

## PMP22170 REV C Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	100pF	GRM21A5C2E101JW01D	MuRata	CAP, CERM, 100 pF, 250 V, +/- 5%, COG/NP0, 0805	0805
C2	1		EEH-ZS1H221V	Panasonic	220µF 50V Aluminum Polymer Capacitor Radial, Can - SMD 13 mOhm 4000 Hrs @ 125°C	RADIAL_SMD
C3, C4, C5	3	10uF	UMK325AB7106KMHT	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C6, C7, C12	3	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
C8	1	330uF	EEHZC1E331P	Panasonic	CAP, Polymer Hybrid, 330 uF, 25 V, +/- 20%, 20 mohm, 10x10 SMD	10x10
C9	1	22uF	TMK325B7226KMHT	Taiyo Yuden	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C13	1	1uF	GCM188R71E105KA64D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C14	1	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
C15	1	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X7R, 1210	1210
C16, C18, C22	3	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	0603
C17	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
C19	1	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C20	1	10pF	GRM1885C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
C21	1	0.01uF	GCM188R71H103KA37D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C23	1	0.22uF	GCM188R71H224KA64D	MuRata	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C24	1	1000pF	GR442QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1808	1808
D1	1	200V	PDS4200HQ-13	Diodes Inc.	Diode, Schottky, 200 V, 4 A, AEC-Q101, PowerDI5	PowerDI5
D2	1	10V	MMSZ5240B-7-F	Diodes Inc.	Diode, Zener, 10 V, 500 mW, SOD-123	SOD-123
D3	1	100V	PMEG10010ELRX	Nexperia	Diode, Schottky, 100 V, 1 A, AEC-Q101, SOD-123W	SOD-123W
D4	1	200V	DFLS1200Q-7	Diodes Inc.	Diode, Schottky, 200 V, 1 A, PowerDI123	PowerDI123
D5	1	40V	SD103AW-7-F	Diodes Inc.	Diode, Schottky, 40 V, 0.35 A, SOD-123	SOD-123
D6	1	30V	BAT54LP-7	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, 1.00x0.50x0.60mm	1.00x0.50x0.60mm
J1, J2, J3	3		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
Q1	1	100V	IPD60N10S4L12ATMA1	Infineon Technologies	MOSFET, N-CH, 100 V, 60 A, AEC-Q101, DPAK	DPAK
R1	1	100	CRCW1206100RFKEAHP	Vishay-Dale	RES, 100, 1%, 0.5 W, AEC-Q200 Grade 0, 1206	1206
R2	1	330	RC1210JR-07330RL	Yageo	RES, 330, 5%, 0.5 W, 1210	1210
R4	1	80.6	CRCW080580R6FKEA	Vishay-Dale	RES, 80.6, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R6	1	590	RC1210FR-07590RL	Yageo	RES, 590, 1%, 0.5 W, 1210	1210
R7	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R8	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9	1	66.5k	CRCW060366K5FKEA	Vishay-Dale	RES, 66.5 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R11	1	0	CRCW0603000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R12	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R13	1	0.010	ERJ-8BWF010V	Panasonic	RES, 0.010, 1%, 1 W, AEC-Q200 Grade 0, 1206	1206
R14	1	27.4k	CRCW060327K4FKEA	Vishay-Dale	RES, 27.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R15	1	73.2k	CRCW060373K2FKEA	Vishay-Dale	RES, 73.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R16	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R17, R19	2	6.04k	CRCW06036K04FKEA	Vishay-Dale	RES, 6.04 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R18	1	20.0	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R20	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
T1	1		750318683R00	Würth Electronics	TRANSFORMER, 7uH, SMT	SMT_TRANSFORMER
TP1, TP2, TP6, TP7	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP4, TP9, TP16	4		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP5	1		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP15	1		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1		TPS7B8250QDGNRQ1	Texas Instruments	300mA High-Voltage Ultra-Low-Iq Low-Dropout (LDO) Regulator, DGN0008D (VSSOP-8)	DGN0008D
U2	1		LM5155QDSSTQ1	Texas Instruments	Automotive Grade 2.2-MHz Wide Input Non-synchronous Boost Controller, DSS0012C (WSON-12)	DSS0012C
C10, C11	0	22uF	TMK325B7226KMHT	Taiyo Yuden	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
R3	0	1.00k	ERJ14NF1001U	Panasonic	RES, 1.00 k, 1%, 0.5 W, AEC-Q200 Grade 0, 1210	1210
R5	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R10	0	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
TP10	0		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint

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