

**PMP40069 REV A Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2	2	9pF	GRM1555C1H9R0DA01D	MuRata	CAP, CERM, 9 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C3, C4	2	12pF	GRM1555C1H120JA01D	MuRata	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C12	1	0.01uF	885012205050	Wurth Elektronik	CAP, CERM, 0.01 µF, 25 V, +/- 10%, X7R, 0402	0402
C13, C17, C18, C55, C56, C57, C58, C69, C70, C91, C92	11	10uF	GRM219R61E106KA12D	MuRata	CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0805	0805
C15, C87	2	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
C19, C37, C76	3	0.1uF	885012205037	Wurth Elektronik	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
C20	1	22uF	GRM188R61A226ME15D	MuRata	CAP, CERM, 22 µF, 10 V, +/- 20%, X5R, 0603	0603
C22	1	0.01uF	885012205031	Wurth Elektronik	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0402	0402
C23, C24, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C38, C40, C41, C42, C43, C44, C45, C46, C47, C48, C54, C75, C79	26	0.1uF	885012205037	Wurth Elektronik	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
C25, C52, C59, C64, C67, C68, C82, C84, C95, C125, C126	11	1uF	GRM155R61E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0402	0402
C39, C65, C71, C73	4	1uF	885012105012	Wurth Elektronik	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402	0402
C49, C50, C51, C96, C97, C98, C119, C124, C181, C182	10	0.1uF	885012105018	Wurth Elektronik	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0402	0402
C53, C90, C102, C104, C105	5	0.1uF	885012105016	Wurth Elektronik	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X5R, 0402	0402
C60, C61, C62, C63, C93, C94	6	22uF	GRM188R60J226MEA0J	MuRata	CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0603	0603
C66	1	1000pF	GRM1555C1H102JA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C78	1	10pF	885012005055	Wurth Elektronik	CAP, CERM, 10 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
C80, C81, C83	3	470pF	885012006061	Wurth Elektronik	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C85	1	1200pF	GRM1885C1H122JA01D	MuRata	CAP, CERM, 1200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C88	1	2.2uF	885012105007	Wurth Elektronik	CAP, CERM, 2.2 µF, 6.3 V, +/- 10%, X5R, 0402	0402
C89	1	4.7uF	885012105008	Wurth Elektronik	CAP, CERM, 4.7 µF, 6.3 V, +/- 20%, X5R, 0402	0402
C99, C101	2	1uF	885012105012	Wurth Elektronik	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402	0402
C100, C103	2	1uF	C1005X5R1E105K050BC	TDK	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0402	0402

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C109, C134, C140, C152, C153	5	100pF	885012005061	Wurth Elektronik	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C114	1	0.01uF	885012205067	Wurth Elektronik	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0402	0402
C115	1	1000pF	885012205061	Wurth Elektronik	CAP, CERM, 1000 pF, 50 V, +/- 10%, X5R, 0402	0402
C116	1	10uF	GRM21BR6YA106KE43L	MuRata	CAP, CERM, 10 µF, 35 V, +/- 10%, X5R, 0805	0805
