

**PMP30831 REV B Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C6, C10	3	DNP	DNP	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C2, C5	2	22uF	UCS2G220MHD	Nichicon	CAP, AL, 22 $\mu$ F, 400 V, +/- 20%, TH	D12.5xL20mm
C3	1	270uF	16SVPF270M	Panasonic	CAP, Aluminum Polymer, 270 uF, 16 V, +/- 20%, 0.022 ohm, 8.0x7.0mm SMD	8.0x7.0mm
C4	1	2.2uF	C1206C225K4RACTU	Kemet	CAP, CERM, 2.2 $\mu$ F, 16 V, +/- 10%, X7R, 1206	1206
C7	1	0.1uF	890324023023	Würth Elektronik	CAP, Film, 0.1 $\mu$ F, V, +/- 10%, TH	13x7mm
C8	1	22uF	GRM32ER61E226KE15L	MuRata	CAP, CERM, 22 $\mu$ F, 25 V, +/- 10%, X5R, 1210	1210
C9	1	10uF	GRM32DR71E106KA12L	MuRata	CAP, CERM, 10 $\mu$ F, 25 V, +/- 10%, X7R, 1210	1210
C11	1	120uF	35SVPF120M	Panasonic	CAP, Aluminum Polymer, 120 uF, 35 V, +/- 20%, 0.018 ohm, F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm SMD	F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm
C12	1	2.2uF	GRM31CR71H225KA88L	MuRata	CAP, CERM, 2.2 $\mu$ F, 50 V, +/- 10%, X7R, 1206	1206
C13	1	4.7uF	GRM31CR71H475KA12L	MuRata	CAP, CERM, 4.7 $\mu$ F, 50 V, +/- 10%, X7R, 1206	1206
C14	1	1uF	C0805C105K5RACTU	Kemet	CAP, CERM, 1 $\mu$ F, 50 V, +/- 10%, X7R, 0805	0805
C15, C17, C19, C20	4	DNP	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C16	1	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 $\mu$ F, 50 V, +/- 10%, X7R, 0603	0603
C18	1	6800pF	GRM188R71H682KA01D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0603	0603
C21, C22	2	1500pF	DE2E3KY152MN3AM02F	MuRata	CAP, CERM, 1500 pF, X1 250 VAC/Y2 300 VAC, +/- 20%, E, TH, 2-Leads, Body 7x5mm, Pin Spacing 7.5mm	TH, 2-Leads, Body 7x5mm, Pin Spacing 7.5mm
D1	1		V20PW60	Vishay	Diode, Schottky, 60V, 20A, [PackageReference]	Used in PnP output and some BOM reports
D2	1	600V	Z4DGP406L-HF	Comchip Technology	Diode, P-N-Bridge, 600 V, 4 A, Z4-D	Z4-D
D3	1	150V	SMCJ150A-TP	Micro Commercial Component	Diode, TVS, Uni, 150 V, 243 Vc, SMC	SMC
D4	1	11V	1SMA5926BT3G	ON Semiconductor	Diode, Zener, 11 V, 1.5 W, SMA	SMA
D5	1	400V	ES1G-13-F	Diodes Inc.	Diode, Superfast Rectifier, 400 V, 1 A, SMA	SMA
D6	1	150V	30BQ150TR	SMC Diode Solutions	Diode, Schottky, 150 V, 3 A, SMC	SMC
D7	1	22V	3SMAJ5933B-TP	Micro Commercial Component	Diode, Zener, 22 V, 3 W, SMA	SMA
D8	1	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
D9	1		STD15150	SMC Diode Solutions	Diode, Schottky, 150V, 15A, [PackageReference]	Used in PnP output and some BOM reports
D10	1	DNP	DNP	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
F1	1		37212500001	Littelfuse	Fuse, 2.5 A, 250VAC/VDC, TH	TR5 fuse 8.5mm DIA
L1	1	220uH	DO3340P-224MLB	Coilcraft	Inductor, Drum Core, Ferrite, 220 uH, 0.7 A, 0.44 ohm, SMD	15.95x11.43x9.4mm
L2	1	2.2mH	744822222	Würth Elektronik	Coupled inductor, 2.2 mH, A, 0.07 ohm, TH	14.7x13mm
Q1	1	600V	IPD60R600C6ATMA1	Infineon Technologies	MOSFET, N-CH, 600 V, 7.3 A, AEC-Q101, DPAK	DPAK
R1, R3, R7, R20, R24	5	DNP	DNP	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R2, R4, R6, R19, R25	5	DNP	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R5	1	49.9	CRCW251249R9FKEG	Vishay-Dale	RES, 49.9, 1%, 1 W, AEC-Q200 Grade 0, 2512	2512
R8	1	33	CRCW080533R0JNEA	Vishay-Dale	RES, 33, 5%, 0.125 W, 0805	0805
R9, R10	2	4.99Meg	CRCW08054M99FKEA	Vishay-Dale	RES, 4.99 M, 1%, 0.125 W, 0805	0805
R11	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R12	1	237k	CRCW0603237KFKEA	Vishay-Dale	RES, 237 k, 1%, 0.1 W, 0603	0603
R13	1	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R14	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R15	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603
R16	1	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, 0603	0603
R17	1	1.87k	CRCW06031K87FKEA	Vishay-Dale	RES, 1.87 k, 1%, 0.1 W, 0603	0603
R18	1	48.7k	CRCW060348K7FKEA	Vishay-Dale	RES, 48.7 k, 1%, 0.1 W, 0603	0603
R21	1	0.39	ERJ-6RQFR39V	Panasonic	RES, 0.39, 1%, 0.125 W, 0805	0805
R22	1	23.2k	CRCW060323K2FKEA	Vishay-Dale	RES, 23.2 k, 1%, 0.1 W, 0603	0603
R23	1	32.4k	CRCW060332K4FKEA	Vishay-Dale	RES, 32.4 k, 1%, 0.1 W, 0603	0603
R26	1	4.02k	CRCW06034K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, 0603	0603
RT1	1	SHORT	SHORT	TDK	Thermistor NTC, 5 ohm, 20%, D14.5xT7mm	D14.5xT7mm
T1	1		750319059r00	Würth Electronics	TRANSFORMER	PTH_XFRMR_32MM 25_27MM05
TP1, TP4, TP7, TP9	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP5	2	Double	1503-2	Keystone	Terminal, Turret, TH, Double	Keystone1503-2
TP3, TP6, TP8, TP10	4		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		UCC28742DBVR	Texas Instruments	High-Efficiency Low-Cost Flyback Controller with Secondary-Side Regulation, DBV0006A (SOT-23-6)	DBV0006A
U2	1		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U3	1		ATL431LIBQDBZR	Texas Instruments	High Bandwidth Low-Iq Programmable Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

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