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UCC28630 75W Flyback

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
IPC B1	1		Printed Circuit Board		PMP10335	Any		
C1, C2	2	68uF	CAP ALUM 68UF 400V 20% RADIAL	18x20mm	400BXW68MEFC18X20	Rubycon		
C4, C5, C7	3	1000uF	CAP. AL, 1000uF, 16V, +/-20%, TH	CAPPR5-10x16	16ZLJ1000MCE10X16	Rubycon		
C8, C12	2	470pF	CAP. CERM, 470pF, 300V, +/-10%, VY2, 5x7.5 mm	5x7.5 mm	VY2471K29Y5SS63V7	Vishay-Bccomponents		
C9	1	1uF	CAP. CERM, 1 uF, 16 V, +/- 10%, X5R, 0603	0603	C0603C105K4PACTU	Kemet		
C10	1	0.1uF	CAP. CERM, 0.1uF, 25V, +/-10%, X7R, 0805	0805	08053C104KAT2A	AVX		
C11	1	0.33uF	CAP, Film, 0.33uF, 275V, +/-20%, TH	RCAP, 17.5x17.5x9.5mm	EQC-U2A334ML	Panasonic		
C13	1	2200pF	CAP. CERM, 0.022uF, 300V, +/-20%, Y5U, CAPRD500W60D900H1200	CAPRD500W60D900 H1200	VY2222M35Y5US6UV5	Vishay-Bccomponents		
C14	1	1000pF	CAP. CERM, 1000pF, 100V, +/-10%, X7R, 0805	0805	C0805C102K1RACTU	Kemet		
C15	1	22uF	CAP. AL, 22uF, 25V, +/-20%, TH	RCAP, 5x5mm	25ML22MEFC5X5	Rubycon		
C16	1	10pF	CAP. CERM, 10pF, 50V, +/-5%, C0G/NP0, 0603	0603	C0603C100J5GACTU	Kemet		
C17	1	120pF	CAP. CERM, 120pF, 50V, +/-5%, C0G/NP0, 0603	0603	06035A121JAT2A	AVX		
C18	1	0.1uF	CAP. CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	06035C104KAT2A	AVX		
D1	1	100V	DIODE SCHOTTKY 100V 20A TO220AB	TO-220AB	STPS20SM100ST	ST Microelectronics		
D2, D4	2	85V	TVS DIODE 85VWM 137VC SMC	SMC	SMCJ85A	Fairchild Semiconductor		
D3	1	800V	Diode, Switching-Bridge, 800V, 4A, TH	GBU	GBU4K-E3/45	Vishay-Semiconductor		
D5	1	1.7V	Diode, Ultrafast, 1000V, 1A, SMA	SMA	US1M-13-F	Diodes Inc.		
D6, D7	2	1000V	Diode, P-N, 1000V, 1A, TH	DO-41	1N4007	Fairchild Semiconductor		
D8	1	70V	Diode, Switching, 70V, 0.25A, SOT-23	SOT-23	BAV70-V	Vishay-Semiconductor		
D9	1	200V	Diode, Ultrafast, 200V, 1A, SMA	SMA	ES1D-13-F	Diodes Inc.		
D10	1	30V	Diode, Schotky, 30V, 0.2A, SOD-323	SOD-323	BAT54HT1G	ON Semiconductor		
F1	1		FUSE FAST 250VAC 2A RADIAL	TR5 fuse 8.5mm DIA	37012000410	Littelfuse		
HS1	1		BOARD LEVEL HEATSINK .5" TO-220	12.70x50.80x34.92 mm	513002B02500G	Aavid		
HS2	1		Heat Sink, TO-220, TH	TO-220 Heat Sink	576012B00000G	Aavid		
J1	1		HEADER, .312 VERT 3POS	19.7x10.7 x8.5 mm	1-1318301-3	TE Connectivity		
J2	1	2x1	Conn Term Block, 2POS, 5.08mm, TH	PhoenixContact_1715 721	1715721	Phoenix Contact		
L1	1	100uH	INDUCTOR 100UH .9A 8095 RAD	Dia 8x10mm	744772101	Würth Elektronik eiSos		
L2	1	1uH	Inductor, Unshielded Drum Core, Ferrite, 1uH, 8A, 0.006 ohm, TH	D6 x 8.5mm	7447462010	Würth Elektronik eiSos		
L3	1	10mH	Coupled inductor, 10mH, 1A, TH	17.5x22x13 mm	744822110	Würth Elektronik eiSos		
Q1	1	650V	MOSFET N-CH 650V 10.6A TO220	TO-220AB	IPP65R380E6	Infineon Technologies		None
R2	1	2.0k	RES, 2.0 k, 5%, 0.25 W, 1206	1206	CRCW12062K00JNEA	Vishay-Dale		
R3	1	5.11	RES, 5.11 ohm, 1%, 0.25W, 1206	1206	CRCW12065R11FKEA	Vishay-Dale		
R4	1	21.5k	RES, 21.5 k, 1%, 0.1 W, 0603	0603	CRCW060321K5FKEA	Vishay-Dale		
R5, R9	2	100k	RES, 100k ohm, 5%, 0.25W, 1206	1206	CRCW1206100KJNEA	Vishay-Dale		
R6	1	32.4k	RES, 32.4 k, 1%, 0.1 W, 0603	0603	CRCW060332K4FKEA	Vishay-Dale		
R8	1	3.9k	RES, 3.9k ohm, 5%, 0.1W, 0603	0603	CRCW06033K90JNEA	Vishay-Dale		
R10	1	100	RES, 100 ohm, 1%, 0.1W, 0603	0603	CRCW0603100RFKEA	Vishay-Dale		
R11	1	4.7	RES, 4.7 ohm, 5%, 0.25W, 1206	1206	CRCW12064R70JNEA	Vishay-Dale		
R12	1	10	RES, 10 ohm, 5%, 0.1W, 0603	0603	CRCW060310R0JNEA	Vishay-Dale		
R13	1	100k	RES, 100k ohm, 5%, 0.125W, 0805	0805	CRCW0805100KJNEA	Vishay-Dale		
R14	1	1.0k	RES, 1.0k ohm, 5%, 0.1W, 0603	0603	CRCW06031K00JNEA	Vishay-Dale		
R15	1	0.2	RES, 0.2, 1%, 2 W, 2512	2512	CSRN2512FKR200	Stackpole Electronics Inc		
RT1	1	10 ohm	Thermistor NTC, 10 ohm, 20%, Disc 11.5mmx6mm	Disc 11.5mmx6mm	B57236S0100M000	EPCOS Inc		
RT2	1	470k ohm	Thermistor NTC, 470k ohm, 5%, Disc 5.5x5mm	Disc 5.5x5mm	B57164K474J	EPCOS Inc		
T1	1	300 uH	Transformer, 300 uH, TH	TH, 12-Leads, Body 1400x1400mil	RLTI-1122	Renco Electronics		
U1	1		Green-Mode Flyback Controller, D0007A	D0007A	UCC28630D	Texas Instruments		None
C3	0	100pF	CAP. CERM, 100pF, 100V, +/-5%, C0G/NP0, 0603	0603	C1608C0G2A101J	TDK		
C6	0	1000uF	CAP. AL, 1000uF, 16V, +/-20%, TH	CAPPR5-10x16	16ZLJ1000MCE10X16	Rubycon		
R1	0	DNP	RES, 0 ohm, 5%, 0.125W, 0805	0805	CRCW08050000Z0EA	Vishay-Dale		
R7	0	220k	RES, 220k ohm, 1%, 0.1W, 0603	0603	RC0603FR-07220KL	Yageo America		

Notes:

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