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UCC28881 High-side Buck Converter

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
C1	1	0.022uF	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 1206	1206	12065C223KAT2A	AVX		
C2	1	1uF	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 1206	1206	CC1206KKX7R7BB105	Yageo America		
C4	1	6.8uF	CAP, AL, 6.8uF, 400V, +/-20%, TH	8x11	400AX6R8M8x11	Rubycon		
C5	1	330uF	CAP ALUM POLY 330UF 20% 16V T/H		16SEP330M	Panasonic Electronic Compon		
D1, D4	2	1000V	Diode, P-N, 1000V, 1A, TH	DO-41	1N4007	Fairchild Semiconductor		
D2	1	600V	DIODE FAST REC 600V 1A DO214AC	SMA	ES1J-TP	Diodes Inc.		
D3	1	600V	Diode, Ultrafast, 600V, 1A, SMB	SMB	MJRS160-13-F	Diodes Inc.		
L2	1	2.2mH	INDUCTOR 2200UH .21A RADIAL	D6 x 8.5mm	744741222	Würth Elektronik eiSos		
R1	1	42.2k	RES, 42.2 k, 1%, 0.1 W, 0603	0603	CRCW060342K2FKEA	Vishay-Dale		
R2	1	10.0k	RES, 10.0k ohm, 1%, 0.1W, 0603	0603	CRCW060310K0FKEA	Vishay-Dale		
R3	1	1.00k	RES, 1.00 k, 1%, 0.25 W, 1206	1206	CRCW12061K00FKEA	Vishay-Dale		
RF1	1	4.7	RES, 4.7 ohm, 5%, 1W, Fusible, TH	Axial resistor	FKN1WSJR-52-4R7	Yageo America		
TP1, TP2	2	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone		
TP3, TP4	2	Black	Test Point, TH, Miniature, Black	Keystone5001	5001	Keystone	Equivalent	Any
U1	1		Low Quiescent Current Switcher IC for AC/DC Power Supplies, D0007A	D0007A	UCC28880D	Texas Instruments		None
C3	0	6.8uF	CAP, AL, 6.8uF, 400V, +/-20%, TH	8x11	400AX6R8M8x11	Rubycon		
L1	0	1mH	Inductor, Unshielded Drum Core, Ferrite, 1mH, 0.25A, 4.38 ohm, TH	D6 x 8.5mm	7447462102	Würth Elektronik eiSos		

Notes:

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

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