

PMP4442 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		PMP4442	Any	Printed Circuit Board	
2	C3, C4, C8, C14, C17, C24, C27, C31, C36, C38, C44, C49, C56	13	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
3	C5, C6, C7	3	4.7uF	GRM32ER71H475KA88L	MuRata	CAP, CERM, 4.7 µF, 50 V, +/- 10%, X7R, 1210	1210
4	C9, C10, C11, C15, C16, C28	6	47uF	GRM32ER70J476KE20L	MuRata	CAP, CERM, 47 µF, 6.3 V, +/- 10%, X7R, 1210	1210
5	C12, C13, C25, C26, C39, C41	6	10uF	C3216X7R1A106M085AC	TDK	CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, 1206	1206
6	C18	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
7	C19	1	560pF	GRM1885C1E561JA01D	MuRata	CAP, CERM, 560 pF, 25 V, +/- 5%, C0G/NP0, 0603	0603
8	C20, C33	2	18pF	GRM1885C1H180JA01D	MuRata	CAP, CERM, 18 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
9	C21	1	6800pF	GRM188R71E682KA01D	MuRata	CAP, CERM, 6800 pF, 25 V, +/- 10%, X7R, 0603	0603
10	C22	1	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
11	C29, C30	2	22uF	C1210C226K9RACTU	Kemet	CAP, CERM, 22 µF, 6.3 V, +/- 10%, X7R, 1210	1210
12	C32	1	0.01uF	GRM188R70J103KA01D	MuRata	CAP, CERM, 0.01 µF, 6.3 V, +/- 10%, X7R, 0603	0603
13	C34	1	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
14	C35, C37	2	4.7uF	GRM31CR71A475KA01L	MuRata	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X7R, 1206	1206
15	C40	1	0.47uF	GRM21BR71H474KA88L	MuRata	CAP, CERM, 0.47 µF, 50 V, +/- 10%, X7R, 0805	0805
16	C45, C46, C47, C48	4	22uF	GRM31CR71A226KE15L	MuRata	CAP, CERM, 22 µF, 10 V, +/- 10%, X7R, 1206	1206
17	D1	1	200V	CDBZ320200-HF	Comchip Technology	Diode, Schottky, 200V, 20A, PowerDI5	PowerDI5
18	J9, J10, J11, J12, J13, J14	6	2x1	1751248	Phoenix Contact	Conn Term Block, 2POS, 3.5mm, TH	11x8.5x7.3mm
19	L1, L3	2	950nH	744310095	Würth Elektronik	Inductor, Shielded Drum Core, Superflux, 950 nH, 11 A, 0.0065 ohm, SMD	7.0x3.0x6.9mm
20	L2	1	2.2uH	744311220	Würth Elektronik	Inductor, Shielded Drum Core, Superflux, 2.2 µH, 9 A, 0.0115 ohm, SMD	WE-HC4
21	L4	1	1.5uH	744310150	Würth Elektronik	Inductor, Shielded Drum Core, WE-Superflux200, 1.5 µH, 7.5 A, 0.0127 ohm, SMD	7.0x3.0x6.9mm
22	L5	1	2uH	744310200	Würth Elektronik	Inductor, Shielded Drum Core, Superflux, 2 µH, 6.5 A, 0.014 ohm, SMD	7.0x3.0x6.9mm
23	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
24	R3, R4, R20, R40, R41	5	51.1	CRCW060351R1FKEA	Vishay-Dale	RES, 51.1, 1%, 0.1 W, 0603	0603
25	R5	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
26	R6	1	182k	CRCW0603182KFKEA	Vishay-Dale	RES, 182 k, 1%, 0.1 W, 0603	0603
27	R7	1	5.76k	CRCW06035K76FKEA	Vishay-Dale	RES, 5.76 k, 1%, 0.1 W, 0603	0603
28	R8, R10, R47	3	51.1k	CRCW060351K1FKEA	Vishay-Dale	RES, 51.1 k, 1%, 0.1 W, 0603	0603
29	R9, R13, R22, R23, R42, R43, R44	7	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
30	R11	1	90.9k	CRCW060390K9FKEA	Vishay-Dale	RES, 90.9 k, 1%, 0.1 W, 0603	0603
31	R12	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603
32	R14, R25, R35, R37	4	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
33	R15, R26, R38	3	274k	CRCW0603274KFKEA	Vishay-Dale	RES, 274 k, 1%, 0.1 W, 0603	0603
34	R16, R24	2	82.5k	CRCW060382K5FKEA	Vishay-Dale	RES, 82.5 k, 1%, 0.1 W, 0603	0603
35	R17, R33	2	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
36	R19	1	24.3k	CRCW060324K3FKEA	Vishay-Dale	RES, 24.3 k, 1%, 0.1 W, 0603	0603

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37	R21	1	7.50k	CRCW06037K50FKEA	Vishay-Dale	RES, 7.50 k, 1%, 0.1 W, 0603	0603
38	R27, R28	2	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, 0603	0603
39	R34	1	12.1k	CRCW060312K1FKEA	Vishay-Dale	RES, 12.1 k, 1%, 0.1 W, 0603	0603
40	R36	1	301k	CRCW0603301KFKEA	Vishay-Dale	RES, 301 k, 1%, 0.1 W, 0603	0603
41	R39	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
42	R45	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
43	R46	1	121k	CRCW0603121KFKEA	Vishay-Dale	RES, 121 k, 1%, 0.1 W, 0603	0603
44	R48	1	243k	CRCW0603243KFKEA	Vishay-Dale	RES, 243 k, 1%, 0.1 W, 0603	0603
45	R55	1	4.75	CRCW06034R75FKEA	Vishay-Dale	RES, 4.75, 1%, 0.1 W, 0603	0603
46	R56	1	18.2k	CRCW060318K2FKEA	Vishay-Dale	RES, 18.2 k, 1%, 0.1 W, 0603	0603
47	U1	1		TPS54388QRTERQ1	Texas Instruments	2.95-V to 6-V Input, 3-A Output, 2-MHz, Synchronous Step-Down SWIFT Switcher, RTE0016F	RTE0016F
48	U2	1		TPS54561DPRQ1	Texas Instruments	4.5-V to 60-V Input, 5-A, Step Down DC-DC Converter with Soft-Start and Eco-mode™, DPR0010A	DPR0010A
49	U3	1		TPS57114QRTERQ1	Texas Instruments	2.95 V to 6 V Input, 4-A Output, 2MHz, Synchronous Step Down Switcher, RTE0016F	RTE0016F
50	U4	1		TLV70030QDCKRQ1	Texas Instruments	200-mA, Low-IQ, LDO Regulator for Portable Devices, DCK0005A	DCK0005A
51	U5	1		LM26420Q1XSQ/NOPB	Texas Instruments	Dual 2-A, High Frequency Synchronous Buck Regulator, RUM0016A	RUM0016A
52	C1, C2, C23, C42, C43, C50, C52, C54	0	NA			Capacitor	RAD-0.3
53	C51, C53, C55	0	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
54	J1, J2, J3, J4, J5, J6, J7, J8	0		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
55	R1, R2, R18, R31, R32	0	NA			Resistor	AXIAL-0.3
56	R49, R51, R53	0	4.75k	CRCW06034K75FKEA	Vishay-Dale	RES, 4.75 k, 1%, 0.1 W, 0603	0603
57	R50, R52, R54	0	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, 0603	0603

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