

Engineering Bill of Materials



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Project Name:	UCC28911 Dual Output Flyback
Project File:	TIDA-00618_E1.PrjPcb
Base ID:	TIDA-00618
PCB Rev:	E1
Schematic Rev:	E1
Assembly Variant:	001
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Item	Designator	Description	RoHS	Manufacturer	PartNumber	Quantity	Library Name	LibRef	Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Number 2
1	IPC81	Printed Circuit Board	O	Any	TIDA-00618	1	Hardware.IntLib					
2	C1	CAP, AL, 8.2 µF, 400 V, +/- 20%, TH	Y	Nichicon	UV2G8R2MPD	1	Capacitor_Aluminum.IntLib	UV2G8R2MPD	Digi-Key	493-6683-ND	Mouser	647-UV2G8R2MPD
3	C2	CAP, AL, 8.2 µF, 400 V, +/- 20%, TH	Y	Nichicon	UV2G8R2MPD	1	Capacitor_Aluminum.IntLib	UV2G8R2MPD	Digi-Key	493-6683-ND	Mouser	647-UV2G8R2MPD
4	C3	CAP, CERM, 100µF, 500V, +5%, C0G/NP0, 1206	Y	Kemet	C1206C101JGACTU	1	Capacitor_Ceramic.IntLib	C1206C101JGACTU	Digi-Key	399-7073-2-ND	Mouser	80-C1206C101JG
5	C4	CAP, AL, 10µF, 35V, +/-20%, TH	Y	Nichicon	UVR1V100MDD1TA	1	Capacitor_Aluminum.IntLib	UVR1V100MDD1TA	Digi-Key	UVR1V100MDD1TA-ND	Mouser	647-UVR1V100MDD1TA
6	C5	CAP, AL, 1200 µF, 16 V, +/- 20%, 0.019 ohm, TH	Y	Nichicon	UHW1C122MPD	1	Capacitor_Aluminum.IntLib	UHW1C122MPD	Digi-Key	493-6949-ND		
7	C6	CAP, AL, 1200 µF, 16 V, +/- 20%, 0.019 ohm, TH	Y	Nichicon	UHW1C122MPD	1	Capacitor_Aluminum.IntLib	UHW1C122MPD	Digi-Key	493-6949-ND		
8	D1	Diode, Switching-Bridge, 600 V, 1 A, TH	Y	Diodes Inc.	DF06M	1	Diode.IntLib	DF06M	Digi-Key	DF06M-ND	Mouser	621-DF06M
9	D2	Diode, TVS, Uni, 170 V, 600 W, SMB	Y	STMicroelectronics	SMBJ170A-TR	1	ZenerDiodes.IntLib	SMBJ170A-TR	Digi-Key	497-6511-1-ND	Mouser	511-SMBJ170A-TR
10	D3	Diode, Ultrafast, 1000 V, 1 A, SMA	Y	Diodes Inc.	US1M-13-F	1	Diode.IntLib	US1M-13-F	Digi-Key	US1M-FDICT-ND	Mouser	621-US1M-F
11	D4	Diode, Switching, 200V, 0.2A, SOD-123	Y	Diodes Inc.	BAV21W-7-F	1	Diode.IntLib	BAV21W-7-F	Digi-Key	BAV21W-FDICT-ND	Mouser	621-BAV21W-F
12	D5	Diode, Schottky, 40V, 1A, SMA	Y	ON Semiconductor	MBRA140T3G	1	Diode.IntLib	MBRA140T3G	Digi-Key	MBRA140T3GOSCT-ND	Mouser	863-MBRA140T3G
13	D6	Diode, Schottky, 40V, 1A, SMA	Y	ON Semiconductor	MBRA140T3G	1	Diode.IntLib	MBRA140T3G	Digi-Key	MBRA140T3GOSCT-ND	Mouser	863-MBRA140T3G
14	FID1	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	1	MiscParts.IntLib	Fiducial				
15	FID2	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	1	MiscParts.IntLib	Fiducial				
16	FID3	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	1	MiscParts.IntLib	Fiducial				
17	J1	TERMINAL BLOCK 5.08MM VERT 2POS, TH	Y	On-Shore Technology	ED120/2DS	1	Connectors.IntLib	ED120/2DS	Digi-Key	ED1609-ND		
18	J2	TERMINAL BLOCK 5.08MM VERT 3POS, TH	Y	On-Shore Technology	ED120/3DS	1	Connectors.IntLib	ED120/3DS	Digi-Key	ED1610-ND		
