

PMP30104 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	330pF	GRM188R71H331KA01D	MuRata	CAP, CERM, 330pF, 50V, +/-10%, X7R, 0603	0603
C2	1	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22uF, 25V, +/-10%, X7R, 0603	0603
C3, C13	2	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0603	0603
C4	1	220uF	EEE-FC1E221P	Panasonic	CAP, AL, 220 uF, 25 V, +/- 20%, 0.15 ohm, SMD	SMT Radial G
C5	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
C6, C7	2	10uF	C2012X5R1E106K125AB	TDK	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	0805
C8	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	0805
C9	1	100pF	06033C101KAT2A	AVX	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	0603
C10	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
C11, C12	2	10uF	C3216X5R1H106K160AB	TDK	CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, 1206	1206
C14	1	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603
C15	1	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C16	1	100uF	EEE-FK1E101XP	Panasonic	CAP, AL, 100 uF, 25 V, +/- 20%, 0.34 ohm, SMD	SMT Radial D8
Cm1, Cm2, Cm3, Cm4, Cm5, Cm6, Cm7, Cm8, Cm9, Cm10, Cm11	11	2.2uF	GRM31CR72A225KA73K	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1206_190	1206_190
D1, D2	2	6.8V	MMSZ5235BS-7-F	Diodes Inc.	Diode, Zener, 6.8V, 200mW, SOD-323	SOD-323
D3, D4	2	BAS16-7-F	BAS16-7-F	Diodes Inc.	Diode, Ultrafast, 75V, 0.3A, SOT-23	SOT-23
Dm1, Dm2, Dm3, Dm4, Dm5, Dm6	6	STPS1150A	STPS1150A	STMicroelectronics	Diode, Schottky, 150 V, 1 A, SMA	SMA
J1	1		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
J2	1		691 101 710 002	Würth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
L1	1	47uH	7447709470	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 47 uH, 3.8 A, 0.04593 ohm, SMD	SMD
Lm1, Lm2, Lm3, Lm4, Lm5, Lm6	6	1mH	74477730	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 1 mH, 0.2 A, 3.27 ohm, SMD	SMD
Q1	1	MMBT2222A	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40V, 0.15A, SOT-23	SOT-23
Q2	1	BSZ520N15NS3 G	BSZ520N15NS3 G	Infineon Technologies	MOSFET, N-CH, 150 V, 21 A, PG-TSDSON-8	PG-TSDSON-8
Q3	1	BSS138W-7-F	BSS138W-7-F	Diodes Inc.	MOSFET, N-CH, 50 V, 0.2 A, SOT-323	SOT-323
R1, R3	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603	0603
R2, R4	2	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0k ohm, 1%, 0.1W, 0603	0603
R5	1	3.92k	CRCW06033K92FKEA	Vishay-Dale	RES, 3.92k ohm, 1%, 0.1W, 0603	0603
R6, R8, R24	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R7	1	261k	RC0603FR-07261KL	Yageo America	RES, 261 k, 1%, 0.1 W, 0603	0603
R9	1	4.64	CRCW06034R64FKEA	Vishay-Dale	RES, 4.64 ohm, 1%, 0.1W, 0603	0603
R10	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9 ohm, 1%, 0.1W, 0603	0603
R11	1	2.21	RC0603FR-072R21L	Yageo America	RES, 2.21, 1%, 0.1 W, 0603	0603
R12, R20	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603, RES, 1.00 k, 1%, 0.1 W, 0603	0603
R13	1	0.025	CSRN2010FK25L0	Stackpole Electronics Inc	RES, 0.025 ohm, 1%, 1W, 2010	2010
R14	1	25.5k	RC0603FR-0725K5L	Yageo America	RES, 25.5 k, 1%, 0.1 W, 0603	0603
R15, R16, R17, R18	4	1.00Meg	RC1206FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.25 W, 1206	1206
R19	1	24.9k	RC0603FR-0724K9L	Yageo America	RES, 24.9 k, 1%, 0.1 W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R21	1	1.50	RC0805FR-071R5L	Yageo America	RES, 1.50, 1%, 0.125 W, 0805	0805
R22	1	392k	RC0603FR-07392KL	Yageo America	RES, 392 k, 1%, 0.1 W, 0603	0603
R23	1	10.0	RC0805FR-0710RL	Yageo America	RES, 10.0, 1%, 0.125 W, 0805	0805
TP1, TP5, TP8	3	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP4	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP3	1	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1	TPS40210DGQR	TPS40210DGQR	Texas Instruments	4.5-V TO 52-V INPUT CURRENT MODE BOOST CONTROLLER, DGQ0010D	DGQ0010D
U2	1	TLC272CD	TLC272CD	Texas Instruments	IC, Precision Dual Operational Amplifiers	SO8

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