

**PMP31431\_RevB BOM**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB1	1		XXX###	Any	Printed Circuit Board	
C1, C2	2	33uF	EEE-FK2A330P	Panasonic	CAP, AL, 33 uF, 100 V, +/- 20%, 0.7 ohm, AEC-Q200 Grade 2, SMD	SMT Radial G
C3, C4, C5	3	4.7uF	GCM32DC72A475KE02L	MuRata	CAP, CERM, 4.7 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
C6	1	1uF	CGA4J3X7S2A105K125AB	TDK	CAP, CERM, 1 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0805	0805
C7, C9	2	0.1uF	HMK107B7104MAHT	Taiyo Yuden	CAP, CERM, 0.1 uF, VAC/100 VDC, +/- 20%, X7R, AEC-Q200 Grade 1, 0603	0603
C8	1	0.1uF	0402YC104KAT2A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
C10, C11, C12	3	4.7uF	C1210C475K5RACAUTO	Kemet	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C13	1	150uF	EEH-ZS1H151P	Panasonic	150uF 50V Aluminum - Polymer Capacitors 17mOhm 4000 Hrs @ 125°C	RADIAL
C14	1	DNP	EEH-ZS1H151P	Panasonic	DNP	RADIAL
C15	1	2.2uF	C2012X7R1H225M125AC	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 20%, X7R, 0805	0805
C16, C17, C18, C19	4	DNP	DNP	Kemet	DNP	1210
C20	1	100pF	CL10B101KB8NNNC	Samsung Electro-Mechanics	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0603	0603
C21	1	1uF	CGA3E1X7R1V105K080AE	TDK	CAP, CERM, 1 uF, 35 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C22	1	82pF	C0603C820K5GACTU	Kemet	CAP, CERM, 82 pF, 50 V, +/- 10%, C0G/NP0, 0603	0603
C23	1	4700pF	C0603X472K5RACTU	Kemet	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0603	0603
C24	1	DNP	DNP	Kemet	DNP	0603
C25, C26	2	0.1uF	C0603C104J5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 0603	0603
J1, J3	2		282856-2	TE Connectivity	Thermal Block, 5 mm, 2-pole, Tin, TH	TH, 2-Leads, Body 10x10mm, Pitch 5mm
J2	1		HTSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	Header, 100mil, 3x1, TH
L1	1	10uH	XAL1510-103MEB	Coilcraft	Inductor, Shielded, Composite, 10 uH, 22 A, 0.0068 ohm, SMD	15.4 x 11 x 16.4mm
R1	1	1.07Meg	CRCW06031M07FKEA	Vishay-Dale	RES, 1.07 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R2, R6, R8	3	102k	CRCW0603102KFKEA	Vishay-Dale	RES, 102 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R3	1	13.0k	RC0603FR-0713KL	Yageo	RES, 13.0 k, 1%, 0.1 W, 0603	0603
R4, R21	2	DNP	RC0603FR-100RL	Yageo	DNP	0603
R5	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R7, R9, R10, R11, R16, R17, R19	7	0	RC0603FR-100RL	Yageo	0 Ohms Jumper Chip Resistor 0603 (1608 Metric) Moisture Resistant Thick Film	0603
R12, R26	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R13	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603
R14	1	DNP	DNP	Susumu	DNP	0612
R15	1	2m	KRL3216E-C-R002-G-T5	Susumu	12 mOhms ±1% 1.5W Chip Resistor Wide 1206 (3216 Metric), 0612 Automotive AEC-Q200, Current Sense Metal Foil	0612
R18	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
R20	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R22	1	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
R23	1	8.66k	RC0603FR-078K66L	Yageo	RES, 8.66 k, 1%, 0.1 W, 0603	0603
R24	1	6.98k	CRCW06036K98FKEA	Vishay-Dale	RES, 6.98 k, 1%, 0.1 W, 0603	0603
R25	1	23.7k	CRCW060323K7FKEA	Vishay-Dale	RES, 23.7 k, 1%, 0.1 W, 0603	0603
R27	1	54.9k	CRCW060354K9FKEA	Vishay-Dale	RES, 54.9 k, 1%, 0.1 W, 0603	0603
R28	1	4.32k	CRCW06034K32FKEA	Vishay-Dale	RES, 4.32 k, 1%, 0.1 W, 0603	0603

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TP1, TP2, TP3, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16	15		5000	Keystone Electronics	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP4	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		TLV3401IDBVR	Texas Instruments	Single Nanopower Open Drain Output Comparator, DBV0005A (SOT-23-5)	DBV0005A
U2	1		LMG708B0VBTR	Texas Instruments	80VIN, 20AOUT, High Power Density GaN Synchronous Buck Converter	VQFN-FCRLF21

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