

## PMP40508 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	0.22uF	890324025027CS	Würth Elektronik	CAP, Film, 0.22 uF, 275 V, +/- 10%, TH	18x6x11.5mm
C2	1	100uF	EKXG401ELL101MMN3S	Chemi-Con	CAP, AL, 100 uF, 400 V, +/- 20%, TH	D18xL31.5mm
C3	1	2.2uF	C2012X7R1H225K125AC	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 0805	0805
C4	1	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
C5	1	47uF	EKMG350ELL470ME11D	Chemi-Con	CAP, AL, 47 uF, 35 V, +/- 20%, TH	D5xL11mm
C6	1	100pF	CL10B101KB8NNNC	Samsung Electro-Mechanics	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0603	0603
C7	1	2200pF	CK45-B3AD222KYNNA	TDK	CAP, CERM, 2200 pF, 1000 V, +/- 10%, B, D8.5xT5mm	D8.5xT5mm
C9	1	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C10	1	2200pF	C921U222MVVDBA7317	Kemet	CAP, CERM, 2200 pF, X1 400 VAC/Y1 400 VAC, +/- 20%, Y5V, D9xL13mm	D9xL13mm
C11	1	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
C12, C13	2	100pF	GRM21A5C2E101JW01D	MuRata	CAP, CERM, 100 pF, 250 V, +/- 5%, COG/NP0, 0805	0805
C14	1	680uF	EKZE250ELL681MJ20S	Chemi-Con	CAP, AL, 680 uF, 25 V, +/- 20%, TH	D10xL20mm
C15	1	1000uF	EKZE100ELL102MJ16S	Chemi-Con	CAP, AL, 1000 uF, 10 V, +/- 20%, TH	D10xL16mm
C16	1	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, 0603	0603
C19	1	220uF	EKZE250ELL221MHB5D	Chemi-Con	CAP, AL, 220 uF, 25 V, +/- 20%, TH	D8xL11.5
C20	1	470uF	EKZE100ELL471MHB5D	Chemi-Con	CAP, AL, 470 uF, 10 V, +/- 20%, TH	D8xL11.5
C21, C22	2	1uF	GRM216R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0805	0805
D1	1	600V	GBU4J-BP	Micro Commercial Component	Diode, P-N-Bridge, 600 V, 4 A, TH	GBU
D2	1	100V	1N4148WFL-G3-08	Vishay-Semiconductor	Diode, Switching, 100 V, 0.15 A, SOD-123FL	SOD-123FL
D3, D4	2	1000V	UF4007-TP	Micro Commercial Component	Diode, Ultrafast, 1000 V, 1 A, TH	DO-41
D5	1		SB540	ON Semiconductor / Fairchild	Diode, Schottky, 40 V, 5 A, TH	
D6	1		MBRF20L120CT	Taiwan Semiconductor	Diode, Schottky, 120 V, 20 A, TH	TO-220AB
D7	1		SB540	ON Semiconductor / Fairchild	Diode, Schottky, 40 V, 5 A, TH	DO-201AD
F1	1		RST 2.5-BULK	Bel Fuse	Fuse, 2.5 A, 250 VAC, TH	8.35x7.7x4mm
H1	1		531102B02500G	Aavid		
H2	1			Aavid		
J1	1		1-1318301-2	TE Connectivity	Polarized Header, 7.92 mm, 2x1, Tin, TH	TH Header
J2, J3	2		691214110002	Würth Elektronik	Terminal Block, 3.5mm, 2x1, Tin, TH	Receptacle, 3.5mm, 2x1, TH
JP1, JP4	2		923345-02-C	3M	Jumper Wire, 200mil spacing, Red, pkg of 200	200 mil Jumper Wire
JP2	1	0	RC1206JR-070RL	Yageo America	RES, 0, 5%, 0.25 W, 1206	1206
L1	1	20mH	744823220	Würth Elektronik	Coupled inductor, 20 mH, 1.5 A, 0.27 ohm, TH	13x22x17.5mm
L2, L3	2	2.2uH	7447462022	Würth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 2.2 uH, 4.3 A, 0.01 ohm, TH	D6 x 8.5mm
Q1	1		IPA65R400CEXKSA1	Infineon	MOSFET, N-CH, 650 V, 15.1 A, TO-220FP	
R1, R2, R3	3	1.50Meg	RC1206FR-071M5L	Yageo America	RES, 1.50 M, 1%, 0.25 W, 1206	1206
R4, R5, R6	3	3.3Meg	CRCW12063M30JNEA	Vishay-Dale	RES, 3.3 M, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R7	1	8.20	RC1206FR-078R2L	Yageo America	RES, 8.20, 1%, 0.25 W, 1206	1206
R8, R24	2	1.00k	RC0603FR-071KL	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R9	1	10.0	RC1206FR-0710RL	Yageo America	RES, 10.0, 1%, 0.25 W, 1206	1206
R10	1	10.0k	RC0603FR-0710KL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R11, R14	2	0.56	ERJ-8RQFR56V	Panasonic	RES, 0.56, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R12, R13	2	150k	PR01000101503JR500	Vishay-Bccomponents	RES, 150 k, 5%, 1 W, AEC-Q200 Grade 0, D2.5xL6.5mm	D2.5xL6.5mm
R15	1	32.4k	RC0603FR-0732K4L	Yageo	RES, 32.4 k, 1%, 0.1 W, 0603	0603
R16	1	4.02k	RC0603FR-074K02L	Yageo	RES, 4.02 k, 1%, 0.1 W, 0603	0603
R17	1	75.0k	ERJ-6ENF7502V	Panasonic	RES, 75.0 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R18	1	18.0k	RC0603FR-0718KL	Yageo	RES, 18.0 k, 1%, 0.1 W, 0603	0603