C120, C136	2	56uF	EEHZA1E560P	Panasonic	CAP, Polymer Hybrid, 56 µF, 25 V, +/- 20%, 50 ohm, 6.3x5.8 SMD	6.3x5.8
C121, C122	2	47uF	C3216X5R1E476M160AC	TDK	CAP, CERM, 47 µF, 25 V, +/- 20%, X5R, 1206_190	1206_190
C123	1	10uF	GRM188R61E106MA73D	MuRata	CAP, CERM, 10 µF, 25 V, +/- 20%, X5R, 0603	0603
C127, C128, C132	3	22uF	C3216X5R1V226M160AC	TDK	CAP, CERM, 22 µF, 35 V, +/- 20%, X5R, 1206_190	1206_190
C130, C131	2	330pF	GRM1555C1H331JA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C135	1	22uF	C3216X5R1V226M	TDK	CAP, CERM, 22 µF, 35 V, +/- 20%, X5R, 1206_190	1206_190
C137	1	1uF	C1005X5R1C105K050BC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0402	0402
C138, C139	2	0.047uF	885012105015	Wurth Elektronik	CAP, CERM, 0.047 µF, 16 V, +/- 10%, X5R, 0402	0402
C142	1	15pF	885012005056	Wurth Elektronik	CAP, CERM, 15 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C143	1	1800pF	GRM155R71H182KA01D	MuRata	CAP, CERM, 1800 pF, 50 V, +/- 10%, X7R, 0402	0402
C144	1	680pF	GRM1555C1H681JA01D	MuRata	CAP, CERM, 680 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C151	1	2.2uF	C1005X5R1C225K050BC	TDK	CAP, CERM, 2.2 µF, 16 V, +/- 10%, X5R, 0402	0402
C156, C157	2	0.1uF	885012105010	Wurth Elektronik	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X5R, 0402	0402
C158	1	4.7uF	885012105008	Wurth Elektronik	CAP, CERM, 4.7 µF, 6.3 V, +/- 20%, X5R, 0402	0402
C159	1	1uF	GRM155R6YA105KE11D	MuRata	CAP, CERM, 1 µF, 35 V, +/- 10%, X5R, 0402	0402
C160	1	1100pF	C0402C112J5GAC7867	Kemet	CAP, CERM, 1100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C161	1	1uF	GRM188R61H105KAALD	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X5R, 0603	0603
C162, C165, C166, C180	4	47pF	885012005059	Wurth Elektronik	CAP, CERM, 47 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
D2	1	40V	SMD24PL-TP	Micro Commercial Co	DIODE SCHOTTKY 40V 2A SOD123FL	SOD123FL
D3	1	40V	MBR0540T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.5 A, SOD-123	SOD-123
D4, D5, D6	3	18V	ESDA18-1K	STMicroelectronics	TVS DIODE 15VWM 34VC SOD523	SOD-523
D7	1	40V	1N5819HW-7-F	Diodes Inc.	Diode, Schottky, 40 V, 1 A, SOD-123	SOD-123
D8, D9	2	30V	RB521S30T1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, AEC-Q101, SOD-523	SOD-523
D10, D18, D19, D21	4	9.1V	BZT52C9V1S-7-F	Diodes Inc.	Diode, Zener, 9.1 V, 200 mW, SOD-323	SOD-323
D12, D13, D14, D15	4	Green	LTST-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
D16	1	Orange	LTST-C190KFKT	Lite-On	LED, Orange, SMD	1.6x0.8x0.8mm
D17	1	30V	BAT54C-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
D30	1	40V	B340A-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMA	SMA
F1, F2	2	1500mA	BLM15PD800SN1D	Murata	FERRITE CHIP 80 OHM 1500MA 0402	WE-PD-M
GPIO_7, I_V5P5, IIC0_SCL, IIC0_SDA, LED_A, P1P1V, P2P5V, P3P3V, P_V5P5, PGND, V1P8VOUT, VBIAS, VINTF, VOFS, VRST	15	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
J1	1		AXT550124	Panasonic	Socket, 0.4mm, 25x2, Gold, SMT	Socket, 0.4mm, 25x2, Gold, SMT

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
J1	1		JPD1135-509-7F	Foxconn	Connector, DC Power Jack, R/A, 3 Pos, TH	Power connector
