

## PMP40690 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB100	1		PMP40690	Any	Printed Circuit Board	
C100	1	820uF	450MXK820MEFCFA30X60	Rubycon	CAP, AL, 820 $\mu$ F, 450 V, +/- 20%, TH	D30xL60mm
C104, C105	2	0.047uF	GRM32DR72J473KW01L	MuRata	CAP, CERM, 0.047 $\mu$ F, 630 V, +/- 10%, X7R, 1210	1210
C106, C117, C126	3	1uF	B58031I5105M062	TDK	CAP, CERM, 1 $\mu$ F, 500 V, +/- 20%, B58031, AEC-Q200 Grade 0, 6.84x7.85mm	6.84x7.85mm
C107, C108, C112, C113	4	2200pF	DE6E3KJ222MN3A	MuRata	CAP, CERM, 2200 pF, 300 V, +/- 20%, E, TH, 2- Leads, Body 9x7mm, Pin Spacing 7.5mm	TH, 2- Leads, Body 9x7mm, Pin Spacing 7.5mm
C109, C110	2	0.33uF	ECQ-U2A334ML	Panasonic	CAP, Film, 0.33 uF, 275 V, +/- 20%, TH	RCAP, 17.5x17.5x9.5mm
C111, C118, C121, C130, C131, C133	6	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1uF, 6.3V, +/-10%, X7R, 0402	0402
C114	1	2.2uF	890324026034	Wurth Elektronik	CAP, Film, 2.2 $\mu$ F, 275 V, +/- 10%, TH	26x15mm
C115, C119, C123, C132	4	1uF	GRM185R60J105KE26D	MuRata	CAP, CERM, 1uF, 6.3V, +/-10%, X5R, 0603	0603
C116, C125, C127, C134	4	1000pF	GRM155R60J102KA01D	MuRata	CAP, CERM, 1000pF, 6.3V, +/-10%, X5R, 0402	0402
C120	1	1000pF	C0603C102K3GACTU	Kemet	CAP, CERM, 1000 pF, 25 V, +/- 10%, C0G/NP0, 0603	0603
C122	1	1uF	0805YD105KAT2A	AVX	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0805	0805
C135, C137	2	10uF	0805YD106MAT2A	AVX	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0805	0805
C136	1	0.01uF	C0603X103K5RACTU	Kemet	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603
C138, C600, C605	3	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
C139, C140	2	1000pF	06035A102KAT2A	AVX	CAP, CERM, 1000 pF, 50 V, +/- 10%, C0G/NP0, 0603	0603
C601, C604, C607, C611, C612, C613, C617	7	0.01uF	GRM155R70J103KA01D	MuRata	CAP, CERM, 0.01uF, 6.3V, +/-10%, X7R, 0402	0402
C602, C619, C620, C621, C622	5	0.1uF	GCM155R71C104KA55D	MuRata	CAP, CERM, 0.1 $\mu$ F, 16 V, +/- 10%, X7R, 0402	0402
C603	1	0.1uF	GRM155R60J104KA01D	MuRata	CAP, CERM, 0.1uF, 6.3V, +/-10%, X5R, 0402	0402
C606, C609, C610	3	470pF	CGA2B2X7R1H471K050BA	TDK	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C608	1	0.047uF	C1005X5R1A473K050BA	TDK	CAP, CERM, 0.047 $\mu$ F, 10 V, +/- 10%, X5R, 0402	0402
C615	1	100uF	EEU-EB1E101S	Panasonic	CAP, AL, 100 uF, 25 V, +/- 20%, TH	6.3x11.2mm
C616	1	1uF	C0805C105K3RACTU	Kemet	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	0805
C618	1	22uF	CL21A226KQQNNNE	Samsung Electro-Mechanics	CAP, CERM, 22 uF, 6.3 V, +/- 10%, X5R, 0805	0805
D100, D104	2	800V	US1K-13-F	Diodes Inc.	Diode, Fast Rectifier, 800 V, 1 A, SMA	SMA
D101, D103	2	30V	STPS130A	STMicroelectronics	Diode, Schottky, 30 V, 1 A, SMA	SMA
D102	1	600V	GBJ2506-BP	Micro Commercial Component	Diode, P-N-Bridge, 600 V, 25 A, TH	Diode Bridge, TH
D105	1	12V	MMSZ4699T1G	ON Semiconductor	Diode, Zener, 12 V, 500 mW, SOD-123	SOD-123
D106	1	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323

