

Filename: PMP9416 BOM

Variant: 001

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PMP9416

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
C4	1	1000pF	CAP, CERM, 1000pF, 16V, +/-10%, X7R, 0603	0603	GRM188R71C102KA01D	MuRata
C5	1	0.01uF	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0603	0603	GRM188R71C103KA01D	MuRata
C6	1	2.2uF	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	1210	GRM32ER72A225KA35L	MuRata
C8	1	0.47uF	CAP, CERM, 0.47uF, 100V, +/-10%, X7R, 0805	0805	GRM21BR72A474KA73L	MuRata
C9	1	0.1uF	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603	06033C104JAT2A	AVX
C10	1	10uF	CAP, CERM, 10uF, 16V, +/-10%, X7R, 0805	0805	C2012X5R1E106K125AB	TDK
C11	1	0.1uF	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	0603	0603YC104JAT2A	AVX
C12	1	1uF	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603	GRM188R61C105KA93D	MuRata
C13	1	0.022uF	CAP, CERM, 0.022uF, 16V, +/-10%, X7R, 0603	0603	GRM188R71C223KA01D	MuRata
C14	1	100uF	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	1210	C3225X5R0J107M	TDK
FID1, FID2	2		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A
H1, H2, H3, H4	4		Machine Screw, Round, #4-40 x 1/4, Nylon, Phillips panhead	Screw	NY PMS 440 0025 PH	B&F Fastener Supply
H5, H6, H7, H8	4		Standoff, Hex, 0.5"L #4-40 Nylon	Standoff	1902C	Keystone
J1, J3	2		Terminal Block, 8A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm	691 111 710 002	Würth Elektronik eiSos
L1	1	22uH	Inductor, Unshielded Drum Core, Metal Composite, 22uH, 1.76A, 0.0654 ohm, SMD	7x5x7.8mm	744775122	Würth Elektronik eiSos
R4	1	51.1k	RES, 51.1k ohm, 1%, 0.1W, 0603	0603	RC0603FR-0751K1L	Yageo America
R5	1	10.0	RES, 10.0 ohm, 1%, 0.1W, 0603	0603	CRCW060310R0FKEA	Vishay-Dale
R6	1	100k	RES, 100k ohm, 0.1%, 0.1W, 0603	0603	RG1608P-104-B-T5	Susumu Co Ltd
R7	1	130k	RES, 130k ohm, 5%, 0.1W, 0603	0603	CRCW0603130KJNEA	Vishay-Dale
R8	1	3.00k	RES, 3.00k ohm, 1%, 0.1W, 0603	0603	RC0603FR-073KL	Yageo America
R9	1	2.00k	RES, 2.00k ohm, 1%, 0.1W, 0603	0603	CRCW06032K00FKEA	Vishay-Dale
R10	1	4.12k	RES, 4.12k ohm, 1%, 0.1W, 0603	0603	RC0603FR-074K12L	Yageo America
U1	1		IC, PWM, COT Controller	DNT0012B	LM5160	Texas Instruments
D2	0	100V	Diode, Schottky, 100V, 1A, PowerDI123	PowerDI123	DFLS1100-7	Diodes Inc.
R15	0	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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