

PMP20659 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC8?	1		PMP7819 REVC	Any	PMP7819 REVC	N/A
C1, C2, C3, C20, C21, C22	6	10uF	UMK325AB7106KMHT	Taiyo Yuden	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C4, C18	2	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603
C5	1	0.1uF	C2012X7R2A104K	TDK	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	0805
C7, C19	2	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603
C8, C11, C17	3	100pF	06035A101JAT2A	AVX	CAP, CERM, 100pF, 50V, +/-5%, COG/NP0, 0603	0603
C9, C10, C27, C28	4	220uF	T520D227M006ATE009	Kemet	CAP, TA, 220 µF, 6.3 V, +/- 20%, 0.009 ohm, SMD	7343-31
C12, C29	2	2700pF	06031C272JAT2A	AVX	CAP, CERM, 2700pF, 100V, +/-5%, X7R, 0603	0603
C13	1	0.01uF	GCM188R71H103KA37D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C14, C24	2	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603	0603
C15, C23	2	1500pF	GRM1885C1H152JA01D	MuRata	CAP, CERM, 1500 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
C16	1	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C25, C26	2	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
D1, D2, D3, D4	4	0.6V	BAT46W-7-F	Diodes Inc.	Diode, Schottky, 100V, 0.15A, SOD-123	SOD-123
D5, D6, D7, D8	4	0.7V	BAT54WS-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
GND, GND V	2	Black	5001	Keystone	Test Point, TH, Miniature, Black	Keystone5001
J1, J2	2		3102-2-00-21-00-00-08-0	Mill -Max	PC PIN .040 DIA 3102-2 SERIES	Through Hole 44 mil drfill
J3, J4	2		3144-2-00-21-00-00-08-0	Mill -Max	CIRCUIT PIN PRNTD .188" .084"	Through Hole 67 mil drfill
L1, L2	2	4.7uH	XAL1510-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 µH, 29 A, 0.00335 ohm, SMD	15.4 x 11 x 16.4mm
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	8	40V	IPZ40N04S58R4ATMA1	Infineon Technologies	MOSFET, N-CH, 40 V, 40 A, AEC-Q101, PG-TSDSON-8	PG-TSDSON-8
Q9, Q10, Q11, Q12	4	0.075V	2DB1694-7	Diodes Inc.	TRANS BIPO PNP 30V 1A SOT-323	SOT-323
R3	1	1.00	CRCW08051R00FNEA	Vishay-Dale	RES, 1.00 ohm, 1%, 0.125W, 0805	0805
R4	1	23.7k	CRCW060323K7FKEA	Vishay-Dale	RES, 23.7 k, 1%, 0.1 W, 0603	0603
R5	1	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49k ohm, 1%, 0.1W, 0603	0603
R6	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R7, R23	2	68.1k	CRCW060368K1FKEA	Vishay-Dale	RES, 68.1 k, 1%, 0.1 W, 0603	0603
R8, R16	2	1.00	CRCW12061R00FNEA	Vishay-Dale	RES, 1.00 ohm, 1%, 0.25W, 1206	1206
R9	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R10, R10x, R19, R19x	4	0.007	WSL20107L000FEA18	Vishay-Dale	RES, 0.007, 1%, 1 W, 2010	2010
R11	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R13	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R18	1	5.23k	CRCW06035K23FKEA	Vishay-Dale	RES, 5.23 k, 1%, 0.1 W, 0603	0603
R22	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R24	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9 ohm, 1%, 0.1W, 0603	0603
R25, R26, R27, R28	4	100	CRCW0603100RJNEA	Vishay-Dale	RES, 100, 5%, 0.1 W, 0603	0603
U1	1		LM25119QPSQX/NOPB	Texas Instruments	Wide Input Range, Dual Synchronous Buck Controller, RTV0032A (WQFN-32)	RTV0032A
VIN, VOUT	2	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
C6	0	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
EN2, Sync, TP IN, TP OUT	0	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R1	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R2	0	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603

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