

# Bill of Materials

PMP9478

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	Note
1	10	SVN, SVP, 15VN, 15VP, GND	Double	Terminal, Turret, TH, Double	Keystone	1502-2	Keystone1502-2	
2	1	C1	1uF	CAP, CERM, 1uF, 100V, +/-10%, X7R, 1210	MuRata	GRM32CR72A105KA35L	1210	
3	1	C2	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	Kemet	C0805C104K1RACTU	0805_HV	
4	1	C3	10uF	CAP, CERM, 10uF, 25V, +/-10%, X7R, 1206	MuRata	GRM31CR71E106KA12L	1206	
5	5	C4, C9, C10, C11, C13	2.2uF	CAP, CERM, 2.2uF, 25V, +/-10%, X7R, 0805	MuRata	GRM21BR71E225KA73L	0805_HV	
6	1	C5	1uF	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	Kemet	C0603C105K4PACTU	0603	
7	1	C6	1000pF	CAP, CERM, 1000pF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E102KA01D	0603	
8	1	C7	0.01uF	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H103KA01D	0603	
9	1	C8	0.01uF	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C103KA01D	0603	
10	1	C12	1000pF	Ceramic, X7R, 1000V, 10%	Vishay-Vitramon	VJ1210Y102KXGAT5Z	1808	
11	1	D1	0.58V	Diode, Schottky, 45V, 0.1A, SOD-523	Diodes Inc.	SDM10U45-7-F	SOD-523	
12	2	D2, D5	0.85V	Diode, Schottky, 200V, 1A, PowerDI123	Diodes Inc.	DFLS1200-7	powerDI123	
13	2	D3, D4	0.57V	Diode, Schottky, 60V, 1A, SOD-123F	NXP Semiconductor	PMEG6010CEH,115	SOD-123F	
14	2	FB, SW	Red	Test Point, TH, Miniature, Red	Keystone	5000	Keystone5000	
15	1	GND	Black	Test Point, TH, Miniature, Black	Keystone	5001	Keystone5001	
16	1	R1	4.42k	RES, 4.42k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K42FKEA	0603	
17	2	R2, R6	20.0k	RES, 20.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060320K0FKEA	0603	
18	1	R3	158k	RES, 158k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-07158KL	0603	
19	1	R4	49.9k	RES, 49.9k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060349K9FKEA	0603	
20	1	R5	340k	RES, 340k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603340KFKEA	0603	
21	2	R7, R10	2.00k	RES, 2.00k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08052K00FKEA	0805_HV	
22	2	R8, R9	1.00k	RES, 1.00k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08051K00FKEA	0805_HV	
23	1	T1	45uH	Transformer, 12pin SMT, 45uH, 2:1:2:1:2, 12.95mm x 12.70mm x 5.98mm (h)	Würth Electronics Midcom Inc	750314442	Würth ER11.5 12pin SMT package	
24	1	U1		100V, 600mA Constant On-Time Synchronous Buck Regulator	Texas Instruments	LM5017MR	MRA08A_N	

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