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R20, R21, R22	3	30	CRCW120630R0JNEA	Vishay-Dale	RES, 30, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R23, R25	2	470	RC0603FR-07470RL	Yageo	RES, 470, 1%, 0.1 W, 0603	0603
R26	1	20.0	RC0603FR-0720RL	Yageo	RES, 20.0, 1%, 0.1 W, 0603	0603
R27, R28	2	42.2k	RC0603FR-0742K2L	Yageo	RES, 42.2 k, 1%, 0.1 W, 0603	0603
RT1	1	5.0	B57235S0509M000	TDK EPCOS	Thermistor NTC, 5.0 ohm, 20%, D9.5xT6mm	
RV1	1	430 V	B72210S2271K101	TDK	Varistor, 430V, 3.5kA, 10mm Disc, TH	10 mm disc
T1	1	236uH	YXS60989T	Yaxin Electronics	Transformer, 236 uH, TH	EER28
U1	1		UCC28742DBVR	Texas Instruments	High-Efficiency Low-Cost Flyback Controller with Secondary-Side Regulation, DBV0006A (SOT-23-6)	DBV0006A
U2	1		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U3	1		TL431LIAIDBZR	Texas Instruments	Programmable Shunt Regulator with Optimized Reference Current, DBZ0003A (SOT-23-3)	DBZ0003A
C8	0	6800pF	GRM188R71H682KA01D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0603	0603
C17	0	680uF	EKZE250ELL681MJ20S	Chemi-Con	CAP, AL, 680 uF, 25 V, +/- 20%, TH	D10xL20mm
C18	0	1000uF	EKZE100ELL102MJ16S	Chemi-Con	CAP, AL, 1000 uF, 10 V, +/- 20%, TH	D10xL16mm
JP3	0	0	RC1206JR-070RL	Yageo America	RES, 0, 5%, 0.25 W, 1206	1206
R19	0	30	CRCW120630R0JNEA	Vishay-Dale	RES, 30, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R29	0	1.00Meg	RC0603FR-071ML	Yageo	RES, 1.00 M, 1%, 0.1 W, 0603	0603

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