



PMP11494 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	Package
C1, C2, C3, C4, C5, C6, C7, C8	8	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 μ F, 100 V, +/- 10%, X7R, 1210	1210
C9	1	220uF	EEV-FK1J221Q	Panasonic	CAP, AL, 220 μ F, 63 V, 0.8Arms, 0.16 ohm, SMD	SMT Radial H13
C10, C18	2	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C11, C16	2	1000pF	C1608X7R1H102K	TDK	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C12	1	120uF	35SVPF120M	Panasonic	CAP, Aluminum Polymer, 120 μ F, 35 V, +/- 20%, 0.018 ohm, F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm SMD	F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm
C13	1	10uF	C3225X7R1H106M250AC	TDK	CAP, CERM, 10 μ F, 50 V, +/- 20%, X7R, 1210	1210
C14	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 μ F, 16 V, +/- 10%, X7R, 0805	0805
C15, C21	2	1000pF	C1608C0G1H102J	TDK	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C17	1	1uF	C1608X5R1C105K	TDK	CAP, CERM, 1 μ F, 16 V, +/- 10%, X5R, 0603	0603
C19	1	0.47uF	GRM21BR72A474KA73L	MuRata	CAP, CERM, 0.47 μ F, 100 V, +/- 10%, X7R, 0805	0805
C20	1	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C22	1	4700pF	C1608C0G1E472J	TDK	CAP, CERM, 4700 pF, 25 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	3.3uH	DR127-3R3-R	Coiltronics	Inductor, Shielded Drum Core, Ferrite, 3.3 μ H, 10.5 A, 0.00567 ohm, SMD	DR127
L2	1	15uH	SER2918H-153KL	Coilcraft	Inductor, Shielded E Core, Ferrite, 15 μ H, 21.9 A, 0.0026 ohm, SMD	29.7x17.78x27.94mm
Q1, Q2	2	100V	CSD19534Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 10 A, SON 5x6mm	SON 5x6mm
Q3	1	100V	CSD19532Q5B	Texas Instruments	MOSFET, N-CH, 100 V, 17 A, SON 5x6mm	SON 5x6mm
Q4	1		open	Texas Instruments	MOSFET, open, SON 5x6mm	SON 5x6mm
R1	1	2.00	CRCW25122R00FKEG	Vishay-Dale	RES, 2.00, 1%, 1 W, 2512	2512
R2	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R3, R4, R8	3	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.1 W, 0603	0603
R5, R7, R12	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R6	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R9	1	22.6k	CRCW060322K6FKEA	Vishay-Dale	RES, 22.6 k, 1%, 0.1 W, 0603	0603
R10	1	2.70	ERJ-8RQF2R7V	Panasonic	RES, 2.70, 1%, 0.25 W, 1206	1206
R11, R14	2				RES, open, 0603	0603
R13	1	16.9k	CRCW060316K9FKEA	Vishay-Dale	RES, 16.9 k, 1%, 0.1 W, 0603	0603
R15	1	78.7k	CRCW060378K7FKEA	Vishay-Dale	RES, 78.7 k, 1%, 0.1 W, 0603	0603
R16	1	1.37k	CRCW06031K37FKEA	Vishay-Dale	RES, 1.37 k, 1%, 0.1 W, 0603	0603
R17	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R18	1	14.7k	CRCW060314K7FKEA	Vishay-Dale	RES, 14.7 k, 1%, 0.1 W, 0603	0603
R19	1	53.6k	CRCW060353K6FKEA	Vishay-Dale	RES, 53.6 k, 1%, 0.1 W, 0603	0603
R20	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
TP1, TP3, TP4, TP5, TP6, TP8	6	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	Package
TP2, TP7	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		TPS40170RGYR	Texas Instruments	4.5-v to 60-v wide-input synchronous PWM buck controller, RGY0020A	RGY0020A

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