

**PMP9802 REV A Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C17	2	100uF	EEU-FM1E101	Panasonic	CAP, AL, 100 µF, 25 V, +/- 20%, 0.13 ohm, TH	6.3x11.2mm
C2, C6	2	10uF	GRM219R61E106KA12	MuRata	CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0805	0805
C3, C4	2	1000uF	EEU-FR1C102L	Panasonic	CAP, AL, 1000 µF, 16 V, +/- 20%, 0.03 ohm, TH	CAP, 8x20mm
C5, C8, C9, C16, C18, C20, C21	7	22uF	GRM21BR61A226ME44L	MuRata	CAP, CERM, 22 µF, 10 V, +/- 20%, X5R, 0805	0805
C7	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C10	1	0.33uF	GRM188R71A334KA61D	MuRata	CAP, CERM, 0.33 µF, 10 V, +/- 10%, X7R, 0603	0603
C12	1	0.1uF	GRM188R61C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X5R, 0603	0603
C14	1	35F	DR2R7356R	Korchip	Super Capacitor, 35F, 2.7V	16x35
C15	1	2.2uF	GRM188R60J225KE19D	MuRata	CAP, CERM, 2.2 µF, 6.3 V, +/- 10%, X5R, 0603	0603
C19	1	4700pF	GRM188R61H472KA01D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X5R, 0603	0603
C22	1	0.01uF	GRM188R61H103KA01D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X5R, 0603	0603
D1, D2	2	30V	B230A-13-F	Diodes Inc.	Diode, Schottky, 30 V, 2 A, SMA	SMA
D3	1	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
D4	1	5.1V	MMSZ5231B-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 500 mW, SOD-123	SOD-123
L1, L2, L3	3	1uH	XAL4020-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 µH, 8.75 A, 0.01 ohm, SMD	4x2.1x4mm
Q1	1	20V	SI1012R-T1-GE3	Vishay-Siliconix	MOSFET, N-CH, 20 V, 0.6 A, SOT-416	SOT-416
Q2, Q4, Q5, Q6	4	40 V	MMBT3904-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
R1, R3, R5, R6, R10, R16, R22, R29, R30	9	100k	RC0603FR-07100KL	Yageo America	RES, 100 k, 1%, 0.1 W, 0603	0603
R2, R4, R8, R14, R32, R33, R34	7	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R7	1	787k	CRCW0603787KFKEA	Vishay-Dale	RES, 787 k, 1%, 0.1 W, 0603	0603
R9	1	23.7k	RC0603FR-0723K7L	Yageo America	RES, 23.7 k, 1%, 0.1 W, 0603	0603
R11, R12, R25, R26	4	100	RC1206FR-07100RL	Yageo America	RES, 100, 1%, 0.25 W, 1206	1206
R13	1	140k	RC0603FR-07140KL	Yageo America	RES, 140 k, 1%, 0.1 W, 0603	0603
R15	1	3.00k	RC0603FR-073KL	Yageo America	RES, 3.00 k, 1%, 0.1 W, 0603	0603
R17	1	301k	CRCW0603301KFKEA	Vishay-Dale	RES, 301 k, 1%, 0.1 W, 0603	0603
R18	1	17.4k	CRCW060317K4FKEA	Vishay-Dale	RES, 17.4 k, 1%, 0.1 W, 0603	0603
R19	1	280k	CRCW0603280KFKEA	Vishay-Dale	RES, 280 k, 1%, 0.1 W, 0603	0603
R21	1	127k	CRCW0603127KFKEA	Vishay-Dale	RES, 127 k, 1%, 0.1 W, 0603	0603
R24	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R27	1	5.90k	RC0603FR-075K9L	Yageo America	RES, 5.90 k, 1%, 0.1 W, 0603	0603
R28	1	1.00k	RC0603FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R31	1	5.11k	RC0603FR-075K11L	Yageo America	RES, 5.11 k, 1%, 0.1 W, 0603	0603
U1	1		TLV62130RGTR	Texas Instruments	4-17V 3A Step-Down Converter with DCS-Control, RGT0016C	RGT0016C
U2, U5	2		ATL431AIDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A	DBZ0003A
U3	1		TLV62084DSGR	Texas Instruments	2A High Efficient Step Down Converter in 2x2mm SON Package, DSG0008A	DSG0008A
U4	1		TPS61089RNR	Texas Instruments	12.6-V, 7-A FULLY INTEGRATED SYNCHRONOUS BOOST CONVERTER IN 2.0mm x 2.5mm QFN PACKAGE, RNR0011A	RNR0011A

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