

**PMP40500 REV E1 Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C2, C3, C4, C5, C6, C7	6	47uF	GRM32ER61C476KE15L	MuRata	CAP, CERM, 47 µF, 16 V,+/- 10%, X5R, 1210	1210
C8	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X7R, 0603	0603
C9, C10, C19, C20	4	10uF	22201C106MAT2A	AVX	CAP, CERM, 10 µF, 100 V,+/- 20%, X7R, 2220	2220
C11	1	100uF	EEV-FK2A101M	Panasonic	CAP, AL, 100 µF, 100 V, +/- 20%, 0.17 ohm, AEC-Q200 Grade 2, SMD	SMT Radial J16
C12, C13, C14, C15, C16	5	2.2uF	GRM31CR72A225KA73L	MuRata	CAP, CERM, 2.2 µF, 100 V,+/- 10%, X7R, 1206	1206
C17, C18	2	470pF	12061A471KAT2A	AVX	CAP, CERM, 470 pF, 100 V,+/- 10%, C0G/NP0, 1206	1206
C21	1	2.2uF	GRM21BR71C225KA12L	MuRata	CAP, CERM, 2.2 µF, 16 V,+/- 10%, X7R, 0805	0805
C22	1	220pF	GRM155R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V,+/- 10%, X7R, 0402	0402
C23	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 µF, 100 V,+/- 10%, X7R, 0603	0603
C24, C30, C41, C42, C43, C49	6	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X7R, 0402	0402
C25, C31	2	1uF	C0805C105K3RACTU	Kemet	CAP, CERM, 1 µF, 25 V,+/- 10%, X7R, 0805	0805
C26	1	1500pF	GRM155R71H152KA01D	MuRata	CAP, CERM, 1500 pF, 50 V,+/- 10%, X7R, 0402	0402
C27	1	1000pF	C0402C102J3RACTU	Kemet	CAP, CERM, 1000 pF, 25 V,+/- 5%, X7R, 0402	0402
C28	1	6800pF	GRM155R71E682KA01D	MuRata	CAP, CERM, 6800 pF, 25 V,+/- 10%, X7R, 0402	0402
C29, C44	2	1000pF	GRM155R71C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V,+/- 10%, X7R, 0402	0402
C32, C34	2	0.01uF	C1005X7R1C103K050BA	TDK	CAP, CERM, 0.01 µF, 16 V,+/- 10%, X7R, 0402	0402
C33, C48	2	0.01uF	GCM155R71E103KA37D	MuRata	CAP, CERM, 0.01 µF, 25 V,+/- 10%, X7R, 0402	0402
C35, C39	2	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 µF, 25 V,+/- 10%, X7R, 0603	0603
C36	1	560pF	GRM1555C1H561JA01D	MuRata	CAP, CERM, 560 pF, 50 V,+/- 5%, C0G/NP0, 0402	0402
C37	1	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0402	0402
C38	1	0.47uF	GRM188R70J474KA01D	MuRata	CAP, CERM, 0.47 µF, 6.3 V,+/- 10%, X7R, 0603	0603
C40	1	0.068uF	GRM155R71C683KA88D	MuRata	CAP, CERM, 0.068 µF, 16 V,+/- 10%, X7R, 0402	0402
C45	1	0.047uF	GRM155R71C473KA01D	MuRata	CAP, CERM, 0.047 µF, 16 V,+/- 10%, X7R, 0402	0402
C46	1	0.018uF	GRM155R71E183KA61D	MuRata	CAP, CERM, 0.018 µF, 25 V,+/- 10%, X7R, 0402	0402
C47	1	1000pF	HV1812Y102KXVATHV	Vishay-Vitramon	CAP, CERM, 1000 pF, 4000 V,+/- 10%, X7R, 1812	1812
C51, C52, C53, C54	4	470uF	PLF1C471MDO1	Nichicon	CAP, AL, 470 µF, 16 V, +/- 20%, 0.009 ohm, TH	THD, 2-Leads, 10 mm Dia, Height 13 mm, Pin Spacing 5 mm
D1, D5	2	30V	BAT54WS-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D2	1	45V	SDM10U45-7-F	Diodes Inc.	Diode, Schottky, 45 V, 0.1 A, SOD-523	SOD-523
D3, D8	2	100V	DFLS2100-7	Diodes Inc.	Diode, Schottky, 100 V, 2 A, PowerDI123	PowerDI123
D4	1	4.7V	CMDZ4L7 TR	Central Semiconductor	Diode, Zener, 4.7 V, 250 mW, SOD-323	SOD-323
D6	1	100V	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100 V, 1 A, PowerDI123	PowerDI123
D7	1	9.1V	BZT52C9V1T-7	Diodes Inc.	Diode, Zener, 9.1 V, 300 mW, SOD-523	SOD-523
J1, J2, J3, J4	4		CB35-36-CY	Panduit	Terminal 50A Lug	CB35-36-CY
L1	1	470nH	XEL6030-471MEB	Coilcraft	Inductor, Shielded, Composite, 470 nH, 22.3 A, 0.00331 ohm, AEC-Q200 Grade 1, SMD	
L2	1	1uH	XAL1580-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 µH, 57.5 A, 0.000929 ohm, SMD	15.2x8x16.2mm

