

PMP10799 REV B Bill of Materials



Designator	Quantity	Value	PartNumber	Manufacturer	Description	Package
C1, C2, C3, C4	4	10uF	GRM32ER61H106MA12	MuRata	CAP, CERM, 10uF, 50V, +/-20%, X5R, 1210	1210
C5, C12	2	1000pF	C1608X7R1H102K	TDK	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C6, C13	2	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C7	1	33pF	C1608C0G1H330J	TDK	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C8	1	4700pF	C1608C0G1E472J	TDK	CAP, CERM, 4700 pF, 25 V, +/- 5%, C0G/NP0, 0603	0603
C9	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, 0805	0805
C10	1	180uF	16SVPF180M	Sanyo	CAP, OS-CON, 180 uF, 16 V, +/- 20%, 0.022 ohm, 6.3x5.9 SMD	6.3x5.8
C11	1	10uF	GRM31CR71C106MAC7	MuRata	CAP, CERM, 10 uF, 16 V, +/- 20%, X7R, 1206	1206
C14	1	0.033uF	C1608X7R1H333K	TDK	CAP, CERM, 0.033 uF, 50 V, +/- 10%, X7R, 0603	0603
C15	1	1uF	C1608X5R1C105K	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0603	0603
C16	1	1500pF	C1608C0G1H152J	TDK	CAP, CERM, 1500 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
J1, J4	2		ED555/2DS	On-Shore Tech	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
J2, J3	2		PEC02SAAN	Sullins	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
L1	1	10uH	XAL1510-103ME	Coilcraft	Inductor, Shielded, Composite, 10 uH, 22 A, 0.0068 ohm, SMD	15.4 x 11 x 16.4mm
L2	1				Inductor, open, SMD	12.3x10x12.3mm
Q1, Q2	2	40V	CSD18504Q5A	Texas Instruments	MOSFET, N-CH, 40 V, 5.3 milliohm, 7.7nC, SON 5x6mm	SON 5x6mm
R1	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R2	1	301k	CRCW0603301KFKEA	Vishay-Dale	RES, 301 k, 1%, 0.1 W, 0603	0603
R3, R9	2	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R4, R10, R11	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R5, R6, R7	3	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, 0603	0603
R8	1	2.70	ERJ-8RQF2R7V	Panasonic	RES, 2.70, 1%, 0.25 W, 1206	1206
R12	1	11.8k	CRCW060311K8FKEA	Vishay-Dale	RES, 11.8 k, 1%, 0.1 W, 0603	0603
R13	1				RES, open, 0603	0603
R14	1	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, 0603	0603
R15, R17	2	2.61k	CRCW06032K61FKEA	Vishay-Dale	RES, 2.61 k, 1%, 0.1 W, 0603	0603
R16	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R18	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
TP1, TP3, TP4, TP5, TP7, TP8	6	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP6	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		TPS40170RGY	Texas Instruments	4.5-v to 60-v wide-input synchronous PWM buck controller, RGY0020A	RGY0020A

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