

TIDA-01622 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C#1	1	82uF	400BXW82MEFR18X25	Knowles Capacitors	CAP ALU ELEC 82UF 400V RADIAL	18X25
C#2	2	0.47uF	1812Y5000474KXTWS2	Knowles Capacitors	CAP, CERM, 0.47 μ F, 500 V, +/- 10%, X7R, 1812	1812
C20, C21, C22, C25, C52	5	0.022uF	GRM155R71H223KA12D	MuRata	CAP, CERM, 0.022 μ F, 50 V, +/- 10%, X7R, 0402	0402
C23,C35	2	0.01uF	GCM155R71H103KA55D	MuRata	CAP, CERM, 0.01 μ F, 50 V, +/- 10%, C0G/NP0, 0402	0402
C26	1	12pF	GRM1555C1H120JA01D	MuRata	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C28, C44	3	0.47uF	GRM32DC72A474KE01L	MuRata	CAP, CERM, 0.47 μ F, 100 V, +/- 10%, X7S, 1210	1210
C30	1	4700pF	GRM155R71E472JA88D	MuRata	CAP, CERM, 4700 pF, 25 V, +/- 10%, X7R, 0402	0402
C34	1	2200pF	GRM1885C1H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C36,C53	1	3.3pF	GRM1555C1H3R3CA01D	MuRata	CAP, CERM, 3.3 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C37	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603	0603
C38	1	22pF	GRM1885C1H220JA01D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C42, C43	2	0.22uF	GRM31CR72E224KW03L	MuRata	CAP, CERM, 0.22 μ F, 250 V, +/- 10%, X7R, 1206	1206
C46	1	0.1uF	GRM155R61H104ME14D	MuRata	CAP, CERM, 0.1 μ F, 50 V, +/- 20%, X5R, 0402	0402
C47	1	220pF	GRM1555C1H220JA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C49	1	1uF	C2012X7R1H105K085AC	TDK	CAP, CERM, 1 μ F, 50 V, +/- 10%, X7R, 0805	0805
C50	1	4.7uF	C2012X6S1H475K125AC	TDK	CAP, CERM, 4.7 μ F, 50 V, +/- 10%, X6S, 0805	0805
C51	1	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 μ F, 50 V, +/- 10%, X7R, 0603	0603
C54	1	220pF	GRM1555C1H221JA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
CY1	1	2200pF	GA355QR7GF222KW01	MuRata	CAP CER 2200PF 250VAC X7R 2220	2220
D2	1	600V	KBP06G	Diodes Inc.	Diode, Switching-Bridge, 600 V, 1.5 A, TH	Diode Bridge
D4, D10	2	6.2V	CZRU52C6V2	Comchip Technology	Diode, Zener, 6.2 V, 150 mW, SOD-523F	SOD-523F
D6	1	18V	MMSZ5248B-7-F	Diodes Inc.	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
D7	1	600V	RFU02VSM6S	Comchip Technology	Diode, Superfast Rectifier, 600 V, 0.2A	3.5x1.6mm
D8, D9	2	2V	CZRU52C2	Comchip Technology	Diode, Zener, 2 V, 150 mW, SOD-523F	SOD-523F
D11	1	40V	SDM03U40-7	Diodes Inc.	Diode, Schottky, 40 V, 0.03 A, SOD-523	SOD-523
Dhvg1	1	22V	BZT52C22T-7	Diodes Inc.	Diode, Zener, 22 V, 300 mW, SOD-523	SOD-523
Dz1	1	24V	CDSOD323-T24S	Bourns	Diode, TVS, Uni, 24 V, 49 Vc, SOD-323	SOD-323
D_Aux1, D_Aux2	2	600V	CSFMT108-HF	Comchip Technology	Diode, Superfast Rectifier, 600 V, 1 A, 3.5x1.6mm	3.5x1.6mm
D_Aux3	1	200V	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200 V, 0.2 A, SOD-123	SOD-123
F1	1	3.15A	39213150000	Littelfuse	Fuse, 3.15 A, 250VAC/VDC, TH	8.35x7.7x4mm
L3	1	20mH	744822120	Würth Elektronik	Coupled inductor, 20 mH, 0.5 A, 0.54 ohm, TH	17 x 12 x 20.5mm
Q2	1	160 V	'MMBT5551LT1G	ON Semiconductor	Transistor, NPN, 160 V, 0.6 A, SOT-23	SOT-23
