

## PMP30252 REV C Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	2200pF	GRM188R72A222KA01D	MuRata	CAP, CERM, 2200 pF, 100 V, +/- 10%, X7R, 0603	0603
C2	1	68uF	EEH3C1H680P	Panasonic	CAP, Polymer Hybrid, 68 µF, 50 V, +/- 20%, 30 ohm, 8x10 SMD	8x10
C3, C4	2	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210
C5, C8, C9, C17	4	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C6	1	0.01uF	GRM21BR72A103MA01L	MuRata	CAP, CERM, 0.01 µF, 100 V, +/- 20%, X7R, 0805	0805
C7	1	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 µF, 25 V, +/- 10%, X7R, 1210	1210
C10	1	220uF	EEH3C1E221P	Panasonic	CAP, Polymer Hybrid, 220 µF, 25 V, +/- 20%, 27 ohm, 8x10 SMD	8x10
C11	1	0.33uF	GRM219R71H334KA88D	MuRata	CAP, CERM, 0.33 µF, 50 V, +/- 10%, X7R, 0805	0805
C12, C21	2	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C13	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
C15	1	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
C16	1	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047 µF, 25 V, +/- 10%, X7R, 0603	0603
C18	1	15pF	GRM1885C1H150JA01D	MuRata	CAP, CERM, 15 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
C19	1	2700pF	GRM188R71E272KA01D	MuRata	CAP, CERM, 2700 pF, 25 V, +/- 10%, X7R, 0603	0603
C20	1	3300pF	GRM188R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603
C100	1	4700pF	1812GC472KA1	AVX	CAP, CERM, 4700 pF, 2000 V, +/- 10%, X7R, 1812	1812
D1	1	80V	B380-13-F	Diodes Inc.	Diode, Schottky, 80 V, 3 A, SMC	SMC
D2	1	100V	ES1B-13-F	Diodes Inc.	Diode, Superfast Rectifier, 100 V, 1 A, SMA	SMA
D3	1	8.2V	MMSZ5237BS-7-F	Diodes Inc.	Diode, Zener, 8.2 V, 200 mW, SOD-323	SOD-323
D4	1	6.8V	MMSZ5235BS-7-F	Diodes Inc.	Diode, Zener, 6.8V, 200mW, SOD-323	SOD-323
D5	1	100V	MMSD914T1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
J1, J2	2		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
L1	1	3.3uH	XFL4020-332MEB	Coilcraft	Inductor, Shielded, Composite, 3.3 µH, 2.9 A, 0.03 ohm, SMD	4x2x4mm
Q1	1	100V	BSC440N10NS3 G	Infineon Technologies	MOSFET, N-CH, 100 V, PG-TDSON-8	PG-TDSON-8
Q2	1	0.3V	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40V, 0.15A, SOT-23	SOT-23
R1	1	22	CRCW201022R0JNEF	Vishay-Dale	RES, 22, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R2	1	5.6	CRCW12065R60JNEA	Vishay-Dale	RES, 5.6, 5%, 0.25 W, 1206	1206
R3, R9	2	10.0	CRCW060310R0FKFA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R4, R5	2	4.99k	CRCW12064K99FKFA	Vishay-Dale	RES, 4.99 k, 1%, 0.25 W, 1206	1206
R6	1	1.0Meg	CRCW06031M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.1 W, 0603	0603
R7, R8	2	40.2k	CRCW060340K2FKFA	Vishay-Dale	RES, 40.2 k, 1%, 0.1 W, 0603	0603
R10, R25	2	1.00k	CRCW06031K00FKFA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R11	1	287k	CRCW0603287KFKEA	Vishay-Dale	RES, 287 k, 1%, 0.1 W, 0603	0603
R12, R24	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603, RES, 100 k, 1%, 0.1 W, 0603	0603
R13	1	0.015	WSLP1206R0150FEA	Vishay-Dale	RES, 0.015, 1%, 1 W, 1206	1206
R14, R15	2	49.9	CRCW060349R9FKFA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R16	1	49.9k	CRCW060349K9FKFA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R17, R19	2	2.00k	CRCW06032K00FKFA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R18, R20	2	20.0k	CRCW060320K0FKFA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R21	1	5.11k	CRCW06035K11FKFA	Vishay-Dale	RES, 5.11 k, 1%, 0.1 W, 0603	0603
R22	1	10.0k	CRCW060310K0FKFA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R23	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R26	1	5.23k	CRCW06035K23FKFA	Vishay-Dale	RES, 5.23 k, 1%, 0.1 W, 0603	0603
T1	1	7uH	750317023	Würth Elektronik	Transformer, 7 uH, TH	20.3x17.96
TP1, TP3, TP7	3	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP2	1		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP4, TP5, TP9	3	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP6, TP8	2		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1		TPS40210QDGQRQ1	Texas Instruments	4.5-V TO 52-V INPUT CURRENT MODE BOOST CONTROLLER, DGQ0010D	DGQ0010D
U2	1		TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	SOP-4
U3	1		TL431AIDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A

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