

## PMP41009 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C3	3	47uF	UCS2G470MHD	Nichicon	CAP, AL, 47 uF, 400 V, +/- 20%, TH	16x25
C4	1	1000pF	C0805C102J5RACTU	Kemet	CAP, CERM, 1000pF, 50V, +/-5%, X7R, 0805	0805
C6	1	2200pF		Kemet	CAP, Film, 2200 pF, 1500 V,+/- 20%, TH	18x8.5mm
C8, C9	2	1000uF	EKM250EIJ102MJ16S	Chemi-Con	CAP, AL, 1000 uF, 25 V, +/- 20%, TH	D10xL16mm
C10	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
C11	1	2200pF	DE1E3RA222MN4AN01F	MuRata	CAP, CERM, 2200 pF, 250 V,+/- 20%, E, Dia 9mm	Dia 9mm
C12	1	0.022uF	C0603C223K5RACTU	Kemet	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
C13	1	0.22uF	C1608X7R1H224K080AB	TDK	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, 0603	0603
C15	1	220pF	C0805C221J5GACTU	Kemet	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0805	0805
C17	1	6800pF	GRM1885C1H682JA01D	MuRata	CAP, CERM, 6800 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C19	1	1uF	08055C105K4Z2A	AVX	CAP, CERM, 1 uF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C20	1	10uF	UVR1V100MDD1TA	Nichicon	CAP, AL, 10 uF, 35 V, +/- 20%, TH	5x11mm
D1, D2	2	300V	P6KE350A	Fairchild Semiconductor	Diode, TVS, Uni, 300 V, 482 Vc, DO-15	DO-15
D3	1	12V	MMSZ4699-HE3-08	Vishay-Semiconductor	Diode, Zener, 12 V, 500 mW, AEC-Q101, SOD-123	SOD-123
D4, D5	2	1000V	RS1MB-13-F	Diodes Inc.	Diode, P-N, 1000 V, 1 A, SMB	SMB
D6	1	120V	STPS20SM120ST	STMicroelectronics	Diode, Schottky, 120 V, 20 A, TH	TO-220AB
D7, D9	2	300V	P6KE300A	Fairchild Semiconductor	Diode, TVS, Uni,	DO-15
D8	1	150V	ES1C-13-F	Diodes Inc.	Diode, Superfast Rectifier, 150 V, 1 A, SMA	SMA
HS1, HS2, HS3	3		513102B02500G	Aavid	Extruded Heatsink with radial fins	Heat Sink TO-220 Aluminum
J1	1		1757242	Phoenix Contact	Header (Shrouded), 5.08 mm, 2x1, Tin, R/A, TH	Header, 5.08 mm, 2x1, R/A, TH
L3	1	1uH	7447462010	Würth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 1 uH, 8 A, 0.006 ohm, TH	D6 x 8.5mm
Q1, Q2	2	950V	STF2N95K5	STMicroelectronics	MOSFET N-CH 950V 2A TO220FP	TO-220FP
R1, R2, R3, R4, R5, R6	6	470k	RC1206FR-07470KL	Yageo America	RES, 470 k, 1%, 0.25 W, 1206	1206
R7, R8, R9, R10, R11, R12	6	200k	ERJ-8ENF2003V	Panasonic	RES, 200 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R14, R24	2	220k	PR03000202203JAC00	Vishay-Bccomponents	RES, 220 k, 5%, 3 W, D5.20xL16.70mm	D5.20xL16.70mm
R15	1	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R17	1	2.00k	CRCW12062K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.25 W, 1206	1206
R18	1	5.10k	RC0603FR-075K1L	Yageo America	RES, 5.10 k, 1%, 0.1 W, 0603	0603
R19	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R20, R30	2	750	CRCW0603750RFKEA	Vishay-Dale	RES, 750, 1%, 0.1 W, 0603	0603
R21	1	47.0	CRCW060347R0FKEA	Vishay-Dale	RES, 47.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R22	1	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R23	1	24.0k	RC0603FR-0724KL	Yageo	RES, 24.0 k, 1%, 0.1 W, 0603	0603
R25, R26, R38, R42	4	300k	RC1206FR-07300KL	Yageo America	RES, 300 k, 1%, 0.25 W, 1206	1206
R27	1	32.4k	CRCW060332K4FKEA	Vishay-Dale	RES, 32.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R28	1	5.10	RC1206FR-075R1L	Yageo America	RES, 5.10, 1%, 0.25 W, 1206	1206
R29	1	1.00	RC1206FR-071RL	Yageo America	RES, 1.00, 1%, 0.25 W, 1206	1206
R32	1	0	RC0805JR-070RL	Yageo America	RES, 0, 5%, 0.125 W, 0805	0805
R33	1	4.02k	CRCW06034K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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R34	1	39.0k	ERJ-8ENF3902V	Panasonic	RES, 39.0 k, 1%, .25 W, AEC-Q200 Grade 0, 1206	1206
R35	1	13.0k	ERJ-6ENF1302V	Panasonic	RES, 13.0 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R36	1	1.3	CRCW12061R30JNEA	Vishay-Dale	RES, 1.3, 5%, 0.25 W, 1206	1206
R37	1	4.7	CRCW08054R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.125 W, 0805	0805
R39, R40, R41	3	30.0	RC1206FR-0730RL	Yageo America	RES, 30.0, 1%, 0.25 W, 1206	1206
T1	1			Würth Elektronik Midcom Gmb	Transformer 10-Terminal, THT, Vertical, ER Style Bobbins, ER28/17	
TP1	1		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP2	1		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1		UCC28740QDRQ1	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A (SOIC-7)	D0007A
U2	1		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U3	1		TL431AQDBZRQ1	Texas Instruments	Automotive Catalog Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
C5, C16	0	100pF	GRM31A5C2J101JW01D	MuRata	CAP, CERM, 100 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206
C7	0	330pF	GRM31A7U2J331JW31D	MuRata	CAP, CERM, 330 pF, 630 V, +/- 5%, U2J, 1206	1206
C14	0	2200pF	C0603C222K5RAC	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C18	0	680pF	06031C681KAT2A	AVX	CAP, CERM, 680 pF, 100 V, +/- 10%, X7R, 0603	0603
R13	0	10	CRCW251210R0JNEG	Vishay-Dale	RES, 10, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R16	0	220	RC1206FR-07220RL	Yageo America	RES, 220, 1%, 0.25 W, 1206	1206

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