

PMP30210 REV B Bill of Materials



Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C10	3	10uF	GRM32ER71J106KA12L	MuRata	CAP, CERM, 10 µF, 63 V, +/- 10%, X7R, 1210	1210
C3, C102	2	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C5, C6	2	220uF	10SVPE220M	Panasonic	CAP, Aluminum Polymer, 220 µF, 10 V, +/- 20%, 0.02 ohm	F61 SMD
C7	1	47uF	GRM32ER71A476ME15L	MuRata	CAP, CERM, 47 µF, 10 V, +/- 20%, X7R, 1210	1210
C8	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
C9	1	68uF	EEHZC1J680P	Panasonic	CAP, Polymer Hybrid, 68 µF, 63 V, +/- 20%, 30 ohm	10x10 SMD
C11, C19	2	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603	0603
C12, C13	2	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0603	0603
C14	1	2.2uF	GRM31CR72A225KA73L	MuRata	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1206_190	1206_190
C15	1	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C16	1	0.022uF	GRM188R71C223KA01D	MuRata	CAP, CERM, 0.022 µF, 16 V, +/- 10%, X7R, 0603	0603
C17	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
C18	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C20	1	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, 1206	1206
C101	1	470pF	GRM188R72A471KA01D	MuRata	CAP, CERM, 470 pF, 100 V, +/- 10%, X7R, 0603	0603
D1, D2, D3	3	80V	MBR0580-TP	Micro Commercial Components	Diode, Schottky, 80 V, 0.5 A, SOD-123	SOD-123
J1, J2	2		1725656	Phoenix Contact	Terminal Block, 100mil, 2x1, 6A, 63V, THT	6.2x8.5x5.54 mm
J3	1		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, THT	Header, 3 PIN, 100mil, Tin
L1	1	47uH	MSD1583-473MEB	Coilcraft	Coupled inductor, 47 µH, 5.4 A, 0.1 ohm, SMD	IND_14.8x8.6x14.8mm, SMD
Q1, Q2	2	80V	BSZ070N08LS5	Infineon Technologies	MOSFET, N-CH, 80 V, 13 A, 8-PG-TSDSON	8-PG-TSDSON
R2	1	0.03	WSLP0805R0300FEB	Vishay-Dale	RES, 0.03, 1%, 0.5 W, 0805	0805
R3	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
R4	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R5, R6	2	100	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R7	1	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3 ohm, 5%, 0.1W, 0603	0603
R8	1	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, 0603	0603
R9, R12	2	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R10	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
R11	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R13	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 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	4.75	CRCW06034R75FKEA	Vishay-Dale	RES, 4.75, 1%, 0.1 W, 0603	0603
R101	1	4.7	RPC1206JT4R70	Stackpole Electronics Inc	RES, 4.7, 5%, 0.33 W, 1206	1206
TP1, TP4	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP3, TP9	3		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP5, TP6, TP8	3	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP7	1		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1		LM5122MH/NOPB	Texas Instruments	Wide Input Synchronous Boost Controller (TSSOP-20)	PWP0020A

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