

PMP20175 REV C Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	100uF	EEE-FK1V101P	Panasonic	CAP, AL, 100 uF, 35 V, +/- 20%, 0.16 ohm, AEC-Q200 Grade 2, SMD	SMT Radial F
C2, C4	2	10uF	GRM32DR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1210	1210
C3	1	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
C6, C7	2	47uF	GRM32EC81C476ME15L	MuRata	CAP, CERM, 47 uF, 16 V, +/- 20%, X6S, 1210	1210
C8	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
C9	1	68pF	GRM1885C1H680JA01D	MuRata	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C10, C11	2	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
C12	1	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
D1	1	40V	PDS1040L-13	Diodes Inc.	Diode, Schottky, 40 V, 10 A, PowerDI5	PowerDI5
J1, J2	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
L2, L3	2	6.8uH	MSS1048-682NLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 6.8 uH, 5.94 A, 0.02 ohm, SMD	MSS1048
Q1	1	40V	CSD18503Q5A	Texas Instruments	MOSFET, N-CH, 40 V, 100 A, DQJ0008A (VSONP-8)	DQJ0008A
Q2	1	60V	2N7002ET1G	ON Semiconductor	MOSFET, N-CH, 60 V, 0.26 A, SOT-23	SOT-23
R1	1	1.00	ERJ-8RQF1R0V	Panasonic	RES, 1.00, 1%, 0.25 W, 1206	1206
R2	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R3	1	45.3k	CRCW060345K3FKEA	Vishay-Dale	RES, 45.3 k, 1%, 0.1 W, 0603	0603
R4	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R5	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R6	1	0.01	CSRN2512FK10L0	Stackpole Electronics Inc	RES, 0.01, 1%, 2 W, 2512	2512
R7, R11	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R8	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R9	1	30.9k	CRCW060330K9FKEA	Vishay-Dale	RES, 30.9 k, 1%, 0.1 W, 0603	0603
R10	1	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, 0603	0603
TP1, TP3, TP4, TP7	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP5, TP6	3		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		LM3481MM	Texas Instruments	High Efficiency Low-Side N-Channel Controller for Switching Regulators, 10-pin MSOP, Pb-Free	DGS0010A
C5	0	180uF	25SVPF180M	Panasonic	CAP, Aluminum Polymer, 180 uF, 25 V, +/- 20%, 0.016 ohm, 2-Pin SMD, Body 8.3 x 8.3 mm, Height 12 mm SMD	2-Pin SMD, Body 8.3 x 8.3 mm, Height 12 mm
L1	0	2.5uH	MSD1514-252MEB	Coilcraft	Coupled inductor, 2.5 uH, 30.5 A, 0.010 ohm, SMD	15x15mm

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