

PMP10902 REV B Bill of Materials



Designator	Quantity	Value	PartNumber	Manufacturer	Description	Package
C1, C2, C3	3	10uF	GMK325BJ106KN-T	Taiyo Yuden	CAP, CERM, 10 μ F, 35 V, +/- 10%, X5R, 1210	1210
C4	1				CAP, open, 1210	1210
C5	1	1000pF	C1608X7R1H102K	TDK	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C6, C14, C18	3	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C7	1	47pF	C1608C0G1H470J	TDK	CAP, CERM, 47 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 μ F, 16 V, +/- 10%, X7R, 0805	0805
C10	1	100uF	T521X107M025ATE060	Kemet	CAP, TA, 100 μ F, 25 V, +/- 20%, 0.060 ohm, SMD	7343-43
C11	1	68uF	TPME686K025R0045	Kemet	CAP, TA, 68 μ F, 25 V, +/- 20%, 0.045 ohm, SMD	7343-43
C12	1	10uF	GRM31CR71C106MAC7	MuRata	CAP, CERM, 10 μ F, 16 V, +/- 20%, X7R, 1206	1206
C15	1	0.033uF	C1608X7R1H333K	TDK	CAP, CERM, 0.033 μ F, 50 V, +/- 10%, X7R, 0603	0603
C16	1	1uF	C1608X5R1C105K	TDK	CAP, CERM, 1 μ F, 16 V, +/- 10%, X5R, 0603	0603
C13, C17, C19	3	1000pF	C1608C0G1H102J	TDK	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
J1, J4	2		ED555/2DS	OST	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		IHLP5050 Footprint		Inductor, open, SMD	
L2	1	10uH	IHLP4040DZER100M11	Vishay-Dale	Inductor, Shielded, Powdered Iron, 10 μ H, 7.1 A, 0.0278 ohm, SMD	IHLP-4040DZ
Q1, Q3	2				MOSFET, open, Power 33	Power 33
Q2	1	30V	CSD87330Q3D	Texas Instruments	MOSFET, N/P-CH, 30 V, 20 A, 3.4x1.4x3.4mm	3.4x1.4x3.4mm
R1	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603
R2	1	64.9k	CRCW060364K9FKEA	Vishay-Dale	RES, 64.9 k, 1%, 0.1 W, 0603	0603
R3	1	16.2k	CRCW060316K2FKEA	Vishay-Dale	RES, 16.2 k, 1%, 0.1 W, 0603	0603
R4, R11, R12	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R5	1				RES, open, 0603	0603
R6	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, 0603	0603
R7	1	10	CRCW060310R0FKEA	Vishay-Dale	RES, 10, 1%, 0.1 W, 0603	0603
R8	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R9	1	2.7	ERJ-8RQF2R7V	Panasonic	RES, 2.70, 1%, 0.25 W, 1206	1206
R10	1	12.1k	CRCW060312K1FKEA	Vishay-Dale	RES, 12.1 k, 1%, 0.1 W, 0603	0603
R13	1	4.53k	CRCW06034K53FKEA	Vishay-Dale	RES, 4.53 k, 1%, 0.1 W, 0603	0603
R14	1				RES, open, 0603	0603
R15	1	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, 0603	0603
R16	1	2.61k	CRCW06032K61FKEA	Vishay-Dale	RES, 2.61 k, 1%, 0.1 W, 0603	0603
R17	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R18	1	5.62k	CRCW06035K62FKEA	Vishay-Dale	RES, 5.62 k, 1%, 0.1 W, 0603	0603
R19	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
TP1, TP3, TP4, TP5, TP7, TP9	6	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
TP2, TP6, TP8	3	Black	5001	Keystone	Test Point, TH, Miniature, Black	Keystone5001
U1	1		TPS40170RGY	Texas Instruments	4.5-v to 60-v wide-input synchronous PWM buck controller, RGY0020A	RGY0020A

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