

PMP11422 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB	1		PMP11422	Any	Printed Circuit Board	
C1	1	330pF	GRM188R72A331KA01D	MuRata	CAP, CERM, 330pF, 100V, +/-10%, X7R, 0603	0603
C2	1	100uF	EEE-FK1C101P	Panasonic	CAP, AL, 100 μF, 16 V, +/- 20%, 0.36 ohm, SMD	SMT Radial D
C3, C4	2	150uF	EMZJ160ADA151MF80G	Chemi-Con	CAP, AL, 150 μF, 16 V, +/- 20%, 0.16 ohm, SMD	D6.6xL7.7mm
C5, C8, C9, C10	4	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 μF, 25 V, +/- 10%, X7R, 1210	1210
C13	1	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, COG/NP0, 0402	0402
C15	1	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0402	0402
C16, C25	2	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
C17	1	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 μF, 16 V, +/- 10%, X7R, 0603	0603
C18, C26	2	0.022uF	GCM155R71H223KA55D	MuRata	CAP, CERM, 0.022 μF, 50 V, +/- 10%, COG/NP0, 0402	0402
C19	1	0.01uF	GCM155R71H103KA55D	MuRata	CAP, CERM, 0.01 μF, 50 V, +/- 10%, COG/NP0, 0402	0402
C20	1	4.7uF	GRM188R61C475KAAJ	MuRata	CAP, CERM, 4.7 μF, 16 V, +/- 10%, X5R, 0603	0603
C27	1	4700pF	GRM155R71H472KA01D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0402	0402
D1	1	100V	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100V, 1A, PowerDI123	PowerDI123
D2	1	30V	BAT54WS-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
J1, J2, J3, J4	4		575-8	Keystone	Standard Banana Jack, Uninsulated, 8.9mm	Keystone575-8
L1	1	2.8uH	7443551280	Würth Elektronik	Inductor, Shielded Drum Core, WE-Perm, 2.8 μH, 17.5 A, 0.0033 ohm, SMD	WE-HCA1
L2	1	105nH	744302010	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Ferrite, 105nH, 30A, 0.000235 ohm, SMD	7x5x7mm
Q1, Q2, Q3	3	25V	CSD16415Q5	Texas Instruments	MOSFET, N-CH, 25 V, 100 A, SON 5x6mm	SON 5x6mm
Q4	1	60V	2N7002KW	Fairchild Semiconductor	MOSFET, N-CH, 60 V, 0.31 A, SOT-323	SOT-323
R1	1	10	CRCW120610R0JNEA	Vishay-Dale	RES, 10 ohm, 5%, 0.25W, 1206	1206
R2	1	0.003	ERJ-M1WSF3M0U	Panasonic	RES, 0.003, 1%, 1 W, 2512	2512
R3, R9, R12, R16	4	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
R7, R8	2	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
R10	1	25.5k	CRCW040225K5FKED	Vishay-Dale	RES, 25.5 k, 1%, 0.063 W, 0402	0402
R11	1	3.3	CRCW04023R30JNED	Vishay-Dale	RES, 3.3 ohm, 5%, 0.063W, 0402	0402
R13	1	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, 0402	0402
R14	1	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0 ohm, 1%, 0.063W, 0402	0402
R17	1	8.45k	CRCW04028K45FKED	Vishay-Dale	RES, 8.45 k, 1%, 0.063 W, 0402	0402
R18	1	15.4k	CRCW040215K4FKED	Vishay-Dale	RES, 15.4 k, 1%, 0.063 W, 0402	0402
R21	1	80.6k	CRCW040280K6FKED	Vishay-Dale	RES, 80.6 k, 1%, 0.063 W, 0402	0402
R23	1	1.69k	CRCW04021K69FKED	Vishay-Dale	RES, 1.69k ohm, 1%, 0.063W, 0402	0402
R24	1	30k	CRCW040230K0JNED	Vishay-Dale	RES, 30 k, 5%, 0.063 W, 0402	0402
R26	1	12.1k	CRCW040212K1FKED	Vishay-Dale	RES, 12.1 k, 1%, 0.063 W, 0402	0402
TP1, TP2	2	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP3, TP4, TP6	3	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP5, TP7, TP8, TP9	4	White	5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
U1	1		LM5121MH/NOPB	Texas Instruments	Wide Input Synchronous Boost Controller with Disconnection Switch Control, PWP0020A	PWP0020A
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R15	0	0.001	ERJ-M1WTF1M0U	Panasonic	RES, 0.001, 1%, 1 W, 2512	2512
R22	0	DNP	DNP1	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output

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