

PMP20551 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP20551	Any	Printed Circuit Board	
C17	1	220pF	C0603C221J5GACTU	Kemet	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C100	1	470pF	GCM1885C1H471JA16D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	603
C16	1	2200pF	GRM1885C1H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C15	1	0.047uF	GRM188R71C473KA01D	MuRata	CAP, CERM, 0.047 uF, 16 V, +/- 10%, X7R, 0603	603
C19	1	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, 0603	603
C18	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	603
C11	1	470pF	GRM21A5C2E471JW01D	MuRata	CAP, CERM, 470 pF, 250 V, +/- 5%, C0G/NP0, 0805	805
C1	1	1000pF	C0805C102K1RACTU	Kemet	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0805	805
C12	1	0.1uF	GRM21BR72A104KAC4L	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	805
C14	1	0.22uF	GRM21AR72A224KAC5L	MuRata	CAP, CERM, 0.22 uF, 100 V, +/- 10%, X7R, 0805	805
C13	1	2.2uF	GRM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, 0805	805
C20	1	1000pF	GRM31BR73A102KW01L	MuRata	CAP, CERM, 1000 pF, 1000 V, +/- 10%, X7R, 1206	1206
C8, C9, C10	3	4.7uF	GRM32ER71K475KE14L	MuRata	CAP, CERM, 4.7 uF, 80 V, +/- 10%, X7R, 1210	1210
C4, C5, C6, C7	4	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
C2	1	470uF	APSG160ELL471MH08S	Chemi-Con	CAP, Aluminum Polymer, 470 uF, 16 V, +/- 20%, 0.016 ohm, TH	D8xL8mm
D1	1	60V	MBRB30H60CTT4G	ON Semiconductor	Diode, Schottky, 60 V, 15 A, AEC-Q101, DDPAK	DDPAK
D2	1	1.25V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100V, 0.15A, SOD-123	SOD-123
D3	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D4	1	100V	MBRS1100T3G	ON Semiconductor	Diode, Schottky, 100 V, 1 A, SMB	SMB
D6	1	30V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
Q1	1	150V	BSC360N15NS3 G	Infineon Technologies	MOSFET, N-CH, 150 V, 33 A, PG-TDSON-8	PG-TDSON-8
R7	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	603
R4	1	47	CRCW060347R0JNEA	Vishay-Dale	RES, 47, 5%, 0.1 W, 0603	603
R18	1	1.24k	CRCW06031K24FKEA	Vishay-Dale	RES, 1.24 k, 1%, 0.1 W, 0603	603
R13	1	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R16	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	603
R9	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	603
R6, R15, R17	3	10.7k	CRCW060310K7FKEA	Vishay-Dale	RES, 10.7 k, 1%, 0.1 W, 0603	603
R12	1	47.0k	CRCW060347K0FKEA	Vishay-Dale	RES, 47.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R5	1	69.8k	CRCW060369K8FKEA	Vishay-Dale	RES, 69.8 k, 1%, 0.1 W, 0603	603
R8	1	174k	CRCW0603174KFKEA	Vishay-Dale	RES, 174 k, 1%, 0.1 W, 0603	603
R10	1	523k	CRCW0603523KFKEA	Vishay-Dale	RES, 523 k, 1%, 0.1 W, 0603	603
R11	1	1.21Meg	CRCW06031M21FKEA	Vishay-Dale	RES, 1.21 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R3	1	3.3	CRCW08053R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.125 W, 0805	805
R100	1	4.7	ERJ-6GEYJ4R7V	Panasonic	RES, 4.7, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R2, R19, R20	3	39k	CRCW120639K0JNEA	Vishay-Dale	RES, 39 k, 5%, 0.25 W, 1206	1206
R1, R21	2	20	ERJ-14YJ200U	Panasonic	RES, 20, 5%, 0.5 W, 1210	1210
R22	1	33	RC1210JR-0733RL	Yageo	RES, 33, 5%, 0.5 W, 1210	1210
R14	1	0.05	CSRN2512FK50L0	Stackpole Electronics Inc	RES, 0.05, 1%, 2 W, 2512	2512
T1	1	42uH	750316708	Würth Elektronik	Transformer, 42 uH, TH	26.67x26.04mm
TP1, TP2, TP7, TP11	4	Double	1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
TP3, TP5	2	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
TP4, TP8, TP9	3	White	5002	Keystone	Test Point, TH, Miniature, White	Keystone5002
TP6, TP10	2	Black	5001	Keystone	Test Point, TH, Miniature, Black	Keystone5001
U1	1		LM5022MME/NOPB	Texas Instruments	60V Low Side Controller for Boost and SEPIC, 10-pin MSOP, Pb-Free	MUB10A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U2, U4	2		LMV431BIMFX/NOPB	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulators, 3-pin SOT-23, Pb-Free	MF03A
U3	1		PS2501L-1-F3-L-A	California Eastern Laboratorie	Optocoupler, 5 kV, 200-400% CTR, SMT	PS2501L
C3	0	470uF	APSG160ELL471MH08S	Chemi-Con	CAP, Aluminum Polymer, 470 μ F, 16 V, +/- 20%, 0.016 ohm, TH	D8xL8mm
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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