

## PMP30197 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	DNP	DNP	MuRata	CAP, CERM, 3300 pF, 300 V, +/- 20%, E, D10xT7mm	D10xT7mm
C2	1	2.2uF	C3216X7R1H225K160AB	TDK	CAP, CERM, 2.2 $\mu$ F, 50 V, +/- 10%, X7R, 1206	1206
C3, C6, C8, C13, C25, D4, R1, R2, R12, R15, R27	11	DNP	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference], CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference], CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference], CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference], Diode, Zener, xxV, xxxmW, [PackageReference], RES, xxx ohm, x%, xW, [PackageReference], RES, xxx ohm, x%, xW, [PackageReference], RES, xxx ohm, x%, xW, [PackageReference], RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
C4	1	22uF	GCM31CR71A226KE02	MuRata	CAP, CERM, 22 $\mu$ F, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C5	1	220uF	APXE100ARA221MH70G	Chemi-Con	CAP, AL, 220 $\mu$ F, 10 V, +/- 20%, 0.021 ohm, SMD	H70
C7, C16, C22, C24, R11, R24	6	TBD	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference], CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference], CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference], RES, xxx ohm, x%, xW, [PackageReference], RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
C9, C18	2	0.1uF	GRM21BR71H104KA01L	MuRata	CAP, CERM, 0.1 $\mu$ F, 50 V, +/- 10%, X7R, 0805	0805
C10	1	0.01uF	C0603C103J5RACTU	Kemet	CAP, CERM, 0.01 $\mu$ F, 50 V, +/- 5%, X7R, 0603	0603
C11	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 $\mu$ F, 50 V, +/- 10%, X7R, 0805	0805
C12	1	22uF	GRM31CR71A226KE15L	MuRata	CAP, CERM, 22 $\mu$ F, 10 V, +/- 10%, X7R, 1206	1206
C14, C26	2	2.2uF	GRM219R71C225KE15	MuRata	CAP, CERM, 2.2 $\mu$ F, 16 V, +/- 10%, X7R, 0805	0805
C15, C21	2	10uF	GRM31CR71C106KAC7L	MuRata	CAP, CERM, 10 $\mu$ F, 16 V, +/- 10%, X7R, 1206	1206
C17	1	0.047uF	GRM188R71H473KA61D	MuRata	CAP, CERM, 0.047 $\mu$ F, 50 V, +/- 10%, X7R, 0603	0603
C19	1	1uF	GRM21BR71C105KA01L	MuRata	CAP, CERM, 1 $\mu$ F, 16 V, +/- 10%, X7R, 0805	0805
C20	1	DNP	GRM31CR71C106KAC7L	MuRata	CAP, CERM, 10 $\mu$ F, 16 V, +/- 10%, X7R, 1206	1206
C23	1	0.022uF	C0603X223K5RACTU	Kemet	CAP, CERM, 0.022 $\mu$ F, 50 V, +/- 10%, X7R, 0603	0603
D1, D5	2	MBRA120	MBRA120T3G	ON Semiconductor	Diode, Schottky, 20 V, 1 A, SMA	SMA
D2	1	DNP	BZX84C6V8LT1G	ON Semiconductor	Diode, Zener, 6.8 V, 225 mW, SOT-23	SOT-23
D3	1	6.8V	BZX84C6V8LT1G	ON Semiconductor	Diode, Zener, 6.8 V, 225 mW, SOT-23	SOT-23
D6	1	SHORT	MBRA120T3G	ON Semiconductor	Diode, Schottky, 20 V, 1 A, SMA	SMA
D7	1	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
D8	1		DNP	Used in BOM report	Diode, Schottky, xxV, xxA, [PackageReference]	Used in PnP output and some BOM reports
D9	1	30V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
Q1, Q2, Q3	3	25V	CSD16340Q3	Texas Instruments	MOSFET, N-CH, 25 V, 60 A, DQG0008A (VSON-CLIP-8)	DQG0008A
R3, R5, R6, R7, R9, R16	6	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R4, R18	2	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R8, R21	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R10	1	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R13	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R14	1	866	CRCW0603866RFKEA	Vishay-Dale	RES, 866, 1%, 0.1 W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R17, R20, R26, R28	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R19	1	2.32k	CRCW06032K32FKEA	Vishay-Dale	RES, 2.32 k, 1%, 0.1 W, 0603	0603
R22	1	154k	CRCW0603154KFKEA	Vishay-Dale	RES, 154 k, 1%, 0.1 W, 0603	0603
R23	1	DNP	CRCW06032K49FKEA	Vishay-Dale	DNP	0603
R25	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R29	1	4.64k	CRCW06034K64FKEA	Vishay-Dale	RES, 4.64 k, 1%, 0.1 W, 0603	0603
R30	1	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
T1	1	15uH	750316697	Würth Elektronik	Transformer, 15 uH, TH	33x26.3mm
TP1, TP2, TP4	3		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP5, TP6	3		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		LP2985AIM5-5.0	Texas Instruments	Micropower 150 mA Low-Noise Ultra Low-Dropout Regulator, 5-pin SOT-23	MF05A
U2	1		LM2743MTC	Texas Instruments	Low Voltage N-Channel MOSFET Synchronous Buck Regulator Controller, 14-pin TSSOP	MTC14
U3	1		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U4	1		LMV431AIMFX/NOPB	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulators, 3-pin SOT-23, Pb-Free	MF03A

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