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Universal AC Input to 5V/0.3A using UCC28910

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
IPC81	1		Printed Circuit Board		PMP9689	Any	-	-
C2	1	820uF	CAP, AL, 820uF, 6.3V, +/-20%, 0.008 ohm, TH	RCAP, 6.3x8mm	6.3ZL820MEFC8x16	Rubycon		
C3	1	22uF	CAP, CERM, 22uF, 6.3V, +/-20%, X5R, 1206	1206	C3216X5R0J226K	TDK		
C4	1	0.1uF	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0805	0805	08053C104KAT2A	AVX		
C5	1	6.8uF	CAP, AL, 6.8uF, 400V, +/-20%, TH	8x11	400AX6R8M8x11	Rubycon		
C6	1	2200pF	CAP, CERM, 2200pF, 300V, +/-20%, Y5U, CAPRD500W60D900H1200	CAPRD500W60D900H1200	VY2222M35Y5US63V7	Vishay-Bccomponents		
C7	1	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	06035C104KAT2A	AVX		
C8	1	18uF	CAP, AL, 18uF, 35V, +/-20%, TH	RCAP, 5x5mm	35ZL18MEFC5X7	Rubycon		
D1	1	1.7V	Diode, Ultrafast, 600V, 1A, SMA	SMA	US1J-E3/5AT	Diodes Inc.		
D2	1	40V	Diode, Schottky, 40V, 1A, SMA	SMA	B140-13-F	Diodes Inc.		
D3	1	160V	Diode, TVS, Uni, 160V, 3W, SMB	SMB	1SMB5954BT3G	Diodes Inc.		
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			
L	1	Red	Test Point, TH, Miniature, Red	Keystone5000	5000	Keystone		
N	1	Black	Test Point, TH, Miniature, Black	Keystone5001	5001	Keystone		
R2	1	2.0k	RES, 2.0k ohm, 5%, 0.1W, 0603	0603	CRCW06032K00JNEA	Vishay-Dale		
R3	1	1.00	RES, 1.00 ohm, 1%, 0.1W, 0603	0603	RC0603FR-071RL	Yageo America		
R4	1	60.4k	RES, 60.4k ohm, 1%, 0.1W, 0603	0603	CRCW060360K4FKEA	Vishay-Dale		
R5	1	2.43k	RES, 2.43k ohm, 1%, 0.1W, 0603	0603	CRCW06032K43FKEA	Vishay-Dale		
R6	1	16.5k	RES, 16.5k ohm, 1%, 0.1W, 0603	0603	CRCW060316K5FKEA	Vishay-Dale		
T1	1	800uH	Transformer, 800uH, TH	430x480x420mils	RLTI-1113	Renco Electronics		
TP1	1	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone		
TP2	1	Black	Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone		
U1	1		LOW STAND-BY POWER, CV / CC PWM HV SWITCHER WITH PRIMARY SIDE REGULATION, D0007A	D0007A	UCC28910D	Texas Instruments		None
C1	0	100pF	CAP, CERM, 100pF, 100V, +/-5%, C0G/NP0, 0603	0603	C1608C0G2A101J	TDK		
R1	0	DNP	RES, 0 ohm, 5%, 0.125W, 0805	0805	CRCW08050000Z0EA	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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