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D107	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600V, 1A, SMA	SMA
F100	1		SF-3812F2500T-2	Bourns Inc.	Fuse, 25 A, 250 VAC, 100 VDC, SMD	10.1x3.12mm
J104	1		282856-3	TE Connectivity	Receptacle, 3x1, 5mm, R/A, TH	Receptacle, 3x1, 5mm, R/A, TH
J601	1		800-10-005-10-001000	Mill-Max	Header, 100mil, 5x1, TH	Header, 5x1, 100mil, TH
J602	1		691214110002	Wurth Elektronik	Terminal Block, 3.5mm, 2x1, Tin, TH	Receptacle, 3.5mm, 2x1, TH
J603, J604	2		M52-5002045	Harwin Inc.	Receptacle, 20x1, 1.27mm, TH	Connector, 20x1, TH
K100	1		PCFN-112D2M,000	TE Connectivity Potter & Brum	Relay, SPST-NO (1 Form A), 20 A, 12 V, TH	4-Pin THD, Body 30.5 x 16 mm, Height 26.8 mm
L100, L101, L102	3		YXCH270060	Yaxin Electronics	CHOKE, 300uH±10%, 75.0mΩ MAX	PTH_31MM0_16MM7
L103	1		YXBCM020013007C	Yaxin Electronics	8.3mH @ 10kHz 2 Line Common Mode Choke Through Hole DCR 12mOhm	PTH_CHOKE_12MM5_25MM0
L104	1	7mH	7448051307	Wurth Elektronik	COMMON MODE CHOKE 13A 2 LN T/H	37x23mm
L601	1		74438336022	Wurth Electronics	2.2µH Shielded Molded Inductor 2.4A 67mOhm Max 2-SMD	SMD2
Q100, Q101	2	650V	STY145N65M5	STMicroelectronics	MOSFET N-CH 650V 138A MAX247	TO-247
Q102	1	60V	2N7002ET1G	ON Semiconductor	MOSFET, N-CH, 60V, 0.26A, SOT-23	SOT-23
R100, R101, R102, R119, R121, R123, R602, R605, R607	9	348k	RC1206FR-07348KL	Yageo America	RES, 348 k, 1%, 0.25 W, 1206	1206
R103, R114	2	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R104, R115	2	4.99k	ERJ-6ENF4991V	Panasonic	RES, 4.99 k, 1%, 0.125 W, 0805	0805
R105, R106, R107, R108, R109, R110, R111, R112, R113, R129, R130, R131	12	330k	CRCW1206330KJNEA	Vishay-Dale	RES, 330 k, 5%, 0.25 W, 1206	1206
R116, R132	2	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
R118, R120	2	10	CRCW120610R0JNEA	Vishay-Dale	RES, 10, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R122	1	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R126	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200 ohm, 1%, 0.1W, 0603	0603
R127, R128	2	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0k ohm, 5%, 0.063W, 0402	0402
R600, R603, R608, R630	4	1.40k	CRCW04021K40FKED	Vishay-Dale	RES, 1.40k ohm, 1%, 0.063W, 0402	0402
R601, R606	2	8.66k	CRCW04028K66FKED	Vishay-Dale	RES, 8.66 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R604	1	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10k ohm, 5%, 0.063W, 0402	0402
R609, R616, R617	3	7.50k	CRCW04027K50FKED	Vishay-Dale	RES, 7.50 k, 1%, 0.063 W, 0402	0402
R610	1	5.11k	CRCW04025K11FKED	Vishay-Dale	RES, 5.11 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R611	1	200	CRCW0402200RFKED	Vishay-Dale	RES, 200, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R612, R622, R623, R627, R628, R629, R634	7	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R614	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402

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R621, R625, R626, R637	4	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
R631, R632, R633	3	9.31k	CRCW04029K31FKED	Vishay-Dale	RES, 9.31 k, 1%, 0.063 W, 0402	0402
R635	1	681k	CRCW0402681KFKED	Vishay-Dale	RES, 681 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R636	1	130k	CRCW0402130KFKED	Vishay-Dale	RES, 130 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
RT100, RT101	2	50	B59751C0120A070	TDK	Thermistor NTC, 50 ohm, 25%, D13xH18mm	D13xH18mm
RV100	1		S10K275E2	EPCOS Inc	Varistor 275V RMS 10MM Radial, TH	10mm Radial
TP100, TP101	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP102, TP103	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U100, U102, U104	3		TMCS1100A2DT	Texas Instruments	TMCS1100A2DT, D0008A (SOIC-8)	D0008A
U101	1		TMCS1100A1DT	Texas Instruments	TMCS1100A1DT, D0008A (SOIC-8)	D0008A
U103	1		TLV71333PQDBVRQ1	Texas Instruments	Capacitor-Free, 150-mA, Low-Dropout Regulator with Foldback Current Limit for Portable Devices, DBV0005A	DBV0005A
U105	1		UCC27714D	Texas Instruments	High-Speed, 4A, 600V High-side Low-side Gate Driver Device, D0014A	D0014A
U600	1		SN74LVC1G3157DRYR	Texas Instruments	SINGLE-POLE DOUBLE-THROW ANALOG SWITCH, DRY0006A	DRY0006A
U601	1		OPA2376AIDG4	Texas Instruments	Precision, Low Noise, Low Quiescent Current Operational Amplifier, 2 to 5.5 V, -40 to 125 degC, 8-pin SOIC (D0008A), Green (RoHS & no Sb/Br)	D0008A
U602	1		TPS62160QDSGRQ1	Texas Instruments	3V-17V 1A Automotive Step-Down Converters in 2x2SON, DSG0008A (WSON-8)	DSG0008A
U603	1		LM4040A25IDBZR	Texas Instruments	Precision Micropower Shunt Voltage Reference, 0.1% accuracy, 2.5 V, 15 ppm / degC, 15 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U604	1		REF1933AIDDCR	Texas Instruments	Dual Output Vref and Vref/2 Voltage Reference, DDC0005A (SOT-23-T-5)	DDC0005A
C614	0	47pF	GRM1555C1E470JA01D	MuRata	CAP, CERM, 47 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
J101, J102, J103	0		PPTC061LFBN-RC	Sullins Connector Solutions	Receptacle, 100mil, 6x1, Tin, TH	Receptacle, 6x1, 2.54mm, Female, TH
R117	0	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
R613	0	4.87k	ERA-2AEB4871X	Panasonic	RES, 4.87 k, 0.1%, 0.062 W, AEC-Q200 Grade 0, 0402	0402
R618, R620, R624	0	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
R619	0	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402