

TIDA-010203-Aux REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C2	1	0.1uF	B32671P6104K	TDK	CAP, Film, 0.1 μ F, 630 V, +/- 10%, TH	13x5x11mm
C3	1	0.01uF	C0805W103KBRAC7800	Kemet	10000pF 630V Ceramic Capacitor X7R 0805	0805
C4, C5	2	560uF	20SEPF560M	Panasonic	CAP, Aluminum Polymer, 560 μ F, 20 V, +/- 20%, 0.012 ohm, TH	D10xL13mm
C6, C24	2	100uF	25YXJ100M5X11	Rubycon	CAP, AL, 100 μ F, 25 V, +/- 20%, TH	CAPPR2-5x11
C11	1	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 μ F, 25 V, +/- 10%, X5R, 0603	0603
C12, C21, C25	3	1uF	C0603C105K3RACTU	Kemet	CAP CER 1UF 25V X7R 0603	0603
C13	1	10uF	GRM188R61E106MA73D	MuRata	CAP, CERM, 10 μ F, 25 V, +/- 20%, X5R, 0603	0603
C14	1	33pF	GRM1885C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C15	1	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603	0603
C16	1	1200pF	C1608C0G1H122J	TDK	CAP, CERM, 1200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C17	1	0.047uF	C1608X7R1H473K	TDK	CAP, CERM, 0.047 μ F, 50 V, +/- 10%, X7R, 0603	0603
C18	1	2200 pF	DE1E3KX222MN4AP01F	Kemet	CAP, CERM, 2.2 nF, 250 V, +/- 20%, Y5V, Cap 9x13mm	Cap 9x13mm
C26	1	2.2uF	GRM219R71C225KE15	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0805	0805
C27	1	1uF	GJ821BR71H105KA12L	MuRata	CAP, CERM, 1 μ F, 50 V, +/- 10%, X7R, 0805	0805
C28	1	330pF	08051C331KAT2A	AVX	CAP, CERM, 330 pF, 100 V, +/- 10%, X7R, 0805	0805
D1	1	160V	SMBJ160A	Fairchild Semiconductor	TVS DIODE 160VWM 259VC SMB	SMB
D2	1	600V	UFM15PL-TP	Micro Commercial Component	Diode, Ultrafast, 600 V, 1 A, SOD-123FL	SOD-123FL
D3	1	100V	PMEG10020AELRX	NXP Semiconductors	DIODE SCHOTTKY 100V 2A SOD2123	SOD-123FL
D4	1	75V	1N4148WT	Fairchild Semiconductor	Diode, Switching, 75 V, 0.3 A, SOD-523F	SOD-523F
D10	1	15V	BZT52C15-7-F	Diodes Inc.	Diode, Zener, 15 V, 370 mW, AEC-Q101, SOD-123	SOD-123
D12	1	60V	PMEG6020AELRX	NXP Semiconductors	DIODE SCHOTTKY 60V 2A SOD-123	SOD-123FL
D13	1	6.2V	MMSZ4691T1G	Diodes Inc.	Diode, Zener, 6.2 V, 370 mW, AEC-Q101, SOD-123	SOD-123
J1	1		PEC03SBAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, R/A, TH	Header, 3x1, RA
J2	1		90122-0763	Molex	Header, 2.54mm, 3x2, Gold, R/A, TH	Header, 2.54mm, 3x2, R/A, TH
J4	1		PEC02SBAN	Sullins Connector Solutions	Header, 2.54 mm, 2x1, Tin, R/A, TH	Header, 2.54 mm, 2x1, R/A, TH
Q1	1	100V	CSD19531Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 16 A, SON 5x6mm	SON 5x6mm
Q2	1	800V	IPU80R600P7	Infineon Technologies	MOSFET, N-CH, 800 V, 2.4 A, IPAK	IPAK
R1	1	47.5	CRCW080547R5FKEA	Vishay-Dale	RES, 47.5, 1%, 0.125 W, 0805	0805
R5	1	1.50	CRCW06031R50FKEA	Vishay-Dale	RES, 1.50, 1%, 0.1 W, 0603	0603
R6	1	36.5k	CRCW060336K5FKEA	Vishay-Dale	RES, 36.5 k, 1%, 0.1 W, 0603	0603
R8	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R12	1	1k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k, 1%, 0.1 W, 0603	0603
R13, R16	2	0.15	ERJ-8BSFR15V	Panasonic	RES, 0.15, 1%, 0.5 W, 1206	1206
R14	1	16k	CRCW060316K0JNEA	Vishay-Dale	RES, 16 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R15	1	22k	CRCW060322K0JNEA	Vishay-Dale	RES, 22 k, 5%, 0.1 W, 0603	0603
R17	1	47.5	CRCW060347R5FKEA	Vishay-Dale	RES, 47.5, 1%, 0.1 W, 0603	0603
R18	1	1.50k	CRCW06031K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.1 W, 0603	0603
R19, R20	2	84.5k	CRCW060384K5FKEA	Vishay-Dale	RES, 84.5 k, 1%, 0.1 W, 0603	0603
R21	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R22	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603
R23	1	44.2k	CRCW060344K2FKEA	Vishay-Dale	RES, 44.2 k, 1%, 0.1 W, 0603	0603
R24	1	47.0	MCU08050C4709FP500	Vishay/Beyschlag	RES, 47.0, 1%, 0.2 W, 0805	0805
R25	1	511k	RC1210FR-07511KL	Yageo	RES, 511 k, 1%, 0.5 W, 1210	1210
T1	1	270uH	750344721	Würth Elektronik	60W Flyback transformer	

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U1	1		UCC24612-1DBVR	Texas Instruments	High Frequency Synchronous Rectifier Controller	SOT-23
U2	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A
U3	1		LTV-817	Lite-On	Optocoupler, 5 kV, 50-600% CTR, TH-4	DIP-4
U4	1		ATL431BQDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A	DBZ0003A