

## TIDA-010081 AUX REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C100	1	0.47uF	ECW-FD2W474Q1	Panasonic	CAP, Film, 0.47 $\mu$ F, 450 V, +/- 10%, TH	12.6x6.5x12.7mm
C101	1	2200pF	GRM31BR72J222KW01L	MuRata	CAP, CERM, 2200 pF, 630 V, +/- 10%, X7R, 1206	1206
C102	1	47uF	C3216X5R1E476M160AC	TDK	CAP, CERM, 47 $\mu$ F, 25 V, +/- 20%, X5R, 1206	1206
C103	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 10%, X7R, 0603	0603
C104, C106	2	470uF	ELXZ250ELL471MJ16S	Chemi-Con	CAP, AL, 470 $\mu$ F, 25 V, +/- 20%, AEC-Q200 Grade 2, TH	D10xL16mm
C105, C107	2	0.1uF	C0603C104K3RACTU	Kemet	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 10%, X7R, 0603	0603
C108, C111	2	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 5%, X7R, 0603	0603
C109	1	0.1uF	C0603C104J5RACTU	Kemet	CAP, CERM, 0.1 $\mu$ F, 50 V, +/- 5%, X7R, 0603	0603
C110	1	22uF	GRM21BR61A226ME44L	MuRata	CAP, CERM, 22 $\mu$ F, 10 V, +/- 20%, X5R, 0805	0805
C112	1	2.2uF	GRM31CR72A225KA73L	MuRata	CAP, CERM, 2.2 $\mu$ F, 100 V, +/- 10%, X7R, 1206	1206
C113	1	4.7uF	C2012X7R1V475K125AC	TDK	CAP, CERM, 4.7 $\mu$ F, 35 V, +/- 10%, X7R, 0805	0805
D20	1	1000V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000 V, 1 A, SMA	SMA
D21, D22	2	200V	ES2DA-13-F	Diodes Inc.	Diode, Superfast Rectifier, 200 V, 2 A, SMA	SMA
D23, D25	2	18V	MMSZ4705T1G	ON Semiconductor	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
D24	1	50V	CDBU0245	Comchip Technology	Diode, Schottky, 50 V, 0.2 A, SOD-523F	SOD-523F
D26, D27, D28	3	40V	FSV340FP	Fairchild Semiconductor	Diode, Schottky, 40 V, 3 A, AEC-Q101, SOD-123HE	SOD-123HE
D29	1	24V	DFLZ24-7	Diodes Inc.	Diode, Zener, 24 V, 1 W, PowerDI123	PowerDI123
D30	1	75V	CMDD4448	Central Semiconductor	Diode, Ultrafast, 75 V, 0.25 A, SOD-323	SOD-323
J1	1		TSW-114-08-L-S-RA	Samtec	Header, 100 mil, 14x1, Gold, R/A, TH	Header, 100 mil, 14x1, R/A, TH
L10	1	12uH	784773112	Würth Elektronik	Inductor, Wirewound, Ferrite, 12 $\mu$ H, 1.28 A, 0.156 ohm, AEC-Q200 Grade 1, SMD	Inductor, 4.5x3.2x4.0mm, SMD
R100, R101	2	20k	CRCW120620K0JNEA	Vishay-Dale	RES, 20 k, 5%, 0.25 W, 1206	1206
R102	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R103	1	20.0	CRCW120620R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.25 W, 1206	1206
R104	1	51k	CRCW060351K0JNEA	Vishay-Dale	RES, 51 k, 5%, 0.1 W, 0603	0603
R105	1	18.2k	CRCW080518K2FKEA	Vishay-Dale	RES, 18.2 k, 1%, 0.125 W, 0805	0805
R106	1	1.5k	CRCW06031K50JNEA	Vishay-Dale	RES, 1.5 k, 5%, 0.1 W, 0603	0603
R107, R108	2	18k	CRCW060318K0JNEA	Vishay-Dale	RES, 18 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R109	1	243k	CRCW0603243KFKEA	Vishay-Dale	RES, 243 k, 1%, 0.1 W, 0603	0603
R110	1	133k	CRCW0603133KFKEA	Vishay-Dale	RES, 133 k, 1%, 0.1 W, 0603	0603
R111	1	12.1k	CRCW060312K1FKEA	Vishay-Dale	RES, 12.1 k, 1%, 0.1 W, 0603	0603
T2	1	1.6mH	750344399	Würth Elektronik	Custom transformer	EE16
T3	1	100uH	750311307	Würth Elektronik	Custom transformer	EP10
U20	1		UCC28911DR	Texas Instruments	700V Flyback Switcher with Constant-Voltage Constant-Current and Primary-side Regulation, D0007A (SOIC-7)	D0007A
U21	1		TPS560430X3FDBVR	Texas Instruments	4V to 36 V Fixed 3.3 V, 0.6 A Synchronous Step-Down Converter, DBV0006A (SOT-23-6)	DBV0006A
U22	1		LM5180NGUR	Texas Instruments	70-VIN PSR Flyback DC/DC Converter With 100-V, 1.5-A Integrated Power MOSFET, NGU0008C (WSO-8)	NGU0008C