

## PMP40690\_CC REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP40690_CC	Any	Printed Circuit Board	
C1, C1:A, C2, C6:A, C7:A, C8:A, C9:A, C10:A, C11:A, C12:A, C14:A, C16:A, C20, C21, C22, C23, C26, C30, C31, C32, C33, C46, C47, C48, C49, C50, C51	27	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 $\mu$ F, 10 V, +/- 10%, X7R, 0402	0402
C2:A, C3:A, C5:A, C13:A, C15:A	5	4.7uF	C0603C475K9PACTU	Kemet	CAP, CERM, 4.7 $\mu$ F, 6.3 V, +/- 10%, X5R, 0603	0603
C4:A, C45	2	0.01uF	GRM155R71C103KA01D	MuRata	CAP, CERM, 0.01 $\mu$ F, 16 V, +/- 10%, X7R, 0402	0402
C17, C27, C28, C29	4	2.2uF	C0603C225K8PACTU	Kemet	CAP, CERM, 2.2 $\mu$ F, 10 V, +/- 10%, X5R, 0603	0603
C17:A, C18:A	2	27pF	GRM1555C1H270JA01D	MuRata	CAP, CERM, 27 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C18, C19, C25, C39	4	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 $\mu$ F, 10 V, +/- 20%, X5R, 0603	0603
C24	1	10uF	C0805C106K8PACTU	Kemet	CAP, CERM, 10 $\mu$ F, 10 V, +/- 10%, X5R, 0805	0805
C37	1	15pF	GRM1555C1H150JA01D	MuRata	CAP, CERM, 15 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C52	1	0.01uF	1812SC103KAT1A	AVX	CAP, CERM, 0.01 $\mu$ F, 1500 V, +/- 10%, X7R, 1812	1812
D1, D2	2	Red	150080SS75000	Würth Elektronik	LED, Red, SMD	LED_0805
D1:A	1	10V	MBRM110ET1G	ON Semiconductor	Diode, Schottky, 10 V, 1 A, AEC-Q101, POWERMITE	POWERMITE
D2:A, D3	2	Bright Green	150080VS75000	Würth Elektronik	LED, Bright Green, SMD	LED_0805
D3:A, D4:A	2	Blue	150080BS75000	Würth Elektronik	LED, Blue, SMD	LED_0805
J1:A	1		65100516121	Würth Elektronik	Connector, Receptacle, USB Mini B 2.0, SMT	Connector, Receptacle, USB Mini B 2.0, 5 Position, SMT
J2, J3	2		GRPB201VWCN-RC	Sullins Connector Solutions	Header, 50mil, 20x1, Tin, R/A, TH	25.4x2.2x7 mm
L1	1	220 ohm	BLM21PG221SN1D	MuRata	Ferrite Bead, 220 ohm @ 100 MHz, 2 A, 0805	0805
L1:A, L2:A	2	600 ohm	HZ0805E601R-10	Laird-Signal Integrity Products	Ferrite Bead, 600 ohm @ 100 MHz, 0.5 A, 0805	0805
L2	1	60 ohm	BKP2125HS600-T	Taiyo Yuden	Ferrite Bead, 60 ohm @ 100 MHz, 3 A, 0805	0805
L3	1	2.2uH	LQM2HPN2R2MG0L	MuRata	Inductor, Multilayer, Ferrite, 2.2 $\mu$ H, 1.3 A, 0.08 ohm, SMD	SMD, Body 2.5x2mm, Height 1.2mm
R1, R2	2	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
R1:A, R28, R29, R41	4	680	CRCW0402680RJNED	Vishay-Dale	RES, 680, 5%, 0.063 W, 0402	0402