J3	1		B3B-ZR-SM4-TF(LF)(SN)(P)	JST	CONN HEADER ZH TOP 3POS 1.5MM	CONN HEADER ZH TOP 3POS 1.5MM
J6	1		62105021021	Würth Elektronik	Header, 1.27mm, 25x2, SMT	Header, 1.27mm, 25x2, SMT
J10, J11, J12	3		0874380643	Molex	Header (Shrouded), 1.5mm, 6x1, Tin, R/A, Beige, SMT	Header (Shrouded), 1.5mm, 6x1, R/A, SMT
J21	1		B2B-EH-A(LF)(SN)	JST Manufacturing	Header (Shrouded), 2.5mm, 2x1, Tin, TH	Header (Shrouded), 2.5mm, 2x1, TH
L2	1	10uH	74438336100	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 10 µH, 1.25 A, 0.2 ohm, SMD	LPS4018
L3	1	4.7uH	XAL7070-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 µH, 13.6 A, 0.01 ohm, SMD	7.2x7x7.5mm
L4, L6, L7	3	3.3uH	74439344033	Würth Elektronik	Inductor, 3.3uH, 4.8 A, 0.052ohm, SMD	5.4x1.6x5.2mm
L8	1	2.2uH	XAL7070-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 µH, 17.8 A, 0.01 ohm, SMD	7.2x7x7.5mm
Q1, Q100	2	-20V	CSD25404Q3	Texas Instruments	MOSFET, P-CH, -20 V, -60 A, DQG0008A	DQG0008A
Q2	1	-20V	CSD25402Q3A	Texas Instruments	MOSFET, P-CH, -20 V, -15 A, DNH0008A	DNH0008A
Q5, Q6, Q7, Q8	4	30V	CSD17578Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 14 A, SON 3.3x3.3mm	SON 3.3x3.3mm
Q11, Q12	2	-20V	CSD25483F4	Texas Instruments	MOSFET, P-CH, -20 V, -1.6 A, YJC0003A	YJC0003A
Q20	1	30V	CSD17483F4T	Texas Instruments	MOSFET, N-CH, 30 V, 1.5 A, YJC0003A	YJC0003A
R1, R62, R63	3	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R2	1	953k	CRCW0402953KFKED	Vishay-Dale	RES, 953 k, 1%, 0.063 W, 0402	0402
R3, R4	2	43	CRCW040243R0JNED	Vishay-Dale	RES, 43, 5%, 0.063 W, 0402	0402
R5, R8, R9, R25, R26, R30, R95, R98	8	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R6, R7, R10, R12, R13, R29, R39, R61	8	30.1	CRCW040230R1FKED	Vishay-Dale	RES, 30.1, 1%, 0.063 W, 0402	0402
R11, R22	2	30k	CRCW040230K0JNED	Vishay-Dale	RES, 30 k, 5%, 0.063 W, 0402	0402
R14, R15, R16	3	0	RK73Z1ETTP	KOA Speer	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R17	1	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
R18, R19, R38, R40, R42	5	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
R20, R23, R27, R31, R32, R99	6	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R24	1	7.87k	CRCW04027K87FKED	Vishay-Dale	RES, 7.87 k, 1%, 0.063 W, 0402	0402
R28, R33, R65, R66, R68	5	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
R34, R36, R37	3	0	ERJ-8GEY0R00V	Panasonic	RES, 0, 5%, 0.25 W, 1206	1206
R35	1	0.025	WSL2010R0250FEA18	Vishay-Dale	RES, 0.025, 1%, 1 W, 2010	2010
R41	1	56.0	RC0603FR-0756RL	Yageo America	RES, 56.0, 1%, 0.1 W, 0603	0603
R44	1	300	CRCW0402300RJNED	Vishay-Dale	RES, 300, 5%, 0.063 W, 0402	0402
R45, R47, R50, R53	4	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
R46, R69, R110, R180	4	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, 0402	0402
R48, R49	2	3.0Meg	CRCW04023M00JNED	Vishay-Dale	RES, 3.0 M, 5%, 0.063 W, 0402	0402
R51, R52, R54	3	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R55, R57	2	5.1k	CRCW04025K10JNED	Vishay-Dale	RES, 5.1 k, 5%, 0.063 W, 0402	0402
