

Bill of Materials

PMP10543

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	Note
1	10	5VN, 5VP, 12VN, 12VP, GND1, GND2, IGND1, IGND2, Vin, Vopri	Double	Terminal, Turret, TH, Double	Keystone	1502-2	Keystone1502-2	
2	2	C1, C2	2.2uF	CAP, CERM, 2.2 μ F, 25 V, +/- 10%, X5R, 0805	MuRata	GRM21BR61E225KA12L	0805 HV	
3	1	C3	1000pF	CAP, CERM, 1000 pF, 1000 V, +/- 5%, COG/NPO, 1210	Vishay-Vitramon	VJ1210A102JXGAT5Z	1210	
4	2	C4, C5	2.2uF	CAP, CERM, 2.2 μ F, 16 V, +/- 10%, X7R, 0805	Kemet	C0805C225K4RACTU	0805 HV	
5	2	C6, C7	0.01uF	CAP, CERM, 0.01 μ F, 25 V, +/- 5%, COG/NPO, 0603	TDK	C1608COG1E103J080AA	0603	
6	1	C8	1000pF	CAP, CERM, 1000 pF, 25 V, +/- 5%, COG/NPO, 0603	MuRata	GRM1885C1E102JA01D-ND	0603	
7	2	C9, C10	10uF	CAP, CERM, 10 μ F, 25 V, +/- 20%, X7R, 1210	TDK	C3225X7R1E106M250AC	1210	
8	1	C11	1uF	CAP, CERM, 1 μ F, 16 V, +/- 10%, X5R, 0603	TDK	C1608X5R1C105K080AA	0603	
9	1	C12	1uF	CAP, CERM, 1 μ F, 100 V, +/- 10%, X7R, 1210	TDK	C3225X7R2A105K200AA	1210	
10	1	C13	0.1uF	CAP, CERM, 0.1 μ F, 100 V, +/- 10%, X7R, 0805	TDK	C2012X7R2A104K125AA	0805 HV	
11	4	D1, D2, D3, D4	90V	Diode, Schottky, 90 V, 1 A, SOD-123	Rohm	RB160M-90TR	SOD-123	
12	1	D5	45V	Diode, Schottky, 45 V, 0.1 A, SOD-523	Diodes Inc.	SDM10U45-7	SOD-523	
13	2	FB, SW	Red	Test Point, Miniature, Red, TH	Keystone	5000	Keystone5000	
14	1	GND	Black	Test Point, Miniature, Black, TH	Keystone	5001	Keystone5001	
15	2	R1, R4	2.00k	RES, 2.00 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06032K00FKEA	0603	
16	2	R2, R3	1.00k	RES, 1.00 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06031K00FKEA	0603	
17	1	R5	40.2k	RES, 40.2 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0740K2L	0603	
18	1	R6	100k	RES, 100 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603100KFKEA	0603	
19	1	R7	301k	RES, 301 k, 1%, 0.063 W, 0603	TE Connectivity	1879339-3	0603	
20	1	R8	140k	RES, 140 k, 0.5%, 0.1 W, 0603	Yageo America	RT0603DRE07140KL	0603	
21	1	R9	8.87k	RES, 8.87 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06038K87FKEA	0603	
22	1	R10	20.0k	RES, 20.0 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060320K0FKEA	0603	
23	1	T1	45uH	XFMR, SMT 45uH, 750314459	Würth Elektronik	750314459	XFMR_Wurth_ER11p5_12pin_SMT	
24	1	U1		100V Constant On-Time PFET Buck Switching Controller, 8-pin PSOP, Pb-Free	Texas Instruments	LM5017MRX-ND	MRA08A_N	

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