

PMP20430 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I/PCB?	1		PMP20107 REVA	Any	PMP20107 REVA	N/A
C1, C4, C15	3	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C2	1	0.22uF	C1005X5R1E224M050BC	TDK	CAP, CERM, 0.22 µF, 25 V, +/- 20%, X5R, 0402	0402
C6	1	1uF	C1005X5R1C105K050BC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0402	0402
C8, C10, C16	3	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C9, R7, RL1	3	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
C11, C13	2	0.047uF	C1005X7R1H473K050BB	TDK	CAP, CERM, 0.047 µF, 50 V, +/- 10%, X7R, 0402	0402
C14	1	0.022uF	GRM155R71E223KA61D	MuRata	CAP, CERM, 0.022 µF, 25 V, +/- 10%, X7R, 0402	0402
C17	1	220pF	C1005X7R1H221K	TDK	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0402	0402
Cin1, Cin2, Cin3, Co1, Co2, Co3	6	10uF	UMK325AB7106KM-T	Taiyo Yuden	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210
D1	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D2, D3	2	100V	BAS516,115	NXP Semiconductor	Diode, Switching, 100V, 0.25A, SOD-523	SOD-523
D4	1	8.2V	MMSZ5237BS-7-F	Diodes Inc.	Diode, Zener, 8.2 V, 200 mW, SOD-323	SOD-323
D5	1	40V	CUS05S40,H3F	Toshiba	Diode, Schottky, 40 V, 0.5 A, SOD-323	SOD-323
L1	1	15uH	74437349150	Würth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 15 µH, 2.75 A, 0.092 ohm, SMD	7.30x4.80x6.60mm
Q1, Q2, Q3, Q4	4	100V	CSD19538Q3A	Texas Instruments	MOSFET, N-CH, 100 V, 5 A, VSONP-8	DNH0008A
R1	1	71.5k	CRCW040271K5FKED	Vishay-Dale	RES, 71.5 k, 1%, 0.063 W, 0402	0402
R2, R3, R5, R6	4	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
R4	1	11.0k	CRCW040211K0FKED	Vishay-Dale	RES, 11.0 k, 1%, 0.063 W, 0402	0402
R9	1	20k	CRCW040220K0JNED	Vishay-Dale	RES, 20 k, 5%, 0.063 W, 0402	0402
R10	1	1.50k	CRCW04021K50FKED	Vishay-Dale	RES, 1.50 k, 1%, 0.063 W, 0402	0402
R12	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, 0402	0402
R13, R15	2	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R18	1	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
R21	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
R24	1	1.65k	CRCW04021K65FKED	Vishay-Dale	RES, 1.65 k, 1%, 0.063 W, 0402	0402
RH1	1	3.0	CRCW04023R00JNED	Vishay-Dale	RES, 3.0, 5%, 0.063 W, 0402	0402
RS1	1	0.02	PRL1632-R020-F-T1	Susumu Co Ltd	RES, 0.02, 1%, 1 W, 0612	0612
U1	1		LM5175RHFR	Texas Instruments	42-V Wide VIN Synchronous 4-Switch Buck-Boost Controller, RHF0028A	RHF0028A
Co4	0	100uF	UUD1A101MCL1GS	Nichicon	CAP, AL, 100 µF, 10 V, +/- 20%, 0.44 ohm, SMD	6.3x5.8
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R11	0	95.3k	CRCW040295K3FKED	Vishay-Dale	RES, 95.3 k, 1%, 0.063 W, 0402	0402

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