMT	SMT_CAP_10MM3_10MM3
7	CC44	1	47uF	GRM21BR61A476ME15L	MuRata	CAP, CERM, 47 uF, 10 V,+/- 20%, X5R, 0805	0805
8	CC45	1	2.2uF	GRM219R61E225KA12D	MuRata	CAP, CERM, 2.2 uF, 25 V,+/- 10%, X5R, 0805	0805
9	CC46	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
10	CC47	1	68pF	06035A680JAT2A	AVX	CAP, CERM, 68 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
11	CC49	1	1000pF	GRM1885C1H102JA01D	MuRata	CAP, CERM, 1000 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
12	CC50, CC51	2	47pF	C0603C470J5GACTU	Kemet	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
13	CC52	1	2200pF	GRM188R61H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V,+/- 10%, X5R, 0603	0603
14	CC53, CC54	2	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
15	CC55	1	47uF	GRM32ER61C476KE15L	MuRata	CAP, CERM, 47 uF, 16 V, +/- 10%, X5R, 1210	1210
16	CC56	1	1uF	C0805C105K3RACTU	Kemet	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	0805
17	CC57	1	22uF	CL21A226KQNNNE	Samsung Electro-Mechanics	CAP, CERM, 22 uF, 6.3 V, +/- 10%, X5R, 0805	0805
18	CC58	1	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1uF, 6.3V, +/-10%, X7R, 0402	0402
19	CC59	1	0.01uF	C0402C103K4RACTU	Kemet	CAP, CERM, 0.01 uF, 16 V,+/- 10%, X7R, 0402	0402
20	CC60	1	22nF	CL10B223KB8NNNC	Samsung	Cap Ceramic 22nF 50V X7R ±10% Pad SMD 0603 +125°C T/R	0603
21	CC61	1	820pF	GRM1885C1E821JA01D	MuRata	CAP, CERM, 820 pF, 25 V, +/- 5%, C0G/NP0, 0603	0603
22	CC62	1	0.22uF	08053C224MAT2A	AVX	CAP, CERM, 0.22 uF, 25 V, +/- 20%, X7R, 0805	0805
23	D1	1	100V	BAS316,115	Nexperia	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
24	DC1, DC7	2		NRVB0540T1G	On Semiconductor	Diode Schottky 40V 500mA Surface Mount SOD-123	SOD-123
25	DC2, DC3, DC4	3		STPS30M100DJF-TR	STMicroelectronics	Diode 100 V 30A Surface Mount PowerFlat™ (5x6)	PowerFlat6
26	DC5, DC6	2	5.6V	MMSZ4690-E3-08	Diode-Semiconductor	Diode, Zener, 5.6 V, 500 mW, SOD-123	SOD-123
27	LC1	1		TBD	TBD	TBD	18.3x8.9x18.2mm
28	QC1, QC2, QC3, QC4, QC5, QC6, QC7, QC8	8		LMG3100R017	Texas Instruments	100-V, 64-A GaN with Integrated Driver	VQFN-FCRLF15
29	R1, R2, R7, R8	4				RES Thick Film, 3.01Ω, 1%, 0.063W, 200ppm/°C, 0402	
30	R3, R4	2	2.55	CRCW12062R55FKEA	Vishay-Dale	RES, 2.55, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
31	R5	1	681k	CRCW0603681KFKEA	Vishay-Dale	RES, 681 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
32	R6	1	13.0k	CRCW060313K0FKEA	Vishay-Dale	RES, 13.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
33	RC1, RC2, RC26, RC27	4	3.3	RC1206FR-073R3L	Yageo America	RES, 3.30, 1%, 0.25 W, 1206	1206
34	RC3, RC4, RC28, RC29	4	0.002	KRL2012E-M-R002-G-T5	Susumu Co Ltd	RES, 0.002, 2%, 1 W, 0508	0508
35	RC5, RC6, RC18	3	0	JR0805X35E	Ohmite	0 Ohms Jumper 0.245W Chip Resistor 0805 (2012 Metric) - Metal Element	0805
36	RC7	1	270k	CRCW0603270KJNEA	Vishay-Dale	RES, 270 k, 5%, 0.1 W, 0603	0603
37	RC8, RC10	2	100	RC0603FR-07100RL	Yageo America	RES, 100, 1%, 0.1 W, 0603	0603
38	RC9	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
39	RC11	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
40	RC12	1	10.7k	CRCW060310K7FKEA	Vishay-Dale	RES, 10.7 k, 1%, 0.1 W, 0603	0603
41	RC13, RC14, RC16, RC19	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
42	RC15	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
43	RC17	1	220k	RC0402FR-07220KL	Yageo America	RES, 220 k, 1%, 0.0625 W, 0402	0402
44	RC20, RC21	2	30.0k	CRCW040230K0FKED	Vishay-Dale	RES, 30.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
45	RC22	1	2.87k	RK73H1ETTP2871F	KOA Speer	2.87 kOhms ±1% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200, Moisture Resistant Thick Film	0402
46	RC23	1	8.25k	CRCW06038K25FKEA	Vishay-Dale	RES, 8.25 k, 1%, 0.1 W, 0603	0603
47	RC24	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
48	RC25	1	158k	CRCW0603158KFKEA	Vishay-Dale	RES, 158 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
49	UC1	1		LM5177DCPR	Texas Instruments	Wide VIN Bidirectional 4 Switch Buck-Boost Controller	HTSSOP38
50	UC2	1		TPSM863252RDX	Texas Instruments	3V to 16 V Input, 3-A Synchronous Step-Down Voltage Regulator Module, QFN-FCMOD7	QFN-FCMOD7