

PMP41155_AUX REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC B1	1		PMP41155_AUX	Any	Printed Circuit Board	
2	C1, C2	2	1800pF	GRM188R72A182KA01D	MuRata	CAP, CERM, 1800 pF, 100 V, +/- 10%, X7R, 0603	0603
3	C3, C12	2	0.1uF	CGA2B3X7R1E104K050BB	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
4	C4, C5, C6, C7	4	4.7uF	CGA1206X7R475M101NT	HRE	100V 4.7uF X7R ±20% 1206 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS	1206
5	C8	1	4.7uF	CGA4J3X7R1C475K125AE	TDK	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
6	C9	1	47uF	EMK325ABJ476KMH	Taiyo Yuden	47uF ±10% 16V Ceramic Capacitor X5R 1210 (3225 Metric)	1210
7	C10	1	47pF	CGA2B2NP01H470J050BA	TDK	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 0, 0402	0402
8	C11	1	6800pF	CGA2B2X7R1H682K050BA	TDK	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
9	C13, C14, C22	3	0.1uF	GRM152B30J104KE19	MuRata	CAP, CERM, 0.1 uF, 6.3 V, +/- 10%, B, 0402	0402
10	C15, C16	2	270uF	APXJ160ARA271MF80J	Chemi-Con	270 uF 16 V Aluminum - Polymer Capacitors Radial, Can - SMD 10mOhm 15000 Hrs @ 105°C	SMT_CAP_6MM6_6M M6
11	C19	1	47uF	GRM32ER61C476KE15L	MuRata	CAP, CERM, 47 uF, 16 V, +/- 10%, X5R, 1210	1210
12	C20	1	1uF	C0805C105K3RACTU	Kemet	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	0805
13	C21	1	22uF	CL21A226KQNNNE	Samsung Electro-Mechanics	CAP, CERM, 22 uF, 6.3 V, +/- 10%, X5R, 0805	0805
14	C23	1	0.01uF	C0402C103K4RACTU	Kemet	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402	0402
15	CC1, CC2, CC3, CC4, CC5, CC6, CC19, CC20, CC21, CC22, CC23, CC27, CC28, CC29, CC34, CC37	16	4.7uF	GRJ31CC72A475KE01L		CAP CER 4.7UF 100V X7S 1206	1206
16	CC7, CC8, CC9, CC10, CC11, CC12, CC13, CC14, CC15, CC16, CC17, CC18	12	0.022uF	CGA3E2X7R22A223K080AA	TDK	CAP, CERM, 0.022 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
17	CC24, CC25, CC30, CC31	4	0.1uF	C0402C104K4RACAUTO	Kemet	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
18	CC26	1	22uF	63PFV22M6.3X8	Rubycon	CAP ALUM POLY HYB 22UF 63V SMD	SMT Radial D
19	CC32	1	47uF	GRM21BR61A476ME15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 20%, X5R, 0805	0805
20	CC33	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
21	CC35	1	2.2uF	GRM219R61E225KA12D	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X5R, 0805	0805
22	CC36	1	68pF	06035A680JAT2A	AVX	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
23	CC38	1	1000pF	GRM1885C1H102JA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
24	CC39, CC40	2	47pF	GRM1555C1H470FA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
25	CC41	1	2200pF	GRM188R61H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X5R, 0603	0603
26	CC42, CC43	2	100nF	0603YC104JAT2A	KYOCERA AVX	0.1 uF ±5% 16V Ceramic Capacitor X7R 0603 (1608 Metric)	0603
27	CC44	1	22nF	CL10B223KB8NNNC	Samsung	Cap Ceramic 22nF 50V X7R ±10% Pad SMD 0603 +125°C T/R	0603
28	CC45	1	820pF	GRM1885C1E821JA01D	MuRata	CAP, CERM, 820 pF, 25 V, +/- 5%, C0G/NP0, 0603	0603
29	CC46	1	0.22uF	08053C224MAT2A	AVX	CAP, CERM, 0.22 uF, 25 V, +/- 20%, X7R, 0805	0805
30	DC1	1		NRVB0540T1G	On Semiconductor	Diode Schottky 40V 500mA Surface Mount SOD-123	SOD-123
31	DC2, DC3, DC4, DC7	4		STPS30M100DJF-TR	STMicroelectronics	Diode 100 V 30A Surface Mount PowerFlat™ (5x6)	PowerFlat6
