



PMP30308 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	1000pF	GR442QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V,+/- 10%, X7R, 1808	1808
C2	1	39uF	35SVPF39M	Panasonic	CAP, Aluminum Polymer, 39 µF, 35 V,+/- 20%, 0.03 ohm, 8.0x7.0mm SMD	8.0x7.0mm
C3	1	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V,+/- 10%, X7R, 1210	1210
C4, C8	2	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C5	1	100uF	25SVPF100M	Panasonic	CAP, Aluminum Polymer, 100 µF, 25 V,+/- 20%, 0.024 ohm, 8.0x7.0mm SMD	8.0x7.0mm
C6, C7	2	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 µF, 25 V,+/- 10%, X7R, 1210	1210
C9	1	0.01uF	GRM21BR72A103MA01L	MuRata	CAP, CERM, 0.01 µF, 100 V, +/- 20%, X7R, 0805	0805
C10	1	4.7uF	GRM21BR71E475KA73L	MuRata	CAP, CERM, 4.7 µF, 25 V,+/- 10%, X7R, 0805	0805
C11	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V,+/- 10%, X7R, 0603	0603
C12	1	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C13	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V,+/- 10%, X7R, 0603	0603
C14	1	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C15	1	68pF	GRM1885C1H680JA01D	MuRata	CAP, CERM, 68 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C16	1	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V,+/- 10%, X7R, 0603	0603
C17	1	0.47uF	GRM188R71C474KA88D	MuRata	CAP, CERM, 0.47 µF, 16 V,+/- 10%, X7R, 0603	0603
D1	1	80V	B180-13-F	Diodes Inc.	Diode, Schottky, 80 V, 1 A, SMA	SMA
D2	1	27V	MMSZ5254B-7-F	Diodes Inc.	Diode, Zener, 27 V, 500 mW, SOD-123	SOD-123
D3, D4	2	100V	BAT46WH,115	Nexperia	Diode, Schottky, 100 V, 0.25 A, SOD-123F	SOD-123F
D5	1	9.1V	MMSZ5239BS-7-F	Diodes Inc.	Diode, Zener, 9.1 V, 200 mW, SOD-323	SOD-323
D6	1	5.1V	MMSZ5231BS-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 200 mW, SOD-323	SOD-323
D100	1	30V	BAT54LP-7	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, 1.00x0.50x0.60mm	1.00x0.50x0.60mm
J1, J2	2		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
Q1	1	60V	NVMFS5C682NLT1G	ON Semiconductor	MOSFET, N-CH, 60 V, 25 A, AEC-Q101, SO-8FL	SO-8FL
Q2	1	0.3V	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40V, 0.15A, SOT-23	SOT-23
R1	1	100k	CRCW1206100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.25 W, 1206	1206
R2	1	4.7	CRCW08054R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.125 W, 0805	0805
R3	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R4	1	499k	CRCW0603499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.1 W, 0603	0603
R5, R6	2	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R7	1	33.2	CRCW060333R2FKEA	Vishay-Dale	RES, 33.2, 1%, 0.1 W, 0603	0603
R8	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R9	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603
R10	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603	0603
R11	1	0.05	CRM0805-FW-R050ELF	Bourns	RES, 0.05, 1%, 0.25 W, 0805	0805
R12	1	33.2k	CRCW060333K2FKEA	Vishay-Dale	RES, 33.2 k, 1%, 0.1 W, 0603	0603
R13	1	3.16k	CRCW08053K16FKEA	Vishay-Dale	RES, 3.16 k, 1%, 0.125 W, 0805	0805
R14	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R15	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, 0603	0603
R16, R18	2	OPEN	Used in BOM report	Used in BOM report	OPEN	Used in PnP output and some BOM reports
R17	1	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
T1	1	10uH	750317059	Würth Elektronik	Transformer, 10 uH, SMT	13.46x17.75mm
TP1	1		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP2, TP3, TP7	3	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP4, TP5, TP8	3	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP6	1		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1		TPS40210DGQ	Texas Instruments	4.5~52V Wide Input Range Boost/SEPIC/Flyback DC-DC Controller, DGQ0010D (HVSSOP-10)	DGQ0010D

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