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TIDA-01487 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-01487	Any	Printed Circuit Board	
2	C1, C2	2	47pF	GQM2195C1H470JB01D	MuRata	CAP, CERM, 47 pF, 50 V,+/- 5%, C0G/NP0, 0805	0805
3	C3, C4, C5, C6, C7, C8, C9, C10, C13, C18	10	0.1uF	ECPU1C104MA5	Panasonic	CAP, Film, 0.1 µF, 16 V,+/- 20%, 0805 SMD	0805
4	C11	1	100pF	GRM2165C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0805	0805
5	C12	1	47uF	GCM32ER70J476KE19L	MuRata	CAP, CERM, 47 µF, 6.3 V,+/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
6	C14	1	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 µF, 100 V,+/- 10%, X7R, 1210	1210
7	C16	1	0.033uF	GRM188R71H333KA61D	MuRata	CAP, CERM, 0.033 µF, 50 V,+/- 10%, X7R, 0603	0603
8	C17	1	4.7uF	GRM32ER71K475KE14L	MuRata	CAP, CERM, 4.7 µF, 80 V,+/- 10%, X7R, 1210	1210
9	C19, C21	2	1uF	EMK212B7105KG-T	Taiyo Yuden	CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, 0805	0805
10	C20	1	0.01uF	GRM216R71H103KA01D	MuRata	CAP, CERM, 0.01 µF, 50 V,+/- 10%, X7R, 0805	0805
11	D1	1	100V	CD214A-B1100LF	Bourns	Diode, Schottky, 100 V, 1 A, SMA	SMA
12	D2	1	36V	SMAJ36CA	Littelfuse	Diode, TVS, Bi, 36 V, SMA	SMA
13	D3	1	30V	BAT54C-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
14	D4, D5	2	Green	150080GS75000	Wurth Elektronik	LED, Green, SMD	LED_0805
15	J1, J2	2		190-009-263R001	NorComp	CONN DB9 FEMALE R/A SOLDER SMD	30.81x10.28x10.10 mm
16	J3, J4	2		HB3902U	Foxconn	Header, 2.54mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
17	J5	1		1792863	Phoenix Contact	Terminal Block, 5mm, 2x1, R/A, TH	Terminal Block, 5mm, 2x1, R/A, TH
18	L1	1	150uH	7447714151	Wurth Elektronik	Inductor, Shielded Drum Core, Ferrite, 150 µH, 1.2 A, 0.251 ohm, SMD	SMD
19	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
20	R1, R2	2	4.42k	CRCW08054K42FKEA	Vishay-Dale	RES, 4.42 k, 1%, 0.125 W, 0805	0805
21	R3, R4	2	120	CRCW0805120RJNEA	Vishay-Dale	RES, 120, 5%, 0.125 W, 0805	0805
22	R5	1	10.0	ERJ-8ENF10R0V	Panasonic	RES, 10.0, 1%, 0.25 W, 1206	1206
23	R6, R9	2	309k	CRCW0805309KFKEA	Vishay-Dale	RES, 309 k, 1%, 0.125 W, 0805	0805
24	R7	1	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
25	R8	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
26	R10, R11	2	2.7k	CRCW08052K70JNEA	Vishay-Dale	RES, 2.7 k, 5%, 0.125 W, 0805	0805
27	R12	1	10Meg	CRCW080510M0JNEA	Vishay-Dale	RES, 10 M, 5%, 0.125 W, 0805	0805
28	R15	1	0.1	CRM0805-FX-R100ELF	Bourns	RES, 0.1, 1%, 0.25 W, 0805	0805
29	T1	1	475uH	760390014	Wurth Elektronik	Transformer, 475uH, SMT	10.05x4.19x6.73 mm
30	U1	1		SN74LV32APWR	Texas Instruments	Quadruple 2-Input Positive-OR Gates, PW0014A, LARGE T&R	PW0014A
31	U2	1		SN74LVC2G08DCUR	Texas Instruments	Dual 2-Input Positive-AND Gate, DCU0008A, LARGE T&R	DCU0008A
32	U3	1		SN74LVC2G07DBVR	Texas Instruments	Dual Buffer/Driver with Open-Drain Output, DBV0006A, LARGE T&R	DBV0006A
33	U4	1		SN74LVC2G04DBVR	Texas Instruments	Dual Inverter, DBV0006A, LARGE T&R	DBV0006A
34	U5	1		SN74LVC2G132DCTR	Texas Instruments	Dual 2-Input NAND Gate with Schmitt-Trigger Inputs, DCT0008A, LARGE T&R	DCT0008A
35	U6	1		ISO7721DR	Texas Instruments	High Speed, Robust EMC Dual-Channel Digital Isolator, D0008B (SOIC-8)	D0008B
36	U7, U8	2		TCAN1042HDRQ1	Texas Instruments	Automotive Fault Protected CAN Transceiver With Flexible Data-Rate, D0008A (SOIC-8)	D0008A
37	U9	1		LM5166DRCR	Texas Instruments	3V-65V Input, 500mA Synchronous Buck Converter With Ultra-Low Iq, DRC0010J (VSON-10)	DRC0010J
38	U10	1		TVS3300DRVR	Texas Instruments	33V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
39	U11	1		SN6501DBVR	Texas Instruments	Low-Noise 350 mA, 410 kHz Transformer Driver, DBV0005A (SOT-23-5)	DBV0005A
40	U12	1		LP3985IM5X-5.0	Texas Instruments	Micropower, 150mA Low-Noise Ultra Low-Dropout CMOS Voltage Regulator, 5-pin SOT-23	MF05A
41	R13, R14	0	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805

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