

PMP31246 REV C Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C3	3	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
C5	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	805
C6	1	1uF	GRM21BR71A105KA01L	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0805	805
C7	1	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, 0603	603
C8	1	68uF	EEHZC1H680P	Panasonic	CAP, Polymer Hybrid, 68 uF, 50 V, +/- 20%, 30 ohm, 8x10 SMD	8x10
C12	1	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C13	1	1000pF	GRM155R61E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X5R, 0402	402
C14	1	0.22uF	GRM155R71C224KA12D	MuRata	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	402
C15	1	1500pF	GRM188R71H152KA01D	MuRata	CAP, CERM, 1500 pF, 50 V, +/- 10%, X7R, 0603	603
C16	1	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
D2	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	805
D3	1	100V	PDS3100Q-13	Diodes Inc.	Diode, Schottky, 100 V, 3 A, AEC-Q101, PowerDI5	PowerDI5
J1, J2	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
J3, J201	2		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
J4	1		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
L1	1	10uH	MSC1278-103ML	Coilcraft	Coupled inductor, 10 uH, 10.5 A, 0.058 ohm, AEC-Q200 Grade 3, TH	12.3x12.3mm
Q1	1	100V	NVMFS027N10MCL	ON Semiconductor	MOSFET, N-CH, 100 V, 20 A, AEC-Q101, DFN5 5x6mm	DFN5 5x6mm
R1	1	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10, 5%, 0.125 W, 0805	805
R2, R5	2	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R3	1	140k	CRCW0603140KFKEA	Vishay-Dale	RES, 140 k, 1%, 0.1 W, 0603	603
R4	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R6	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	603
R7	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	603
R8	1	0.01	WSP1206R0100FEA	Vishay-Dale	RES, 0.01, 1%, 1 W, 1206	1206
R10	1	28.0k	CRCW060328K0FKEA	Vishay-Dale	RES, 28.0 k, 1%, 0.1 W, 0603	603
R11	1	220k	CRCW0603220KJNEA	Vishay-Dale	RES, 220 k, 5%, 0.1 W, 0603	603
R12	1	2.10k	CRCW06032K10FKEA	Vishay-Dale	RES, 2.10 k, 1%, 0.1 W, 0603	603
R13	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	603
R201	1	8.45k	CRCW06038K45FKEA	Vishay-Dale	RES, 8.45 k, 1%, 0.1 W, 0603	603
TP1, TP2	2		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP3	1		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP4	1		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP5	1		5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
U1	1			Texas Instruments	2.2-MHz Wide VIN 65-V Non-synchronous Boost/SEPIC/Flyback Controller with Dual Random Spread Spectrum	WSO12
C4	0	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
C9, C10	0	220uF	HHXC250ARA221MHA0G	Chemi-Con	CAP, Aluminum Polymer, 220 uF, 25 V, +/- 20%, 0.027 ohm, AEC-Q200 Grade 2, D8xL10mm SMD	D8xL10mm
C11	0	0.1uF	GRM155R71H104ME14D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 20%, X7R, 0402	402
D1	0	100V	BAS16LT1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOT-23	SOT-23
R9	0	0.015	CSR1206FK15L0	Stackpole Electronics Inc	RES, 0.015, 1%, 0.5 W, 1206	1206

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