

PMP30520 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C7	3	150uF	EEHZC1V151P	Panasonic	CAP, Polymer Hybrid, 150 µF, 35 V,+/- 20%, 27 ohm	SMD 8x10
C3, C6, C8, C10	4	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V,+/- 10%, X7R, 1210	1210
C4	1	1200pF	GRM188R71H122KA01D	MuRata	CAP, CERM, 1200 pF, 50 V,+/- 10%, X7R, 0603	0603
C5, C9, C12	3	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0603	0603
C11	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 µF, 50 V,+/- 10%, X7R, 0805	0805
C13, C16	2	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, COG/NP0, 0603	0603
C14	1	4.7uF	GRM188Z71C475KE21D	MuRata	CAP, CERM, 4.7 µF, 16 V,+/- 10%, X7R, 0603	0603
C15	1	0.033uF	GRM188R71E333KA01D	MuRata	CAP, CERM, 0.033 µF, 25 V,+/- 10%, X7R, 0603	0603
C17, C18	2	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X7R, 0603	0603
C19, C100	2	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V,+/- 10%, X7R, 0603	0603
D1, D2	2	40V	VS-50WQ04FNTRHM3	Vishay-Semiconductor	Diode, Schottky, 40 V, 5.5 A, AEC-Q101, DPAK	DPAK
J1, J2	2		1725656	Phoenix Contact	Terminal Block, 100mil, 2x1, 6A, 63V, TH	6.2x8.5x5.54 mm
J3	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
L1	1	10uH	931BS-100M	MuRata Toko	Inductor, Shielded, Ferrite, 10 µH, 7.8 A, 0.011 ohm (due to stock used COILCRAFT MSS1210-103)	SMD 2-Pin, Body 12.3 x 12.3mm Height 8 mm
Q1, Q2	2	40V	IPD50N04S4-10	Infineon Technologies	MOSFET, N-CH, 40 V, 50 A, AEC-Q101, DPAK	DPAK
R1	1	3.30	CRCW12103R30FKEAHP	Vishay-Dale	RES, 3.30, 1%, 0.75 W, AEC-Q200 Grade 0, 1210	1210
R2	1	0.025	CSR1206FK25L0	Stackpole Electronics Inc	RES, 0.025, 1%, 0.5 W, 1206	1206
R3, R4, R10	3	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R5	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R6	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R7, R16	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R8	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R9	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R11	1	2.55k	CRCW06032K55FKEA	Vishay-Dale	RES, 2.55 k, 1%, 0.1 W, 0603	0603
R12	1	33.2k	CRCW060333K2FKEA	Vishay-Dale	RES, 33.2 k, 1%, 0.1 W, 0603	0603
R13	1	1.02k	CRCW06031K02FKEA	Vishay-Dale	RES, 1.02 k, 1%, 0.1 W, 0603	0603
R14	1	15.8k	CRCW060315K8FKEA	Vishay-Dale	RES, 15.8 k, 1%, 0.1 W, 0603	0603
R15	1	15.4k	CRCW060315K4FKEA	Vishay-Dale	RES, 15.4 k, 1%, 0.1 W, 0603	0603
TP1, TP4	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP3, TP9	3	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP5, TP6, TP10	3	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP7	1	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1		LM25118Q1MHX/NOPB	Texas Instruments	Automotive Grade, 3-42V Wide Vin, Current Mode Non-Synchronous Buck-Boost Controller	PWP0020A (TSSOP-20)

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