32	DC5, DC6	2	5.6V	MMSZ4690-E3-08	Vishay-Semiconductor	Diode, Zener, 5.6 V, 500 mW, SOD-123	SOD-123
33	J1	1		831-87-004-10-001101	Preci-Dip	Conn Socket Strip SKT 4 POS 2mm Solder ST Thru-Hole Box	CONN SOCKET 4
34	L1	1	3.3uH	XGL6060-332MEC	Coilcraft	Shielded Power Inductors 3.3uH 20% tol, 6.5mOhm 16.6A	SMT_6MM51_6MM71
35	LC1	1		TBD	TBD	TBD	18.3x8.9x18.2mm
36	QC1, QC2, QC3, QC4	4		LMG3100R017	Texas Instruments	100-V, 64-A GaN with Integrated Driver	VQFN-FCRLF15
37	R1, R2	2				RES Thick Film, 3.01Ω, 1%, 0.063W, 200ppm/°C, 0402	
38	R3, R4	2	2.55	CRCW12062R55FKEA	Vishay-Dale	RES, 2.55, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
39	R5	1	681k	CRCW0603681KFKEA	Vishay-Dale	RES, 681 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
40	R6, R8, R9, R10	4	0	D1LPC0402CJUMPF-T10	Thin Film Technology	0 Ohms Jumper Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Current Sense, Flame Retardant Coating, Moisture Resistant, Safety Metal Foil	0402
41	R7	1	13.0k	CRCW060313K0FKEA	Vishay-Dale	RES, 13.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
42	R11	1	100k	RMCF0402FT100K	Stackpole Electronics Inc	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
43	R12	1	0.005	KRL2012M-R005-F-T1	Susumu Co Ltd	RES, 0.005, 1%, 1 W, AEC-Q200 Grade 0, 0508	0508
44	R13	1	5.76k	CRCW04025K78FKED	Vishay-Dale	RES, 5.76 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
45	R14	1	49.9k	MCR01MZPF4992	Rohm	RES, 49.9 k, 1%, 0.063 W, 0402	0402
46	R15, RC5	2	71.5k	CRCW040271K5FKED	Vishay-Dale	RES, 71.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
47	R16	1	20.5k	CRCW040220K5FKED	Vishay-Dale	RES, 20.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
48	R17, R19	2	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
49	R18	1	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
50	R20	1	220k	RC0402FR-07220KL	Yageo America	RES, 220 k, 1%, 0.0625 W, 0402	0402
51	R21, R22	2	30.0k	CRCW040230K0FKED	Vishay-Dale	RES, 30.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
52	RC1, RC2	2	3.3	RC1206FR-073R3L	Yageo America	RES, 3.30, 1%, 0.25 W, 1206	1206
53	RC3	1	0.002	KRL2012E-M-R002-G-T5	Susumu Co Ltd	RES, 0.002, 2%, 1 W, 0508	0508
54	RC4, RC14	2	0	JR0805X35E	Ohmite	0 Ohms Jumper 0.245W Chip Resistor 0805 (2012 Metric) - Metal Element	0805
55	RC6, RC8	2	100	RC0603FR-07100RL	Yageo America	RES, 100, 1%, 0.1 W, 0603	0603
56	RC7	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
57	RC9	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
58	RC10	1	10.7k	CRCW060310K7FKEA	Vishay-Dale	RES, 10.7 k, 1%, 0.1 W, 0603	0603
59	RC11, RC12, RC13, RC15	4	0	CRCW0603000020EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
60	RC16	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
61	RC17	1	8.25k	CRCW06038K25FKEA	Vishay-Dale	RES, 8.25 k, 1%, 0.1 W, 0603	0603
62	RC18, RC19	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
63	U1	1		LM70808RXXRQ1	Texas Instruments	80-V, 8-A Synchronous DC/DC Buck Converter With Ultra-Low IQ, VQFN29	VQFN29
64	U2	1		TLV71333PQDBVRQ1	Texas Instruments	Capacitor-Free, 150-mA, LDO Regulator w/ Foldback Current Limit, DBV0005A (SOT-23-5)	DBV0005A
65	U3	1		TPSM863252RDX	Texas Instruments	3-V to 17-V Input, 3-A Synchronous Buck Module, QFN-FCMOD7	QFN-FCMOD7
66	UC1	1		LM5177DCPR	Texas Instruments	Wide VIN Bidirectional 4 Switch Buck-Boost Controller	HTSSOP38