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
Q1, Q2, Q3, Q4, Q5, Q6, Q8, Q9, Q10, Q11	10	100V	CSD19531Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 16 A, DQJ0008A (VSONP-8)	DQJ0008A
Q7	1	40 V	MMDT3946-7-F	Diodes Inc.	Transistor, NPN/PNP Pair, 40 V, 0.2 A, SOT-363	SOT-363
R1, R4, R25, R27	4	3.3	CRCW04023R30JNED	Vishay-Dale	RES, 3.3, 5%, 0.063 W, 0402	0402
R2, R3	2	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
R5, R6, R7, R8	4	10	CRCW120610R0JNEA	Vishay-Dale	RES, 10, 5%, 0.25 W, 1206	1206
R9	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R10, R44	2	0.002	CSNL1206FT2L00	Stackpole Electronics Inc	RES, 0.002, 1%, 1 W, 1206	1206
R11	1	511	CRCW0402511RFKED	Vishay-Dale	RES, 511, 1%, 0.063 W, 0402	0402
R12	1	25.5k	CRCW040225K5FKED	Vishay-Dale	RES, 25.5 k, 1%, 0.063 W, 0402	0402
R13	1	150k	CRCW0402150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.063 W, 0402	0402
R14	1	46.4k	CRCW040246K4FKED	Vishay-Dale	RES, 46.4 k, 1%, 0.063 W, 0402	0402
R15	1	2.2k	CRCW08052K20JNEA	Vishay-Dale	RES, 2.2 k, 5%, 0.125 W, 0805	0805
R16, R30	2	100k	CRCW0402100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R17	1	240	CRCW0603240RJNEA	Vishay-Dale	RES, 240, 5%, 0.1 W, 0603	0603
R18	1	11.8k	CRCW040211K8FKED	Vishay-Dale	RES, 11.8 k, 1%, 0.063 W, 0402	0402
R19	1	4.02k	CRCW04024K02FKED	Vishay-Dale	RES, 4.02 k, 1%, 0.063 W, 0402	0402
R20	1	7.50k	CRCW04027K50FKED	Vishay-Dale	RES, 7.50 k, 1%, 0.063 W, 0402	0402
R21	1	105k	CRCW0402105KFKEA	Vishay-Dale	RES, 105 k, 1%, 0.063 W, 0402	0402
R22	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
R23	1	6.65k	CRCW04026K65FKED	Vishay-Dale	RES, 6.65 k, 1%, 0.063 W, 0402	0402
R24, R29	2	909	CRCW0402909RFKED	Vishay-Dale	RES, 909, 1%, 0.063 W, 0402	0402
R26	1	3.32Meg	CRCW04023M32FKED	Vishay-Dale	RES, 3.32 M, 1%, 0.063 W, 0402	0402
R28	1	5.11k	CRCW04025K11FKED	Vishay-Dale	RES, 5.11 k, 1%, 0.063 W, 0402	0402
R31	1	24.9k	CRCW040224K9FKED	Vishay-Dale	RES, 24.9 k, 1%, 0.063 W, 0402	0402
R32	1	200k	CRCW0402200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.063 W, 0402	0402
R34	1	1.15k	CRCW04021K15FKED	Vishay-Dale	RES, 1.15 k, 1%, 0.063 W, 0402	0402
R35, R41	2	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, 0402	0402
R36	1	1.82k	CRCW04021K82FKED	Vishay-Dale	RES, 1.82 k, 1%, 0.063 W, 0402	0402
R37, R39, R40	3	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
R38	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	0402
R42	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R43	1	715	CRCW0402715RFKED	Vishay-Dale	RES, 715, 1%, 0.063 W, 0402	0402
R45	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
T1	1		YAXIN 1915	YAXIN ELECTRONIC TECH	500W Transformer	PTH_XFRMR_31MM0_27MM3
T2	1		750344207	Würth Electronics	TRANSFORMER	TRANSFORMER_SM D_8
TP1, TP2, TP3, TP4	4		1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
U1	1		LM5036RJBR	Texas Instruments	LM5036RJBR, RJB0028A (WQFN-28)	RJB0028A
U2	1		UCC21220AD	Texas Instruments	4-A, 6-A, 3.0-kVRMS Isolated Dual-Channel Gate Driver, D0016A (SOIC-16)	D0016A
U3	1		LM8261M5	Texas Instruments	Single RRIO, High output Current and High Capacitive Load Op Amp, DBV0005A	DBV0005A
U4	1		LM4040B25IDBZR	Texas Instruments	Precision Micropower Shunt Voltage Reference, 0.2% accuracy, 2.5 V, 15 ppm / degC, 15 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A

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U5	1		TLP291(GRL-TP,SE	Toshiba	Optocoupler, 3.75 kV, 100-200% CTR, SMT	SOP, 4-Leads, Body 2.65x4.60mm, Pitch 1.27mm

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