

PMP41012 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C10	2	10uF	B43851A9106M	TDK	CAP, AL, 10 uF, 400 V, +/- 20%, 18 ohm, TH	D10xL20mm
C4	1	2200pF	GRM31BR72J222KW01L	MuRata	CAP, CERM, 2200 pF, 630 V,+/- 10%, X7R, 1206	1206
C6, C7	2	1000uF	EEU-FR1E102B	Panasonic	CAP, AL, 1000 uF, 25 V, +/- 20%, 0.02 ohm, TH	Cap 10x20mm
C8	1	10uF	GRM32DR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1210	1210
C9, C17	2	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
C11	1	2200pF	AY2222M35Y5US63L7	Vishay-Bccomponents	CAP, CERM, 2200 pF, X1 440 VAC/Y2 300 VAC, +/- 20%, Y5U, AEC-Q200 Grade 1, D9.5xT5mm	D9.5xT5mm
C13	1	2.2uF	CGA4J3X7R1H225K125AB	TDK	CAP, CERM, 2.2 uF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C18	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C19	1	0.33uF	GRM319R71H334KA01D	MuRata	CAP, CERM, 0.33 uF, 50 V, +/- 10%, X7R, 1206	1206
C20	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
C21	1	0.47uF	GRM188R71C474KA88D	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, 0603	0603
C22	1	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0603	0603
C23	1	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
D1	1	150V	MBRD20150CT-13	Diodes Inc.	Diode, Schottky, 150 V, 10 A, DPAK	DPAK
D2	1	1000V	RS1MB-13-F	Diodes Inc.	Diode, P-N, 1000 V, 1 A, SMB	SMB
D3	1	20V	MMSZ5250B-7-F	Diodes Inc.	Diode, Zener, 20 V, 500 mW, SOD-123	SOD-123
D4	1	250V	BAV21WS-7-F	Diodes Inc.	Diode, Switching, 250 V, 0.25 A, AEC-Q101, SOD-323	SOD-323
D8	1	15V	MMSZ5245B-7-F	Diodes Inc.	Diode, Zener, 15 V, 500 mW, SOD-123	SOD-123
D10	1	5.1V	MMSZ5231B-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 500 mW, SOD-123	SOD-123
J2	1		1757242	Phoenix Contact	Header (Shrouded), 5.08 mm, 2x1, Tin, R/A, TH	Header, 5.08 mm, 2x1, R/A, TH
Q1	1	600V	FQT1N60CTF-WS	Infineon	MOSFET, N-CH, 600 V, SOT-223	SOT-223
Q3	1	800V	STF10N80K5	STMicroelectronics	MOSFET, N-CH, 800 V, 9 A, TO-220FP	TO-220FP
Q4	1	40 V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
R1, R7, R10, R14	4	200k	CRCW1206200KJNEA	Vishay-Dale	RES, 200 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R2	1	47.0k	RC0603FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.1 W, 0603	0603
R3	1	100	CRCW1206100RJNEA	Vishay-Dale	RES, 100, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R4	1	10.0k	CRCW120610K0FKEAHP	Vishay-Dale	RES, 10.0 k, 1%, 0.5 W, AEC-Q200 Grade 0, 1206	1206
R5	1	220k	PR03000202203JAC00	Vishay-Bccomponents	RES, 220 k, 5%, 3 W, D5.20xL16.70mm	D5.20xL16.70mm
R8, R11, R15	3	499k	CRCW1206499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R9	1	20.0	CRCW201020R0FKEF	Vishay-Dale	RES, 20.0, 1%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R12	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, 0603	0603
R13	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R16	1	4.30k	RC0603FR-074K3L	Yageo America	RES, 4.30 k, 1%, 0.1 W, 0603	0603
R17	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R18	1	205k	CRCW0603205KFKEA	Vishay-Dale	RES, 205 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R19	1	20.0	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, 0603	0603
R20	1	8.20k	RC0603FR-078K2L	Yageo America	RES, 8.20 k, 1%, 0.1 W, 0603	0603
R21, R23	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R22, R28	2	2.2k	PR02000202201JR500	Vishay-Bccomponents	RES, 2.2 k, 5%, 2 W, AEC-Q200 Grade 0, Axial resistor	Axial resistor
R24	1	1.62k	CRCW06031K62FKEA	Vishay-Dale	RES, 1.62 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R25	1	0.075	ERJ-8BWF075V	Panasonic	RES, 0.075, 1%, 0.5 W, 1206	1206
R26	1	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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R27	1	221k	CRCW0603221KFKEA	Vishay-Dale	RES, 221 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
T1	1			Würth Elektronik Midcom	Transformer flyback, Horizontal	
TP1	1		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP2	1		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1		LM51561QDSSRQ1	Texas Instruments	2.2-MHz Wide VIN 65-V Non-synchronous Boost/SEPIC/Flyback Controller with Dual Random Spread Spectrum, DSS0012C (WSON-12)	DSS0012C
C2, C3	0	0.022uF	GRM32DR73A223KW01L	MuRata	CAP, CERM, 0.022 uF, 1000 V, +/- 10%, X7R, 1210	1210
C5	0	1000pF	GRM21AR72E102KW01D	MuRata	CAP, CERM, 1000 pF, 250 V, +/- 10%, X7R, 0805	0805
R6	0	1.0	CRCW12061R00JNEA	Vishay-Dale	RES, 1.0, 5%, 0.25 W, 1206	1206

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