

Variant: 001  
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TID #: PMP10726



PMP10726 REV E3 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		PMP10726	Any	Printed Circuit Board	
2	C1, C19	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
3	C2, C17	2	0.22uF	C1005X7R1C224K050BC	TDK	CAP, CERM, 0.22 µF, 16 V, +/- 10%, X7R, 0402	0402
4	C3, C5, C18	3	100pF	GRM1535C1H101JDD5D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
5	C4	1	0.22uF	C1608X7R1H224K080AB	TDK	CAP, CERM, 0.22uF, 50V, +/-10%, X7R, 0603	0603
6	C6	1	0.047uF	C1005X7R1H473K050BB	TDK	CAP, CERM, 0.047 µF, 50 V, +/- 10%, X7R, 0402	0402
7	C7, C10	2	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
8	C8	1	0.022uF	GCM155R71H223KA55D	MuRata	CAP, CERM, 0.022 µF, 50 V, +/- 10%, C0G/NP0, 0402	0402
9	C9	1	1000pF	885012205061	Würth Elektronik	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	0402
10	C11	1	68pF	GRM1555C1H680JA01D	MuRata	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
11	C13	1	220pF	GRM1555C1H221JA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
12	C14	1	47uF	UUD1E470MCL1GS	Nichicon	CAP, AL, 47 µF, 25 V, +/- 20%, 0.44 ohm, SMD	6.3x5.8
13	C15	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X7R, 0805	0805
14	Cin1	1	4.7uF	GRM31CR71H475KA12L	MuRata	CAP, CERM, 4.7 µF, 50 V, +/- 10%, X7R, 1206	1206
15	Cin2, Cin3, Cin4	3	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210
16	Co1, Co2, Co3	3	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 µF, 25 V, +/- 10%, X7R, 1210	1210
17	Co4	1	10uF	C3216X7R1E106M160AE	TDK	CAP, CERM, 10 µF, 25 V, +/- 20%, X7R, 1206_190	1206_190
18	Co5	1	10uF	EMK212BB7106MG-T	Taiyo Yuden	CAP, CERM, 10 µF, 16 V, +/- 20%, X7R, 0805	0805
19	D1	1	45V	BAS 52-02V H6327	Infineon Technologies	Diode, Schottky, 45 V, 0.75 A, SOD-523	SOD-523
20	D2, D3	2	100V	BAS516,115	NXP Semiconductor	Diode, Switching, 100V, 0.25A, SOD-523	SOD-523
21	D4	1	30V	SMAJ30CA	Littelfuse	Diode, TVS, Bi, 30 V, 400 W, SMA	SMA
22	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
23	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
24	J1	1		FTSH-102-01-F-DV	Samtec	Header, 1.27mm, 2x2, Gold, SMT	Header, 1.27mm, 2x2, SMT
25	L1	1	5.6uH	XAL5050-562MEB	Coilcraft	Inductor, Shielded, Composite, 5.6 µH, 6.3 A, 0.03 ohm, SMD	XAL5050
26	QH1, QH2, QL1, QL2	4	40V	BSZ097N04LS G	Infineon Technologies	MOSFET, N-CH, 40 V, 40 A, PG-TSDSON-8	PG-TSDSON-8
27	R1, R2, R3, R4	4	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
28	R5	1	2.49k	CRCW04022K49FKED	Vishay-Dale	RES, 2.49 k, 1%, 0.063 W, 0402	0402
29	R6, R20	2	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
30	R7	1	24.9	CRCW060324R9FKEA	Vishay-Dale	RES, 24.9, 1%, 0.1 W, 0603	0603
31	R8	1	115k	CRCW0402115KFKED	Vishay-Dale	RES, 115 k, 1%, 0.063 W, 0402	0402
32	R8a	1	9.53k	CRCW04029K53FKED	Vishay-Dale	RES, 9.53 k, 1%, 0.063 W, 0402	0402
33	R8b	1	4.87k	CRCW04024K87FKED	Vishay-Dale	RES, 4.87 k, 1%, 0.063 W, 0402	0402
34	R8c	1	2.80k	CRCW04022K80FKED	Vishay-Dale	RES, 2.80 k, 1%, 0.063 W, 0402	0402
35	R8d	1	2.10k	CRCW04022K10FKED	Vishay-Dale	RES, 2.10 k, 1%, 0.063 W, 0402	0402
36	R9	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
37	R10	1	3.57k	CRCW04023K57FKED	Vishay-Dale	RES, 3.57 k, 1%, 0.063 W, 0402	0402
38	R11	1	64.9k	CRCW040264K9FKED	Vishay-Dale	RES, 64.9 k, 1%, 0.063 W, 0402	0402
39	R12, R13, R15, RH1, RH2, RL1, RL2	7	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
40	R14, R16	2	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
41	R17, R18	2	3.32k	CRCW04023K32FKED	Vishay-Dale	RES, 3.32 k, 1%, 0.063 W, 0402	0402
42	R19	1	200k	CRCW0402200KFKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, 0402	0402
43	RS1, RS2	2	0.01	WSLP1206R0100FEA	Vishay-Dale	RES, 0.01, 1%, 1 W, 1206	1206
44	TP1, TP2, TP3, TP4	4		5019	Keystone	Test Point, Miniature, SMT	Test Point, Miniature, SMT
45	U1	1		LM5175PWPR	Texas Instruments	42V Wide VIN 4-Switch Synchronous Buck-Boost Controller, PWP0028F	PWP0028F
46	U2	1		TPS70933DBVR	Texas Instruments	150-mA, 30-V, 1-uA IQ Voltage Regulator with Enable, DBV0005A	DBV0005A
47	U3	1		TPL0401A-10DCKR	Texas Instruments	128 TAPS Single Channel Digital Potentiometer with I2C Interface, DCK0006A	DCK0006A
48	C12	0	100pF	GRM1535C1H101JDD5D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
49	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial