

PMP7979 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC B?	1		PMP7850 REVB	Any	PMP7850 REVB	N/A
C1, C2, C19, C21	4	470pF	GRM2165C2A471JA01D	MuRata	CAP, CERM, 470pF, 100V, +/-5%, COG/NPO, 0805	0805
C3, C5, C22	3	33uF	MAL215097904E3	Vishay-Bccomponents	CAP, AL, 33 μ F, 100 V, +/- 20%, AEC-Q200 Grade 2, SMD	D10xL10mm
C4x1, C4x2, C4x3, C4x4, C6, C7, C23x1, C23x2, C23x3, C23x4, C24, C25	12	10uF	22201C106MAT2A	AVX	CAP, CERM, 10 μ F, 100 V, +/- 20%, X7R, 2220	2220
C11, C13, C29, C31	4	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603	0603
C12, C16, C30, C33	4	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, COG/NPO, 0603	0603
C14, C32	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
C15	1	0.22uF	GRM188R71C224KA01D	MuRata	CAP, CERM, 0.22 μ F, 16 V, +/- 10%, X7R, 0603	0603
C17	1	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0603	0603
C18	1	2200pF	GRM188R71E222KA01D	MuRata	CAP, CERM, 2200 pF, 25 V, +/- 10%, X7R, 0603	0603
C20	1	0.022uF	C0603C223K3RACTU	Kemet	CAP, CERM, 0.022uF, 25V, +/-10%, X7R, 0603	0603
C34	1	0.01uF	GRM188R71C103KA01D	MuRata	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0603	0603
D1, D3	2	100V	MMSD4148T1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
Dx1, Dx2	2	1.8V	MMSZ4678T1G	ON Semiconductor	Diode, Zener, 1.8 V, 500 mW, SOD-123	SOD-123
IN1, OUT1, Sync In 1, Sync In 2, TP5, TP6	6	White	5002	Keystone	Test Point, TH, Miniature, White	Keystone5002
J1, J2, J3, J4	4		575-4	Keystone	Standard Banana Jack, Uninsulated, 5.5mm	Keystone_575-4
L1, L2	2	22uH	SER2918H-223KL	Coilcraft	Inductor, Shielded E Core, Ferrite, 22 μ H, 15 A, 0.0026 ohm, SMD	29.7x17.78x27.94mm
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	8	80V	BSC123N08NS3 G	Infineon Technologies	MOSFET, N-CH, 80V, 55A, PG-TDSON-8	PG-TDSON-8
R1, R2, R19, R23	4	7.5	ERJ-12ZYJ7R5U	Panasonic	RESISTOR 7.5 OHM 3/4W 5% 2010	2010
R3, R24	2	0.004	ERJ-M1WSF4M0U	Panasonic	RES, 0.004, 1%, 1 W, 2512	2512
R4, R13, R15, R30, R32	5	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R5, R6, R25, R26	4	301	CRCW0603301RFKEA	Vishay-Dale	RES, 301, 1%, 0.1 W, 0603	0603
R7, R8, R14, R27, R28, R31	6	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R10	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
R11, R29	2	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3 ohm, 5%, 0.1W, 0603	0603
R12	1	6.19k	RC0603FR-076K19L	Yageo America	RES, 6.19k ohm, 1%, 0.1W, 0603	0603
R16, R33	2	88.7k	CRCW060388K7FKEA	Vishay-Dale	RES, 88.7 k, 1%, 0.1 W, 0603	0603
R17, R34	2	78.7k	CRCW060378K7FKEA	Vishay-Dale	RES, 78.7 k, 1%, 0.1 W, 0603	0603
R18	1	12.4k	CRCW060312K4FKEA	Vishay-Dale	RES, 12.4 k, 1%, 0.1 W, 0603	0603
R20	1	2.94k	CRCW06032K94FKEA	Vishay-Dale	RES, 2.94 k, 1%, 0.1 W, 0603	0603
R21	1	130k	CRCW0603130KFKEA	Vishay-Dale	RES, 130 k, 1%, 0.1 W, 0603	0603
R22	1	3.9	CRCW06033R90JNEA	Vishay-Dale	RES, 3.9 ohm, 5%, 0.1W, 0603	0603
Rx1, Rx3	2	30.9k	CRCW060330K9FKEA	Vishay-Dale	RES, 30.9 k, 1%, 0.1 W, 0603	0603
Rx2, Rx4	2	95.3k	CRCW060395K3FKEA	Vishay-Dale	RES, 95.3 k, 1%, 0.1 W, 0603	0603
U1, U2	2		LM5122MHX/NOPB	Texas Instruments	Wide Input Synchronous Boost Controller with Multiple Phase Capability, PWP0020A	PWP0020A
Vin1, Vout1	2	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
Vin Gnd1, Vout Gnd1	2	Black	5001	Keystone	Test Point, TH, Miniature, Black	Keystone5001
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R9	0	158k	CRCW0603158KFKEA	Vishay-Dale	RES, 158k ohm, 1%, 0.1W, 0603	0603

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