

Bill of Materials

TI DESIGNS PMP10531

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	Note
1	5	C1, C10, C16, C21, C26	10uF	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	MuRata	GRM32ER71H106KA12L	1210	
2	9	C2, C9, C13, C15, C18, C20, C23, C25, C28	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H104K	0603	
3	2	C3, C6	0.01uF	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H103K	0603	
4	12	C4, C7, C8, C11, C12, C14, C17, C19, C22, C24, C27, C42	22uF	CAP, CERM, 22uF, 25V, +/-10%, X7R, 1210	MuRata	GRM32ER71E226KE15L	1210	
5	1	C5	1uF	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	TDK	C1608X7R1E105K080AB	0603	
6	1	Cac	1000pF	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H102K	0603	
7	1	Cr	0.01uF	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H103KA01D	0603	
8	4	D1, D3, D5, D7	1.1V @ 100mA	DIODE ZENER 15V 550MW SOD323F	NXP Semiconductors	BZX84J-B15,115	SOD-323F	
9	4	D2, D4, D6, D8	820mV @ 1A	DIODE SBR 200V 1A POWERDI123	Diodes Incorporated	SBR1U200P1-7	powerDI123	
10	2	GND2, Vin	Double	Terminal, Turret, TH, Double	Keystone	1502-2	Keystone1502-2	
11	4	JB, JUT, JVT, JWT		Terminal Block, 6A, 3.5mm Pitch, 3-Pos, TH	On-Shore Technology	ED555/3DS	TERM_BLK_ED555-3DS	
12	1	R1	8.45k	RES, 8.45k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06038K45FKEA	0603	
13	1	R2	100k	RES, 100k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100KFKEA	0603	
14	1	R3	453k	RES, 453k ohm, 1%, 0.1 W, 0603	Yageo America	RC0603FR-07453KL	0603	
15	4	R4, R5, R6, R7	511	RES, 511 ohm, 1%, 0.125 W, 0805	Vishay-Dale	CRCW0805511RFKEA	0805_HV	
16	2	Rfbb, Rr	20.5k	RES, 20.5 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060320K5FKEA	0603	
17	1	Rfbt	86.6k	RES, 86.6 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060386K6FKEA	0603	
18	1	SW	White	Test Point, Miniature, White, TH	Keystone	5002	Keystone5002	
19	1	T1	45uH	Transformer, Thru-Hole, 36.5uH, 1:2.33:2.33:2.33:2.33	Würth Electronics Midcom	750315038	WURTH_750315038	
20	1	U1		Wide Input 65V, 1.5A Synchronous Step-Down DC-DC	Texas Instruments	LM5160DNT	DNT0012B	
21	1	Vpri	Red	Test Point, TH, Miniature, Red	Keystone	5000	Keystone5000	

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