Q5	1	-50V	DMP510DL-7	Diodes Inc.	MOSFET, P-CH, -50 V, -0.18 A, SOT-323	SOT-323
Q6, Q8	1	60V	2N7002KW	Fairchild Semiconductor	MOSFET, N-CH, 60 V, 0.31 A, SOT-323	SOT-323
Q7	1	600V	BSS126 H6906	Infineon Technologies	MOSFET, N-CH, 600 V, 0.021 A, AEC-Q101, SOT-23	SOT-23
QL	1	650V	NV6117	Navitas Semiconductor	650 V AlGaIn Power IC	5 x 6 mm QFN
QH	1	650V	NV6115	Navitas Semiconductor	650 V AlGaIn Power IC	5 x 6 mm QFN
R20, R22	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R44,R45	2	1	CRCW08051R0FKEA	Vishay-Dale	RES, 1, 1%, 0.125 W, 0805	0805
R8	1	100k	RC0603FR-07100KL	Yageo America	RES, 100 k, 1%, 0.1 W, 0603	0603
R21	1	2	CRCW06032RFKEA	Vishay-Dale	RES, 2, 1%, 0.1 W, 0603	0603
R42	1	1.6k	CRCW04021K60JNED	Vishay-Dale	RES, 1.6 k, 5%, 0.063 W, 0402	0402
R18	1	0.18	ERJ8BSFR18V	Panasonic	RES 0.18 OHM 1% 1/2W 1206	1206
R25,R51	1	10.0	MCR01MZPF10R0	Rohm	RES, 10.0, 1%, 0.063 W, 0402	0402
R26	1	27.0k	RC0603FR-0727KL	Yageo America	RES, 27.0 k, 1%, 0.1 W, 0603	0603

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R28	1	562	CRCW0402562RFKED	Vishay-Dale	RES, 562, 1%, 0.063 W, 0402	0402
R29	1	11k	CRCW040211KFKED	Vishay-Dale	RES, 11 k, 1%, 0.063 W, 0402	0402
R30, R41	2	150k	CRCW0402150KFKED	Vishay-Dale	RES, 150 k, 1%, 0.063 W, 0402	0402
R32	1	22.1k	CRCW040222K1FKED	Vishay-Dale	RES, 22.1 k, 1%, 0.063 W, 0402	0402
R33	1	60.4k	CRCW040260K4FKED	Vishay-Dale	RES, 60.4 K, 1%, 0.063 W, 0402	0402
R34	1	34k	CRCW040234KFKED	Vishay-Dale	RES, 34 k, 1%, 0.063 W, 0402	0402
R35	1	121	CRCW0603121RFKEA	Vishay-Dale	RES, 121, 1%, 0.1 W, 0603	0603
R36,R19	1	1.00Meg	RC0402FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.063 W, 0402	0402
R37	1	82.5k	CRCW040282K5FKED	Vishay-Dale	RES, 82.5 k, 1%, 0.063 W, 0402	0402
R38	1	221k	CRCW0402221KFKED	Vishay-Dale	RES, 221 k, 1%, 0.063 W, 0402	0402
Rbur1	1	191k	CRCW0402191KFKED	Vishay-Dale	RES, 191 k, 1%, 0.063 W, 0402	0402
R100	1	10k	CRCW060310KFKEA	Vishay-Dale	RES, 10K, 1%, 0.1 W, 0603	0603
R103	1	10	CRCW060310RFKEA	Vishay-Dale	RES, 10, 1%, 0.1 W, 0603	0603
R101	1	47.5k	CRCW040247K5FKED	Vishay-Dale	RES, 47.5k, 1%, 0.063 W, 0402	0402
R102	1	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, 0402	0402
R#1, R#2	2	1Meg	CRCW08051MFKEA	Vishay-Dale	RES, 1 M, 1%, 0.125 W, 0805	0805
Rbur2	1	56.2k	RT0603BRD0756K2L	Yageo America	RES, 56.2 k, 0.1%, 0.1 W, 0603	0603
RT1	1	47.0k ohm	NCP18WB473F10RB	MuRata	Thermistor NTC, 47.0k ohm, 1%, 0603	0603
Rvs1	1	69.8k	ERJPA3F6982V	Panasonic	RES, 69.8 k, 1%, 0.1 W, 0603	603
Rvs2	1	10k	CRCW040210KFKED	Vishay-Dale	RES, 10 k, 1%, 0.063 W, 0402	0402
U8	1		ISO7710FD	Texas Instruments	Robust EMC, Low Power, Single Channel Digital Isolator, D0008A (SOIC-8)	D0008A
U4	1		UCC28780RTER	Texas Instruments	Active-Clamp Flyback Controller, RTE0016C (WQFN-16)	RTE0016C
U5	1		FODM8801AV	Fairchild Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	8x2x4mm
U7	1		ATL431BQDBZR	Texas Instruments	Low Iq Adjustable Precision Shunt Regulator	DBZ0003A
T1	1		750343793	Würth Elektronik	RM8 Transformer	