

**PMP20021 REV A Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C3, C4	4	10uF	C3225X5R1H106M250AB	TDK	CAP, CERM, 10uF, 50V, +/-20%, X5R, 1210	1210
C5, C24, C25, C28, C29, C32, C35, C36	8	10uF		TDK	CAP, CERM, open, 1210	1210
C6, C7, C18, C19	4	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
C8, C20, C21, C30, C31	5	1000pF	C1608C0G1H102J	TDK	CAP, CERM, 1000pF, 50V, +/-5%, C0G/NP0, 0603	0603
C9	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C10	1	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C11	1	0.47uF	C0603C474K4RACTU	Kemet	CAP, CERM, 0.47uF, 16V, +/-10%, X7R, 0603	0603
C12, C13	2	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C16	1	220pF	C1608C0G1H221J	TDK	CAP, CERM, 220pF, 50V, +/-5%, C0G/NP0, 0603	0603
C17	1	0.033uF	GRM188R71H333KA61D	MuRata	CAP, CERM, 0.033uF, 50V, +/-10%, X7R, 0603	0603
C22, C26	2	390uF	20SVPF390M	Sanyo	CAP, OS-CON, 390uF, 20V, +/-20%, 0.014 ohm, 8x10 SMD	8x10
C23, C27	2	10uF	GMK325AB7106MM-T	Taiyo Yuden	CAP, CERM, 10uF, 35V, +/-20%, X7R, 1206	1206
C33, C34	2	2200pF	C0603C222K5RAC	Kemet	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	0603
C100	1	82uF		Sanyo	CAP, OS-CON, open	8x10
D1, D2	2	60V	PMEG6010CEH	NXP Semiconductor	Diode, Schottky, 60V, 1A, SOD-123F	SOD-123F
J1, J2	2		ED120/2DS	On Shore Technology	TERMINAL BLOCK 5.08MM VERT 2POS	TERM_BLK, 2pos, 5.08mm
L1, L2	2	5.6uH	XAL1010-562MEB	Coilcraft	Inductor, Shielded, Composite, 5.6uH, 21.2A, 0.01 ohm, SMD	Inductor, 11.3x10x10mm
Q1, Q2, Q3, Q4	4	40V	CSD18503Q5A	Texas Instruments	MOSFET, N-CH, 40V, 3.4 milliohm, SON 5x6mm	SON 5x6mm
R1	1	1.00	CRCW08051R00FKEA	Vishay-Dale	RES, 1.00 ohm, 1%, 0.125W, 0805	0805
R2	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603	0603L
R3	1	6.65k	CRCW06036K65FKEA	Vishay-Dale	RES, 6.65k ohm, 1%, 0.1W, 0603	0603L
R4	1	16.2k	CRCW060316K2FKEA	Vishay-Dale	RES, 16.2k ohm, 1%, 0.1W, 0603	0603
R7	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0k ohm, 1%, 0.1W, 0603	0603
R8	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
R10	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0k ohm, 1%, 0.1W, 0603	0603L
R11	1	1.43k	CRCW06031K43FKEA	Vishay-Dale	RES, 1.43 k, 1%, 0.1 W, 0603	0603
R14, R15	2	66.5k	CRCW060366K5FKEA	Vishay-Dale	RES, 66.5k ohm, 1%, 0.1W, 0603	0603
R16, R21, R22	3	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603L
R17	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R18, R20	2	0.003	WSL20103L000FEA	Vishay-Dale	RES, 0.003 ohm, 1%, 0.5W, 2010	2010
R23, R24, R31, R32	4	100	RC0603FR-07100RL	Yageo America	RES, 100 ohm, 1%, 0.1W, 0603	0603L
R25, R26	2	10	CRCW201010R0JNEFHP	Vishay-Dale	RES, 10 ohm, 5%, 1W, 2010	2010
R27, R28, R29, R30	4	2.2	CRCW06032R20JNEA	Vishay-Dale	RES, 2.2 ohm, 5%, 0.1W, 0603	0603
TP1, TP2, TP5, TP6, TP100, TP102, TP103	7	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Keystone5010
TP101	1	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Keystone5011
U1	1		LM25119PSQ/NOPB	Texas Instruments	LM25119/LM25119Q Wide Input Range Dual Synchronous Buck Controller, RTV0032A	RTV0032A

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