R56	1	3.9	ERJ-14YJ3R9U	Panasonic	RES, 3.9, 5%, 0.5 W, 1210	1210

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R58, R59	2	10k ohm	ERT-J0EG103HA	Panasonic	Thermistor NTC, 10k ohm, 3%, 0402	0402
R60, R73	2	0.01	WSLP1206R0100FEA	Vishay-Dale	RES, 0.01, 1%, 1 W, 1206	1206
R72	1	0.01	WSL0805R0100FEA18	Vishay-Dale	RES, 0.01, 1%, 0.25 W, 0805	0805
R75	1	510	ERJ-2RKF5100X	Panasonic	RES, 510, 1%, 0.1 W, 0402	0402
R76, R77, R80, R81	4	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R78, R79, R84	3	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
R82, R83	2	56	CRCW060356R0JNEA	Vishay-Dale	RES, 56, 5%, 0.1 W, 0603	0603
R86	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, 0402	0402
R87	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	0402
R92	1	383k	CRCW0402383KFKED	Vishay-Dale	RES, 383 k, 1%, 0.063 W, 0402	0402
R93	1	53.6k	CRCW040253K6FKED	Vishay-Dale	RES, 53.6 k, 1%, 0.063 W, 0402	0402
R94	1	221k	CRCW0402221KFKED	Vishay-Dale	RES, 221 k, 1%, 0.063 W, 0402	0402
R100, R101, R102, R103, R104	5	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, 0402	0402
R108, R109	2	2.2k		Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
R113	1	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, 0402	0402
R114, R115, R120, R121	4	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
RT1	1	100k ohm	NCP15WF104F03RC	MuRata	Thermistor NTC, 100k ohm, 1%, 0402	0402
S1, S2	2		B3U-1100P	Omron Electronic Components	Switch, SPST-NO, Off-Mom, 12 V, SMD	SMD, 3-Leads, Body 3x2.5mm
U1	1		DLPC3438ZEZ	Texas Instruments		
U2	1		DLPA3000DPFDR	Texas Instruments	PMIC and High-Current LED Driver IC, PFD0100A	PFD0100A
U3	1	W25Q16D WSSIG	W25Q16DWSSIG	Texas Instruments	IC FLASH SPI 16MBIT 8SOIC	SOIC-8_208mil
U4	1		BQ25700RSNR	Texas Instruments	NVDC Battery Buck-Boost Charge Controller with System Power Monitor and Processor Hot Monitor, RSN0032B	RSN0032B
U7	1		BQ3060PW	Texas Instruments	SBS 1.1-Compliant Gas Gauge and Protector, -40 to 85 degC, 24-pin TSSOP (PW), Green (RoHS & no Sb/Br)	PW0024A
U11	1		MSP430G2955IRHA40R	Texas Instruments	MIXED SIGNAL MICROCONTROLLER, RHA0040B	RHA0040B
U12	1		TLV70433DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 3.3 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
X1	1		1ZZCAA24000EE0C	KDS	Type NX2016SA, 24MHz	
Y1	1		MS3V-T1R 32.768KHZ +/- 20PPM 12.5PF	Micro Crystal AG	Crystal, 32.768kHz, 12.5pF, SMD	1.4x1.4x5.0mm SMD
C21	0	22uF	GRM188R61A226ME15D	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0603	0603
C74	0	680pF	885012205060	Wurth Elektronik	CAP, CERM, 680 pF, 50 V, +/- 10%, X7R, 0402	0402
C86	0	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	0603
D1	0	40V	1N5819HW-7-F	Diodes Inc.	Diode, Schottky, 40 V, 1 A, SOD-123	SOD-123
J5, J20, J22	0	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
J7	0	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
P1	0		M22-5330405	Harwin	Header, 2mm, 4x1, Gold, Black, R/A, SMT	Header, 2mm, 4x1, R/A, SMT
R21, R43	0	464	CRCW0402464RFKED	Vishay-Dale	RES, 464, 1%, 0.063 W, 0402	0402

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