

PMP10538 REV 1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCBoard?	1		PMP7950 REV1B	Any	PMP7950 REV1B	N/A
C1	1	470pF	GRM2165C2A471JA01D	MuRata	CAP, CERM, 470pF, 100V, +/-5%, C0G/NP0, 0805	0805
C2, C13, C14, Cx6, Cx7	5	22uF	PCR1J220MCL1GS	Nichicon	CAP, Al Polymer Electrolytic, 22uF, 63V, +/-20%, 48mOhm ESR, SMT	8x7mm
C3, C4, C5, C6	4	3.3uF	GRM32DR71H335KA88L	MuRata	CAP, CERM, 3.3uF, 50V, +/-10%, X7R, 1210	1210
C7, Cx3, Cx4	3	100uF	UCL1V101MCL6GS	Nichicon	CAP, Aluminum Electrolytic, 100uF, 35V, +/-20%, 0.16 Ohm ESR, SMT	6.3x7.7mm
C8, C9, C10, C11, C12	5	1uF	GRM32CR72A105KA35L	MuRata	CAP, CERM, 1uF, 100V, +/-10%, X7R, 1210	1210
C15	1	0.1uF	08053C104KAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0805	0805
C16, C20	2	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C17	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7uF, 16V, +/-10%, X7R, 0805	0805
C19, C21	2	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603	0603
C22	1	1uF	GRM219R71E105KA88D	MuRata	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0805	0805
C23	1	1000pF	C0603C102J5GAC	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C24	1	0.022uF	C0603X223K5RACTU	Kemet	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	0603
Cx2	1	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47 uF, 25 V, +/- 10%, X7R, 0603	0603
D1	1	0.77V	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100V, 1A, PowerDI123	PowerDI123
Dx2	1	30V	BAT54WS-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1	1	2x1	1715721	Phoenix Contact	Conn Term Block, 2POS, 5.08mm, TH	2POS Terminal Block
J2	1	2x1	1751248	Phoenix Contact	Conn Term Block, 2POS, 3.5mm, TH	11x8.5x7.3mm
L1	1	22uH	IHLP6767GZER220M5A	Vishay Dale	Inductor, 22uH, 11A, 22.27 mOhm Max., +/-20%, SMT	
Q1, Q3	2	100V	IPB123N10N3 G	Infineon	MOSFET, N-CH, 100V, 58A, TO263-3	TO263-3 (D2PAK)
Q7	1	0.25V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23
R1	1	8.2	CRCW20108R20JNEF	Vishay Dale	RES 8.2 OHM 3/4W 5% 2010 SMD	2010 (5025 Metric)
R2	1	0.005	RL7520WT-R005-F	Susumu	RES, 0.005 ohm, 1%, 2W, 0830 Wide	0830
R3, R4	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R5, R8, R9, R10, R14	5	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R11	1	6.98k	CRCW06036K98FKEA	Vishay-Dale	RES, 6.98k ohm, 1%, 0.1W, 0603	0603
R12	1	2.2	CRCW08052R20JNEA	Vishay-Dale	RES, 2.2 ohm, 5%, 0.125W, 0805	0805
R13	1	73.2k	CRCW060373K2FKEA	Vishay-Dale	RES, 73.2 k, 1%, 0.1 W, 0603	0603
R15	1	8.06k	CRCW06038K06FKEA	Vishay-Dale	RES, 8.06k ohm, 1%, 0.1W, 0603	0603
R16	1	36.5k	CRCW060336K5FKEA	Vishay-Dale	RES, 36.5k ohm, 1%, 0.1W, 0603	0603
R18	1	6.81k	CRCW06036K81FKEA	Vishay-Dale	RES, 6.81 k, 1%, 0.1 W, 0603	0603
R19	1	1.18k	CRCW06031K18FKEA	Vishay-Dale	RES, 1.18 k, 1%, 0.1 W, 0603	0603
R20	1	51.1k	CRCW080551K1FKEA	Vishay-Dale	RES, 51.1k ohm, 1%, 0.125W, 0805	0805
R21	1	825	CRCW0805825RFKEA	Vishay-Dale	RES, 825 ohm, 1%, 0.125W, 0805	0805
Rx4, Rx8	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
Rx5	1	3.74k	CRCW06033K74FKEA	Vishay-Dale	RES, 3.74 k, 1%, 0.1 W, 0603	0603
Rx6	1	40.2	CRCW060340R2FKEA	Vishay-Dale	RES, 40.2, 1%, 0.1 W, 0603	0603
Rx7	1	19.6k	CRCW060319K6FKEA	Vishay-Dale	RES, 19.6 k, 1%, 0.1 W, 0603	0603
Rx9	1	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, 0603	0603
Rx10	1	4.87	CRCW06034R87FKEA	Vishay-Dale	RES, 4.87 ohm, 1%, 0.1W, 0603	0603
TP1, TP3	2	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP2, TP7, TP8	3	White	5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP4, TP5	2	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP6	1	Yellow	5009	Keystone	Test Point, Compact, Yellow, TH	Yellow Compact Testpoint
TPx1, TPx2	2	SMT	5016	Keystone	Test Point, Compact, SMT	Testpoint_Keystone_Compact
U1	1		LM5122MHX/NOPB	Texas Instruments	Wide Input Synchronous Boost Controller with Multiple Phase Capability, PWP0020A	PWP0020A
Ux2	1		LM321MF	Texas Instruments	Low Power Single Op Amp, DBV0005A	DBV0005A
C18	0	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C25, C26	0	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
C27	0	1uF	GRM32CR72A105KA35L	MuRata	CAP, CERM, 1uF, 100V, +/-10%, X7R, 1210	1210
D2	0	0.57V	PMEG6010CEH,115	NXP Semiconductor	Diode, Schottky, 60V, 1A, SOD-123F	SOD-123F
Dx1	0	30V	BAT54WS-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
Q2	0	100V	IPB123N10N3 G	Infineon	MOSFET, N-CH, 100V, 58A, TO263-3	TO263-3 (D2PAK)
Q4, Q6, Q8	0	0.2V	MMBT3904	Fairchild Semiconductor	Transistor, NPN, 40V, 0.2A, SOT-23	SOT-23
Q5, Q9	0	0.25V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23
R6, R17	0	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R7	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603

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