

## PMP30595 REV A2 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
AGnd, GndIn, GndOut, PGnd	4		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
C1, C206	2	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V,+/- 10%, X7R, 1210	1210
C2	1	68uF	EEHZC1V680XP	Panasonic	CAP, Polymer Hybrid, 68 uF, 35 V,+/- 20%, 35 ohm	SMD 6.3x7.7
C5	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C6	1	0.015uF	GRM188R71E153KA01D	MuRata	CAP, CERM, 0.015 uF, 25 V,+/- 10%, X7R, 0603	0603
C7	1	180pF	GRM1885C1H181JA01D	MuRata	CAP, CERM, 180 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C8, C112, C113	3	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 uF, 50 V,+/- 10%, X7R, 0603	0603
C9	1	100uF	EEHZC1E101XP	Panasonic	CAP, Polymer Hybrid, 100 uF, 25 V,+/- 20%, 30 ohm	SMD 6.3x7.7
C11, C12	2	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V,+/- 10%, X7R, 1210	1210
C13, C111	2	470pF	GRM188R71H471KA01D	MuRata	CAP, CERM, 470 pF, 50 V,+/- 10%, X7R, 0603	0603
C14, C114, C201, C203	4	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
C15	1	5600pF	GRM188R71E562KA01D	MuRata	CAP, CERM, 5600 pF, 25 V,+/- 10%, X7R, 0603	0603
C202	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V,+/- 10%, X7R, 0603	0603
C204	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V,+/- 10%, X7R, 0603	0603
C205	1	4.7uF	GRM21BR71E475KA73L	MuRata	CAP, CERM, 4.7 uF, 25 V,+/- 10%, X7R, 0805	0805
D1	1	30V	B330A-13-F	Diodes Inc.	Diode, Schottky, 30 V, 3 A, SMA	SMA
D201	1	100V	1N4148WFL-G3-08	Vishay-Semiconductor	Diode, Switching, 100 V, 0.15 A, SOD-123FL	SOD-123FL
Gate, RC, Swnode	3		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
J1, J6	2		691 101 710 002	Würth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	THT Terminal Block, 5 mm, 2x1
J101	1		RAPC722X	Switchcraft	Power Jack, mini, 2.1mm OD, R/A, TH	Jack, 14.5x11x9mm
J201	1		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
J202	1		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
J203, J204	2		TSW-105-07-G-D	Samtec	Header, 100mil, 5x2, Gold, TH	5x2 Header
L2	1	47uH	MSS1048-473MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 47 uH, 2.2 A, 0.13 ohm	SMD MSS1048
L111	1	1uH	XFL4020-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 uH, 5.4 A, 0.01 ohm	SMD 4x2x4mm
NWA	1		5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
Q2	1	-30V	DMP3099L-7	Diodes Inc.	MOSFET, P-CH, -30 V, -3.8 A, AEC-Q101, SOT-23	SOT-23
Q201	1	40V	BSC093N04LS G	Infineon Technologies	MOSFET, N-CH, 40 V, 49 A, PG-TDSON-8	PG-TDSON-8
R1	1	68.1k	CRCW060368K1FKEA	Vishay-Dale	RES, 68.1 k, 1%, 0.1 W, 0603	0603
R2	1	0.05	CRM0805-FW-R050ELF	Bourns	RES, 0.05, 1%, 0.25 W, 0805	0805
R3	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R4	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, 0603	0603
R5	1	4.02k	CRCW06034K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, 0603	0603
R6	1	150	CRCW0603150RFKEA	Vishay-Dale	RES, 150, 1%, 0.1 W, 0603	0603
R7	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R8	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R9	1	1.62k	CRCW06031K62FKEA	Vishay-Dale	RES, 1.62 k, 1%, 0.1 W, 0603	0603
R111	1	7.5	CRCW08057R50JNEA	Vishay-Dale	RES, 7.5, 5%, 0.125 W, 0805	0805
R202, R214	2	71.5k	CRCW060371K5FKEA	Vishay-Dale	RES, 71.5 k, 1%, 0.1 W, 0603	0603
R203	1	0.1	CSR1206FKR100	Stackpole Electronics Inc	RES, 0.1, 1%, 0.5 W, 1206	1206
R204, R205, R206, R207, R208, R209, R210, R211, R212, R213	10	49.9	CRCW201049R9FKEF	Vishay-Dale	RES, 49.9, 1%, 0.75 W, AEC-Q200 Grade 0, 2010 (resistors used for onboard load)	2010
R215	1	1.0	CRCW06031R00JNEA	Vishay-Dale	RES, 1.0, 5%, 0.1 W, 0603	0603
U1	1		TPS40200D	Texas Instruments	Wide Input Non-Synchronous Buck DC/DC Controller	D0008A (SOIC-8)
U201	1		LMC555CM/NOPB	Texas Instruments	CMOS Timer, 8-pin Narrow SOIC, Pb-Free	M08A
U202	1		UCC27517ADBVR	Texas Instruments	4A/4A Single Channel High-speed Low-side Gate Driver	DBV0005A (SOT-23-5)
U203	1		TL750L08CD	Texas Instruments	Single Output LDO, 150 mA, Fixed 8 V Output, 9 to 26 V Input	D0008A (8-pin SOIC)

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Vcs+, Vdd, Vin, Vout	4		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
Vcs-	1		5126	Keystone	Test Point, Multipurpose, Green, TH	Green Multipurpose Testpoint

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