

## PMP30722 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	680pF	C0805C681K5RACTU	Kemet	CAP, CERM, 680 pF, 50 V, +/- 10%, X7R, 0805	805
C2	1	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	603
C3, C16	2	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
C4, C5, C6, C8, C9, C12, C13, C14	8	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
C7	1	180uF	PCR1H181MCL1GS	Nichicon	CAP, Aluminum Polymer, 180 uF, 50 V, +/- 20%, 0.019 ohm, SMD, 2-Leads, Dia 10.5mm, Pin Spacing 8mm SMD	SMD, 2-Leads, Dia 10.5mm, Pin Spacing 8mm
C10, C11	2	0.1uF	GRM155R71H104ME14D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 20%, X7R, 0402	402
C15	1	100uF	EEE-FK1H101P	Panasonic	CAP, AL, 100 uF, 50 V, +/- 20%, 0.34 ohm, AEC-Q200 Grade 2, SMD	SMT Radial F
C17	1	1uF	GRM21BR71C105KA01L	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0805	805
C18	1	0.1uF	GCM188R71E104KA57D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
C19	1	1000pF	GRM155R61E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X5R, 0402	402
C20	1	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
C21	1	2200pF	C0603X222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	603
C22	1	0.22uF	GCM188R71H224KA64D	MuRata	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
D1	1	100V	V12P10-M3/86A	Vishay-Semiconductor	Diode, Schottky, 100 V, 12 A, AEC-Q101, TO-277A	TO-277A
GND	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
J1, J2	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
J3, J4	2		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
L1	1	4.7uH	XEL5050-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 uH, 7.4 A, 0.0215 ohm, AEC-Q200 Grade 1, SMD	5.28x5.48mm
L2	1	15uH	XAL1510-153MEB	Coilcraft	Inductor, Shielded, Composite, 15 uH, 18 A, 0.00917 ohm, SMD	15.4 x 11 x 16.4mm
L3	1	200nH	XPL2010-201MLB	Coilcraft	Inductor, Shielded, Composite, 200 nH, 2.8 A, 0.02 ohm, SMD	XPL2010
NWA, SWNode	2		5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
PGood	1		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
Q1	1		BSC094N06LS5ATMA1	Infineon	N-Channel 60V 47A (Tc) 36W (Tc) Surface Mount PG-TDSON-8	PowerTDFN8
R1, R4	2	0	CRCW25120000Z0EG	Vishay-Dale	RES, 0, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R2	1	5.6	CRCW12065R60JNEA	Vishay-Dale	RES, 5.6, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R3	1	0	ERJ-8GEY0R00V	Panasonic	RES, 0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R5, R7, R8, R10	4	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R6	1	41.2k	CRCW060341K2FKEA	Vishay-Dale	RES, 41.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R9	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R11	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R12	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R13	1	14.3k	CRCW060314K3FKEA	Vishay-Dale	RES, 14.3 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R14	1	16.9k	CRCW060316K9FKEA	Vishay-Dale	RES, 16.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R15	1	3.24k	CRCW06033K24FKEA	Vishay-Dale	RES, 3.24 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R16	1	0.005	LRC-LRF3WLF-01-R005-F	TT Electronics/IRC	RES, 0.005, 1%, 3 W, 1225	1225
R17	1	3.32k	CRCW06033K32FKEA	Vishay-Dale	RES, 3.32 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R18	1	54.9k	CRCW060354K9FKEA	Vishay-Dale	RES, 54.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603

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R19	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
U1	1		LM5155QDSSRQ1	Texas Instruments	Automotive Grade 2.2-MHz Wide Input Non-synchronous Boost Controller, DSS0012C (WSON-12)	DSS0012C
Vin, Vout	2		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint

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