

PMP20093 REV C Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C11, C17	3	470pF	C1608C0G2A471J	TDK	CAP, CERM, 470 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
C2, C3, C4, C5	4	680uF	50ZL680MEFC12.5X25	Rubycon	CAP, AL, 680 μF, 50 V, +/- 20%, 2.86A, 0.021 ohm, TH	D12.5xL30mm
C6	1	270uF	EEHZA1V271P	Panasonic	CAP, Polymer Hybrid, 270 μF, 35 V, +/- 20%, 20 ohm, 10x10 SMD	10x10
C7, C13, C14, C15	4	4.7uF	GRM32ER71H475KA88L	MuRata	CAP, CERM, 4.7 μF, 50 V, +/- 10%, X7R, 1210	1210
C8, C9	2				CAP, CERM, 1210	1210
C10	1	1uF	C2012X7R1H105K125AB	TDK	CAP, CERM, 1 μF, 50 V, +/- 10%, X7R, 0805	0805
C12	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0603	0603
C16	1	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0603	0603
C18	1	68pF	GRM1885C1H680JA01D	MuRata	CAP, CERM, 68 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
C19, C22	2	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603	0603
C20	1	0.033uF	GRM188R71H333KA61D	MuRata	CAP, CERM, 0.033 μF, 50 V, +/- 10%, X7R, 0603	0603
C21	1	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0603	0603
C23	1	10uF	GRM21BZ71E106KE15L	MuRata	CAP, CERM, 10 μF, 25 V, +/- 10%, X7R, 0805	0805
D1	1	60V	PMEG6010CEH	NXP Semiconductor	Diode, Schottky, 60V, 1A, SOD-123F	SOD-123F
J1, J2	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
J3	1		PTT-103-01-L-S	Samtec	Header, 2mm, 3x1, Gold, TH	Header, 2mm, 3x1, TH
L1	1	6.8uH	IHLP8787MZER6R8M5A	Vishay-Dale	Inductor, Shielded, 6.8 μH, 36A, 0.00284 ohm, AEC-Q200 Grade 0, SMD	22x22.48mm
L2	1				Inductor, SMD, alternate footprint	11.3x10x10mm
Q1	1	DNP			MOSFET, N-CH, DNP	
Q2, Q3, Q4	3	60V	CSD18532Q5B	Texas Instruments	MOSFET, N-CH, 60 V, 172 A, DNK0008A (VSON-CLIP-8)	DNK0008A
R1	1	7.5	CRM2010-JW-7R5ELF	Bourns	RES, 7.5, 5%, 1 W, 2010	2010
R2	1	0.002	CSNL2512FT2L00	Stackpole Electronics Inc	RES, 0.002, 1%, 2 W, 2512	2512
R3	1	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3 ohm, 5%, 0.1W, 0603	0603
R4, R5, R9, R10	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R6, R14	2	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
R7, R8	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R11	1	7.87k	CRCW06037K87FKEA	Vishay-Dale	RES, 7.87 k, 1%, 0.1 W, 0603	0603
R12	1	158k	CRCW0603158KFKEA	Vishay-Dale	RES, 158 k, 1%, 0.1 W, 0603	0603
R13	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
R15	1	1.78k	CRCW06031K78FKEA	Vishay-Dale	RES, 1.78 k, 1%, 0.1 W, 0603	0603
R16, R17	2	35.7k	CRCW060335K7FKEA	Vishay-Dale	RES, 35.7 k, 1%, 0.1 W, 0603	0603
TP1, TP2, TP3, TP6	4	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Keystone5010
TP4, TP5, TP7	3	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Keystone5011
U1	1		LM5122MHX/NOPB	Texas Instruments	Wide Input Synchronous Boost Controller with Multiple Phase Capability, PWP0020A (TSSOP-20)	PWP0020A

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