

PMP30168 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C3, C4, C202	5	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C5, C32, C35, C36, C201	5	56uF	EEHZC1J560P	Panasonic	CAP, Polymer Hybrid, 56 uF, 63 V, +/- 20%, 30 ohm	10x10 SMD
C6, C7	2	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
C8, C10	2	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C9, C203, C204	3	0.47uF	GRM21BR72A474KA73L	MuRata	CAP, CERM, 0.47 uF, 100 V, +/- 10%, X7R, 0805	0805
C11, C18, C19	3	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47 uF, 25 V, +/- 10%, X7R, 0603	0603
C12, C13	2	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
C16	1	10pF	GRM1885C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C17	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	0603
C20, C21, C37, C38	4	1000pF	GRM188R72A102KA01D	MuRata	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	0603
C22, C26	2	560uF	20SVPF560M	Panasonic	CAP, Aluminum Polymer, 560 uF, 20 V, +/- 20%, 0.012 ohm	F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm
C23, C24, C27, C28	4	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
C25, C29	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C30, C31	2	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C45	1	0.047uF	GRM188R70J473KA01D		CAP, CERM, 0.047 uF, 6.3 V, +/- 10%, X7R, 0603	0603
C301	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
C302	1	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603
C303	1	2.2uF	GRM188Z71C225KE43	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603	0603
D1, D2	2	60V	PMEG6010CEH,115	NXP Semiconductor	Diode, Schottky, 60 V, 1 A, SOD-123F	SOD-123F
D3, D4, D5, D6	4	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
D101, D102	2	60V	B360B-13-F	Diodes Inc.	Diode, Schottky, 60 V, 3 A, SMB	SMB
J201	1		OSTT7022150	On-Shore Technology	Terminal Block, 30A, 9.52mm (.375) Pitch, 2-Pos	19.62x21.5x12.5mm THT
L1, L2	2	10uH	IHLP8787MZER100M5A	Vishay-Dale	Inductor, Shielded, 10 uH, 28 A, 0.00404 ohm,	22x22.48mm SMD
L201	1	1uH	XAL8080-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 uH, 31.38 A, 0.0021 ohm	8.1 x 8 x 8.6mm SMD
Q1, Q3	2	60V	BSC066N06NS	Infineon Technologies	MOSFET, N-CH, 60 V, 50 A, PG-TDSON-8	PG-TDSON-8
Q2, Q4	2	60V	BSC039N06NS	Infineon Technologies	MOSFET, N-CH, 60 V, 19 A, PG-TDSON-8	PG-TDSON-8
R1	1	3.9	CRCW08053R90JNEA	Vishay-Dale	RES, 3.9, 5%, 0.125 W, 0805	0805
R2	1	249k	CRCW0603249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.1 W, 0603	0603
R3	1	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R4	1	16.5k	CRCW060316K5FKEA	Vishay-Dale	RES, 16.5 k, 1%, 0.1 W, 0603	0603
R7	1	78.7k	CRCW060378K7FKEA	Vishay-Dale	RES, 78.7 k, 1%, 0.1 W, 0603	0603
R8	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R10	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R11	1	1.62k	CRCW06031K62FKEA	Vishay-Dale	RES, 1.62 k, 1%, 0.1 W, 0603	0603
R12	1	4.64k	CRCW06034K64FKEA	Vishay-Dale	RES, 4.64 k, 1%, 0.1 W, 0603	0603
R13	1	10k	3224W-2-103E	Bourns	TRIMMER, 10K, 0.25W, SMD	3.5x5.3x4.8mm
R14, R15	2	71.5k	CRCW060371K5FKEA	Vishay-Dale	RES, 71.5 k, 1%, 0.1 W, 0603	0603
R16	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R17	1	0	MCR03EZPJ000	Rohm	RES, 0, 5%, 0.1 W, 0603	0603
R18, R20	2	0.006	WSL20106L000FEA18	Vishay-Dale	RES, 0.006, 1%, 1 W, 2010	2010
R23, R24, R31, R32	4	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, 0603	0603
R27, R28, R29, R30, R101, R102	6	3.32	CRCW06033R32FKEA	Vishay-Dale	RES, 3.32, 1%, 0.1 W, 0603	0603
R34, R38	2	3.3	CRCW12063R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.25 W, 1206	1206
R35	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R36	1	30.9k	CRCW060330K9FKEA	Vishay-Dale	RES, 30.9 k, 1%, 0.1 W, 0603	0603

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R37	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R301	1	0.001	WSL20101L000FEA18	Vishay-Dale	RES, 0.001, 1%, 1 W, 2010	2010
R302	1	DNP	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
T301, T302	2		CB35-36-CY	Panduit	Terminal 50A Lug	CB35-36-CY
TP1, TP6, TP7, TP302	4		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP2	1		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
TP3, TP9, TP10, TP301	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP4, TP5, TP8	3		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
U1	1		LM5119PSQX/NOPB	Texas Instruments	Wide Input Range, Dual Synchronous Buck Controller	RTV0032A
U301	1		INA198AIDBVR	Texas Instruments	CURRENT SHUNT MONITOR -16V to +80V Common-Mode Range	DBV0005A, SOT 5
U302	1		LP2980AIM5-5.0/NOPB	Texas Instruments	Micropower 50 mA Ultra Low-Dropout Regulator, 5-pin SOT-23	MF05A

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