

PMP20128 REV B Bill of Materials



Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	47uF	EEV-FK2A470Q	Panasonic	CAP, AL, 47uF, 100V, +/-20%, 0.32 ohm, SMD	SMT Radial H13
C2, C4, C6, C7	4	4.7uF	GRM32ER71K475ME14	Murata	CAP, CERM, 4.7uF, 80V, +/-20%, X7R, 1210	1210
C3, C5	2	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C8	1	1uF	C3216X7R2A105M160AA	TDK	CAP, CERM, 1uF, 100V, +/-20%, X7R, 1206	1206
C9, C10, C11, C12	4	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 µF, 10 V, +/- 10%, X7R, 1210	1210
C13	1	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C14	1	0.47uF	C1608X7R1H474K080AC	TDK	CAP, CERM, 0.47 µF, 50 V, +/- 10%, X7R, 0603	0603
C15	1	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C16	1	0.015uF	GRM188R71H153KA01D	MuRata	CAP, CERM, 0.015 µF, 50 V, +/- 10%, X7R, 0603	0603
C17	1	220pF	C1608C0G1H221J	TDK	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
D1, D2, D3, D4, D5, D7	6	100V	PMEG10020ELRX	NXP	Diode, Schottky, 100 V, 2A, AEC-Q101, SOD-123W	SOD-123W
D6	1	100V	V12P10-M3/86A	Vishay	Diode, Schottky, 100 V, 12 A, AEC-Q101, TO-277A	TO-277A
D8	1	6.2V	MMSZ5234BS-7-F	Diodes Inc.	Diode, Zener, 6.2 V, 200 mW, SOD-323	SOD-323
J1, J2	2		ED555/2DS	On-Shore Tech	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
L1	1	22uH	JA4590-AL	Coilcraft	Coupled inductor, 22 µH, 7.8 A, 0.028 ohm, SMD	15 x 13.9 x 15mm
Q1	1	100V	CSD19533Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 13 A, SON 5x6mm	SON 5x6mm
Q100	1	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
R1	1	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3 ohm, 5%, 0.1W, 0603	0603
R2	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R3	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9 ohm, 1%, 0.1W, 0603	0603
R4	1	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.1 W, 0603	0603
R5	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R6	1				RES, open, 0603	0603
R7	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603	0603
R8, R11	2	23.7k	CRCW060323K7FKEA	Vishay-Dale	RES, 23.7 k, 1%, 0.1 W, 0603	0603
R9	1	56.2k	CRCW060356K2FKEA	Vishay-Dale	RES, 56.2 k, 1%, 0.1 W, 0603	0603
R10	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R12	1	0.025	CSRN2512FK25L0	Stackpole	RES, 0.025, 1%, 2 W, 2512	2512
R100	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
TP1, TP3, TP4, TP6, TP100	5		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP5, TP7	3		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		LM5022QDGSRQ1	Texas Instruments	60V Low Side Controller for Boost and SEPIC, DGS0010A	DGS0010A

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