

PMP41063 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	330pF	GRM31A7U3A331JW31D	MuRata	CAP. CERM. 330 pF, 1000 V, +/- 5%, U2J, 1206	1206
2	C2	1	470pF	VJ1206A471JXGAT5Z	Vishay-Vitramon	CAP. CERM. 470 pF, 1000 V, +/- 5%, COG/NPO, 1206	1206
3	C3	1	22uF	C3216X5R1V226M160AC	TDK	CAP. CERM. 22 uF, 35 V, +/- 20%, X5R, 1206	1206
4	C6, C24	2	10uF	GRM21BR6YA106KE43L	MuRata	CAP. CERM. 10 uF, 35 V, +/- 10%, X5R, 0805	0805
5	C7	1	100pF	8.85012E+11	Würth Elektronik	CAP. CERM. 100 pF, 50 V, +/- 5%, COG/NPO, 0805	0805
6	C8	1	4.7pF	C885012006030	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, NPO, 4.7pF, 25VDC	
7	C9, C17	2	2200pF	VY2222M35Y5UG6TV5	Vishay-Bcomponents	CAP. CERM. 2200 pF, X1 440 VAC/Y2 300 VAC, +/- 20%, Y5U, Body9x5mm	Body9x5mm
8	C10	1	1.5pF	1206Y1K01P50DAR	Knowles Syfer	CAP. CERM. 1.5 pF, 1000 V, COG/NPO, 1206	1206
9	C11	1	4.7uF	GRM31CR71E475KA88L	MuRata	CAP. CERM. 4.7 uF, 25 V, +/- 10%, X7R, 1206	1206
10	C12	1	1uF	C1608X7R1E105K080AB	TDK	CAP. CERM. 1 uF, 25 V, +/- 10%, X7R, 0603	0603
11	C13	1	0.1uF	GRM21BR71E104KA01L	MuRata	CAP. CERM. 0.1 uF, 25 V, +/- 10%, X7R, 0805	0805
12	C16	1	2200pF	C0805C222K2RAC	Kemet	CAP. CERM. 2200 pF, 200 V, +/- 10%, X7R, 0805	0805
13	C18, C20, C21, C22	4	330uF	EEHZC1E331P	Panasonic	CAP. Polymer Hybrid, 330 uF, 25 V, +/- 20%, 20 ohm, 10x10 SMD	10x10
14	C19	1	22pF	GCG1885G1H220JA01D	Murata	AgPd Termination Conductive Glue Mounting Chip Multilayer Ceramic Capacitors for Automotive 22pF with 5% as tolerance, 50V X8G 30ppm/C, 0603 Package	0603
15	C25	1	0.22uF	GJC188R71H224KA01D	MuRata	CAP. CERM. 0.22 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
16	C26, C33	2	120nF	R75TN312050H3J	KEMET	0.12 uF Film Capacitor 650V 1600V (1.6kV) Polypropylene (PP), Metallized Radial	RADIAL
17	C27	1	5uF	MKP1848C55012JP2	VISHAY	Film Capacitor THT 5uF, 1200V	
18	D1, D2	2	1000V	RS1MB-13-F	Diodes Inc.	Diode, P-N, 1000 V, 1 A, SMB	SMB
19	D4	1	1000V	RS1MWF-7	Diodes Inc.	Diode, Fast Rectifier, 1000 V, 1 A, SOD-123F	SOD-123F
20	D5	1	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
21	D6, D10	2	300V	P6KE350A	Fairchild Semiconductor	Diode, TVS, Unil, 300 V, 482 Vc, DO-15	DO-15
22	D7	1	100V	STPS20M100SFP	STMicroelectronics	Diode, Schottky, 100 V, 20 A, TH	TO-220FP
23	D8	1	12V	MMS24699-HE3-08	Vishay-Semiconductor	Diode, Zener, 12 V, 500 mW, AEC-Q101, SOD-123	SOD-123
24	D11	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
25	D12	1	12V	MMS24699T1G	ON Semiconductor	Diode, Zener, 12 V, 500 mW, SOD-123	SOD-123
26	D13, D14, D17, D18	4	130V	UDZLVFHTe-17130	Rohm	Diode, Zener, 130 V, 200 mW, SOD-323F, AEC-Q101	SOD-323F
27	D15	1	200V	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200 V, 0.2 A, SOD-123	SOD-123
28	D16	1	27V	MMS25254BS-7-F	Diodes Inc.	Diode, Zener, 27 V, 200 mW, SOD-323	SOD-323
29	D19, D20	2	18V	SZMM3Z18VST1G	ON Semiconductor	Diode, Zener, 18 V, 300 mW, AEC-Q101, SOD-323	SOD-323
30	D22	1		SMCJ300A	Littelfuse Inc	486V Clamp 3.1A Ipp Tvs Diode Surface Mount DO-214AB (SMCJ)	DO214AB
31	F1	1		0443001.DR	Littelfuse	Fuse, 1 A, 250VAC/VDC, SMD	FUSE
32	HS1, HS2, HS3	3		513102B02500G	Aavid	Extruded heat sink with radial fins	10.1x3.12x3.13mm Heat Sink TO-220 Aluminum
33	J1	1		1776275-2	TE Connectivity	Terminal Block, 3.5mm, 2x1, Tin, TH	Terminal Block, 3.5mm, 2x1, TH