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R2:A, R4:A, R8, R9, R9:A	5	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
R3:A, R6:A, R47	3	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R5:A, R7:A, R8:A, R11:A	4	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R30, R31, R34, R52	20	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R10:A, R45, R46, R48, R49, R50	6	2.2k	CRCW04022K20JNED	Vishay-Dale	RES, 2.2 k, 5%, 0.063 W, 0402	0402
R14:A	1	12k	CRCW040212K0JNED	Vishay-Dale	RES, 12 k, 5%, 0.063 W, 0402	0402
R32, R33, R38	3	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R43, R44	2	56k	CRCW040256K0JNED	Vishay-Dale	RES, 56 k, 5%, 0.063 W, 0402	0402
S3, S4	2		218-2LPST	CTS Electrocomponents	Switch, SPST, 2 Pos, 25mA, 24VDC, SMD	3.71x5.8mm
U1	1		F280049PMS	Texas Instruments	Piccolo Microcontroller, PM0064A (LQFP-64)	PM0064A
U1:A	1		TPS73033DBVR	Texas Instruments	Low-Noise, High PSRR, RF, 200-mA Low-Dropout Linear Regulator, DBV0005A (SOT-5)	DBV0005A
U2, U3, U4, U5	4		TPD4E001QDBVRQ1	Texas Instruments	4-CHANNEL ESD PROTECTION ARRAY WITH 1.5-pF IO CAPACITANCE, DBV006A (SOT-6)	DBV0006A
U2:A	1		FT2232HL-REEL	FTDI	Dual High Speed USB To Multipurpose UART/FIFO IC, LQFP-64	LQFP_10x10mm
U3:A	1		TPD2E001DRLR	Texas Instruments	Low-Capacitance + / - 15 kV ESD-Protection Array for High-Speed Data Interfaces, 2 Channels, -40 to +85 degC, 5-pin SOT (DRL), Green (RoHS & no Sb/Br)	DRL0005A
U4:A	1		93LC56C-I/SN	Microchip	2K Microwire Compatible Serial EEPROM, SOIC-8	SOIC-8
U6	1		SN74LVC2G07DBVR	Texas Instruments	DUAL BUFFER/DRIVER WITH OPEN DRAIN OUTPUTS, DBV0006A (SOT-6)	DBV0006A
U7	1		TPS73633DBVR	Texas Instruments	Single Output Low Noise LDO, 400 mA, Fixed 3.3 V Output, 1.7 to 5.5 V Input, with Reverse Current Protection, 5-pin SOT-23 (DBV), -40 to 85 degC, Green (RoHS & no Sb/Br)	DBV0005A
U8	1		TPS3702CX33DDCR	Texas Instruments	High-Accuracy, Fixed-Threshold OV/UV Monitor, DDC0006A (SOT-6)	DDC0006A
U9	1		ISO7740DBQR	Texas Instruments	High Speed, Robust EMC Reinforced Quad-Channel Digital Isolator, DBQ0016A (SSOP-16)	DBQ0016A
U10	1		ISO7720DR	Texas Instruments	High Speed, Robust EMC Dual-Channel Digital Isolator, D0008B (SOIC-8)	D0008B
U11	1		SN74ALVC244PWR	Texas Instruments	OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS, PW0020A (TSSOP-20)	PW0020A
Y1	1		7B-20.000MEEQ-T	TXC Corporation	Crystal, 20.000MHz, 10pF, SMD	5x0.9x3.2mm
Y1:A	1		ECS-120-20-30B-TR	ECS Inc.	Crystal, 12MHz, 20pF, SMD	5x3.2mm
C3, C4, C5, C6, C7, C8, C9, C11, C12, C13, C14, C15, C16	0	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603
C10	0	0.047uF	GRM188R71C473KA01D	MuRata	CAP, CERM, 0.047 µF, 16 V, +/- 10%, X7R, 0603	0603
C34	0	2.2uF	GRM188R61A225KE34D	MuRata	CAP, CERM, 2.2 µF, 10 V, +/- 10%, X5R, 0603	0603
C35, C36, C42	0	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
C38	0	15pF	GRM1555C1H150JA01D	MuRata	CAP, CERM, 15 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402

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C40	0	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 $\mu$ F, 10 V, +/- 10%, X7R, 0402	0402
C41, C44	0	0.01uF	GRM155R71C103KA01D	MuRata	CAP, CERM, 0.01 $\mu$ F, 16 V, +/- 10%, X7R, 0402	0402
C43	0	1000pF	GRM155R71C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0402	0402
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
R7, R26, R27, R35, R39, R40, R51	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R12:A, R13:A	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R42	0	1.00	CRCW04021R00FKED	Vishay-Dale	RES, 1.00, 1%, 0.063 W, 0402	0402
R53, R54	0	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402