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176VAC to 576VAC Flyback with BJT switch

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
!PCB1	1		Printed Circuit Board		PMP9243	Any	-	-
C1, C6	2	2.2uF	CAP ALUM 2.2UF 450V 20% SMD	SMT Radial E	ULH2W2R2MNL1GS	Nichicon		
C2	1	220uF	CAP ALUM 220UF 25V 20% RADIAL	RCAP 8x11.5mm	EEU-FM1E221	Panasonic		
C3	1	22uF	CAP, CERM, 22uF, 25V, +/-20%, X5R, 1210	1210	12103D226MAT2A	AVX		
C4, C5	2	0.1uF	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603	06033C104JAT2A	AVX		
C7	1	1000pF	CAP, CERM, 1000pF, 300V, +/-20%, Y5U, Radial Disc 7.5mm, ls=7.5	Radial Disc 7.5mm, ls=7.5	VY2102M29Y5UG63V7	Vishay-Bccomponents		
C8	1	10uF	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	1210	GRM32ER71H106KA12L	MuRata		
D1	1	200V	DIODE SCHOTTKY 200V 1A SMA	SMA	SS1200-LTP	Micro Commercial Componen		
D2	1	200V	DIODE ZENER 200V 3W DO214AC	SMA	3SMAJ5956B	Micro Commercial Co		
D3	1	1000V	Diode, Switching-Bridge, 1000V, 1A, DF-S	DF-S	DF10SA	Vishay-Semiconductor		
D4	1	1.7V	Diode, Ultrafast, 1000V, 1A, SMA	SMA	US1M-13-F	Diodes Inc.		
D5	1		DIODE SWITCH 200V 200MA SOD323	SOD-323	BAS20HT1G			
L1	1	100uH	Inductor, Unshielded Drum Core, Ferrite, 100uH, 0.8A, 0.457 ohm, TH	D6 x 8.5mm	7447462101	Wurth Elektronik eiSos		
Line, Neutral, TP1, TP2	4		PCB Pin, Swage Mount, TH	3104-2	3104-2-00-34-00-00-08-0	Mill-Max		
Q1	1	2V	TRANSISTOR NPN 800V 3A I2PAK	TO-126	FJI5603DTU	Fairchild		
R1, R2, R4, R6	4	4.7Meg	RES, 4.7Meg ohm, 5%, 0.25W, 1206	1206	CRCW12064M70JNEA	Vishay-Dale		
R3	1	5.1k	RES, 5.1k ohm, 5%, 0.125W, 0805	0805	CRCW08055K10JNEA	Vishay-Dale		
R5	1	1.00k	RES, 1.00k ohm, 1%, 0.125W, 0805	0805	CRCW08051K00FKEA	Vishay-Dale		
R7	1	2.2	RES, 2.2 ohm, 5%, 0.1W, 0603	0603	CRCW06032R20JNEA	Vishay-Dale		
R8	1	109k	RES, 109k ohm, 0.1%, 0.1W, 0603	0603	RT0603BRD07109KL	Yageo America		
R9	1	750	RES, 750 ohm, 1%, 0.1W, 0603	0603	CRCW0603750RFKEA	Vishay-Dale		
R10	1	3.0	RES, 3.0 ohm, 5%, 0.125W, 0805	0805	CRCW08053R00JNEA	Vishay-Dale		
R11	1	21.5k	RES, 21.5k ohm, 1%, 0.125W, 0805	0805	CRCW080521K5FKEA	Vishay-Dale		
RF1	1	10.0	RES 10.0 OHM 1/8W 5% 1206	1206	1879229-4	TE Connectivity		
T1	1	1mH	Transformer, 1.80mH, TH	20.25x10.16x13.72mm	RLTI-1105	Renco		
U1	1		CONSTANT-VOLTAGE, CONSTANT-CURRENT CONTROLLER WITH PRIMARY SIDE REGULATION, D0007A	D0007A	UCC28720D	Texas Instruments		None
R12	0	100k	RES, 100k ohm, 1%, 0.1W, 0603	0603	CRCW0603100KFKEA	Vishay-Dale		

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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