19	L1	Inductor, Wirewound, 10µH, 0.9A, 0.1729 ohm, SMD	Y	Taiyo Yuden	CBC3225T100MR	1	Inductor_Other.IntLib	CBC3225T100MR	Digi-Key	587-1625-1-ND	Mouser	963-CBC3225T100MR
20	L2	Inductor, Unshielded Drum Core, Ferrite, 470µH, 0.35A, 1.58 ohm, TH	Y	Würth Elektronik eiSos	7447462471	1	Inductor_Wurth.IntLib	7447462471	Digi-Key	732-2575-ND		
21	R1	RES, 3.3, 5%, 1 W, TH	Y	TT Electronics/IRC	SPP1UL3R30JLF	1	Resistor_TH.IntLib	SPP1UL3R30JLF	Digi-Key	989-1258-1-ND		
22	R2	RES, 6.8k ohm, 5%, 0.25W, 1206	Y	Vishay-Dale	CRCW12066K80JNEA	1	Resistor_1206.IntLib	CRCW12066K80JNEA	Digi-Key	541-6.8KECT-ND	Farnell	1540044
23	R3	RES, 6.8k ohm, 5%, 0.25W, 1206	Y	Vishay-Dale	CRCW12066K80JNEA	1	Resistor_1206.IntLib	CRCW12066K80JNEA	Digi-Key	541-6.8KECT-ND	Farnell	1540044
24	R4	RES, 1.00 k, 1%, 0.25 W, 1206	Y	Vishay-Dale	CRCW12061K00FKEA	1	Resistor_1206.IntLib	CRCW12061K00FKEA	Digi-Key	541-1.00KFCT-ND	Mouser	71-CRCW1206-1.0K-E3
25	R5	RES, 20.0k ohm, 1%, 0.25W, 1206	Y	Vishay-Dale	CRCW120620K0FKEA	1	Resistor_1206.IntLib	CRCW120620K0FKEA	Digi-Key	541-20.0KFCT-ND	Mouser	71-CRCW1206-20K-E3
26	R6	RES, 1.5k ohm, 5%, 0.25W, 1206	Y	Vishay-Dale	CRCW12061K50JNEA	1	Resistor_1206.IntLib	CRCW12061K50JNEA	Digi-Key	59M6939		
27	R7	RES, 100k ohm, 5%, 0.25W, 1206	Y	Vishay-Dale	CRCW1206100KJNEA	1	Resistor_1206.IntLib	CRCW1206100KJNEA	Digi-Key	541-100KECT-ND	Farnell	1534576
28	R8	RES, 33.0 ohm, 1%, 0.25W, 1206	Y	Panasonic	ERJ-8ENF33R0V	1	Resistor_1206.IntLib	ERJ-8ENF33R0V	Digi-Key	P33.0FCT-ND	Mouser	667-ERJ-8ENF33R0V
29	R9	RES, 33 k, 5%, 0.25 W, 1206	Y	Vishay-Dale	CRCW120633K0JNEA	1	Resistor_1206.IntLib	CRCW120633K0JNEA	Digi-Key	541-33KECT-ND	Mouser	71-CRCW1206J-33K-E3
30	R10	RES, 91 k, 5%, 0.25 W, 1206	Y	Vishay-Dale	CRCW120691K0JNEA	1	Resistor_1206.IntLib	CRCW120691K0JNEA	Digi-Key	541-91KECT-ND		
31	R11	RES, 430.0k ohm, 1%, 0.25W, 1206	Y	Yageo America	RC1206FR-07430KL	1	Resistor_1206.IntLib	RC1206FR-07430KL	Digi-Key	311-430KFCT-ND	Mouser	603-RC1206FR-07430KL
32	R12	RES, 6.8k ohm, 5%, 0.25W, 1206	Y	Vishay-Dale	CRCW12066K80JNEA	1	Resistor_1206.IntLib	CRCW12066K80JNEA	Digi-Key	541-6.8KECT-ND	Farnell	1540044
33	R13	RES, 6.8k ohm, 5%, 0.25W, 1206	Y	Vishay-Dale	CRCW12066K80JNEA	1	Resistor_1206.IntLib	CRCW12066K80JNEA	Digi-Key	541-6.8KECT-ND	Farnell	1540044
34	T1	Transformer, 1.5 mH, TH	Y	Würth Elektronik eiSos	750315146	1	Transformers.IntLib	750315146				
35	U1	High Voltage Flyback Switcher with Primary-side Regulation and Constant-Current Control, D0007A	Y	Texas Instruments	UCC28911D	1	Tl_Pre_RTM.IntLib	UCC28911D				
36	C7	CAP, CERM, 680 µF, 566 V, +/- 20%, Z5U, 7x11x7mm	Y	TDK	CD65ZU2GA681MYNKA	0	Capacitor_Ceramic.IntLib	CD65ZU2GA681MYNKA	Digi-Key	445-15839-ND	Mouser	810-CD65ZU2GA681MYNA

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