34	J2	1		1732720	Phoenix Contact	Terminal Block, 2x1, 7.62mm, TH	15.21x18x12.8mm
35	L1	1	10mH	744821110	Würth Elektronik	Coupled inductor, 10 mH, 0.7 A, 0.35 ohm, TH	15 x 18 x 7.5mm
36	L2	1	1uH	744777001	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 1 uH, 8 A, 0.0084 ohm, SMD	SMD
37	L3	1	1mH	744821201	Würth Elektronik	Coupled inductor, 1 mH, 2 A, 0.045 ohm, TH	15 x 18 x 7.5mm
38	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
39	LOGO1, LOGO2, LOGO3	3		DANGER HIGH VOLTAGE		IEC 61010-1 High Voltage Warning	
40	PCB1	1		PMP41063	Any	Printed Circuit Board	
41	Q1, Q2	2	950V	STF2N95K5	STMicroelectronics	MOSFET, N-CH, 950 V, 2 A, TO-220FP	TO-220FP
42	Q3, Q4	2	600V	BSS126H6906XTSA1	Infineon Technologies	MOSFET, N-CH, Depletion Mode, 600 V, 0.021 A, SOT-23, AEC-Q101	SOT-23
43	Q5	1	60V	NX7002AK.215	Nexperia USA Inc	MOSFET, N-CH, 60 V, 0.19 A, SOT-23	SOT-23
44	R1, R5	2	3.01Meg	CRCW12063M01FKEA	Vishay-Dale	RES, 3.01 M, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
45	R3	1	142k	RT0603BRD07142KL	Yageo America	RES, 142 k, 0.1%, 0.1 W, 0603	0603
46	R4, R6, R10, R13, R19, R21	6	1.00Meg	ERJ-BENF1004V	Panasonic	RES, 1.00 M, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
47	R9	1	56k	CRCW060356KJNEA	Vishay-Dale	RES, 56 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
48	R16, R17, R18	3	549	RC1210FR-07549RL	Yageo	RES, 549, 1%, 0.5 W, 1210	1210
49	R22	1	1	RC1206FR-071RL	Yageo America	RES, 1.00, 1%, 0.25 W, 1206	1206
50	R26	1	10.5	CRCW080510R5FKEA	Vishay-Dale	RES, 10.5, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
51	R27	1	10	RC0805FR-0710RL	Yageo America	RES, 10.0, 1%, 0.125 W, 0805	0805
52	R28	1	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
53	R29	1	309	CRCW0603309RFKEA	Vishay-Dale	RES, 309, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
54	R30	1	17.2k	RT0805BRD0717K2L	Yageo America	RES, 17.2 k, 0.1%, 0.125 W, 0805	0805
55	R31	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, 0603	0603
56	R32, R33	2	1.54	CRCW08051R54FKEA	Vishay-Dale	RES, 1.54, 1%, 0.125 W, 0805	0805
57	R34	1	5.6	RC0805JR-075R6L	Yageo America	RES, 5.6, 5%, 0.125 W, 0805	0805
58	R35	1	20k	RC0603JR-0720KL	Yageo	RES, 20 k, 5%, 0.1 W, 0603	0603
59	R36	1	14.2k	RT0603BRD0714K2L	Yageo America	RES, 14.2 k, 0.1%, 0.1 W, 0603	0603
60	R38, R39	2	1.0Meg	CRCW06031M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
61	R40	1	5.1k	RC0603JR-075K1L	Yageo	RES, 5.1 k, 5%, 0.1 W, 0603	0603
62	R41	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
63	R42	1	130k	RT0603BRD07130KL	Yageo America	RES, 130 k, 0.1%, 0.1 W, 0603	0603
64	R43	1	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
65	R45	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
66	R137	1	16.0k	RC0603FR-0716KL	Yageo	RES, 16.0 k, 1%, 0.1 W, 0603	0603
67	T1	1		750345387	Würth		
68	U1	1		UCC28730DR	Texas Instruments	Zero Standby PSR Flyback Controller with CVCC and Wake-Up Monitoring, D0007A (SOIC-7)	D0007A
69	U2	1		UCC24650DBVR	Texas Instruments	200-V Wake-up Monitor for Fast Transient Primary-side Regulation, DBV0005A (SOT-23-5)	DBV0005A
70	D9, D21	0		1N4007-E3/53	Vishay	Diode Standard 1000 V 1A Through Hole DO-204AL (DO-41)	DO-41
71	R12	0	51.1k	RC0603FR-0751K1L	Yageo	RES, 51.1 k, 1%, 0.1 W, 0603	0603

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