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TIDA-01587 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	22uF	C2012JB1V226M125AC	TDK	CAP, CERM, 22 µF, 35 V,+/- 20%, JB, 0805	0805
2	C2, C12	2	4.7uF	GRM188R60J475KE19D	MuRata	CAP, CERM, 4.7 µF, 6.3 V,+/- 10%, X5R, 0603	0603
3	C3, C13, C21, C22	4	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1 µF, 6.3 V,+/- 10%, X7R, 0402	0402
4	C4	1	47uF	C3216X5R1E476M160AC	TDK	CAP, CERM, 47 µF, 25 V,+/- 20%, X5R, 1206	1206
5	C5	1	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 µF, 25 V,+/- 20%, X7R, 0402	0402
6	C6	1	1uF	GRM188R61H105KAALD	MuRata	CAP, CERM, 1 µF, 50 V,+/- 10%, X5R, 0603	0603
7	C7	1	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047 µF, 25 V,+/- 10%, X7R, 0402	0402
8	C8	1	10uF	CL10A106MQ8NNNC	Samsung Electro-Mechanics	CAP, CERM, 10 µF, 6.3 V,+/- 20%, X5R, 0603	0603
9	C9	1	1uF	C1005X5R1E105K050BC	TDK	CAP, CERM, 1 µF, 25 V,+/- 10%, X5R, 0402	0402
10	C10	1	0.1uF	GRM155R60J104KA01D	MuRata	CAP, CERM, 0.1 µF, 6.3 V,+/- 10%, X5R, 0402	0402
11	C11, C16, C20	3	0.01uF	0402ZC103KAT2A	AVX	CAP, CERM, 0.01 µF, 10 V,+/- 10%, X7R, 0402	0402
12	C14	1	2200pF	885012205008	Würth Elektronik	CAP, CERM, 2200 pF, 10 V,+/- 10%, X7R, 0402	0402
13	C15, C18, C19	3	3900pF	C0402C392K4RACTU	Kemet	CAP, CERM, 3900 pF, 16 V,+/- 10%, X7R, 0402	0402
14	C17	1	1uF	GRM155R60J105KE19D	MuRata	CAP, CERM, 1 µF, 6.3 V,+/- 10%, X5R, 0402	0402
15	D1	1	Green	APHHS1005CGCK	Kingbright	LED, Green, SMD	0402
16	D2	1	Red	APHHS1005SURCK	Kingbright	LED, Red, SMD	0402
17	J1, J2, J5	3		GRPB021VWVN-RC	Sullins Connector Solutions	Header, 50mil, 2x1, Gold, TH	2x1 Header
18	J3, J4, J7	3		GRPB031VWVN-RC	Sullins Connector Solutions	Header, 50mil, 3x1, Gold, TH	Header, 3x1, 50mil, TH
19	Q1, Q2, Q3	3	30V	CSD87502Q2	Texas Instruments	MOSFET, 2-CH, N-CH, 30 V, 5 A, DQK0006B (WSO-6)	DQK0006B
20	R1	1	2.0Meg	RC0402JR-072ML	Yageo	RES SMD 2M OHM 5% 1/16W 0402	0402
21	R2, R3	2	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
22	R4	1	619k	CRCW0402619KFKED	Vishay-Dale	RES, 619 k, 1%, 0.063 W, 0402	0402
23	R5, R9, R10, R21, R26	5	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
24	R6, R7, R8	3	0.006	ERJ-6LWFR006V	Panasonic Electronic Compon	RES 0.006 OHM 1% 1/2W 0805	0805
25	R11, R14, R16	3	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, 0402	0402
26	R12, R15, R17, R24, R28, R31	6	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
27	R13	1	47.0k	RC0402FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.0625 W, 0402	0402
28	R32	1	1.00Meg	RC0402FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.063 W, 0402	0402
29	U2	1		DRV8304HRHAR	Texas Instruments	38-V Three-Phase Smart Gate Driver, RHA0040E (VQFN-40)	RHA0040E
30	U3	1		TPS70933DRVR	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input Low-Dropout Regulator with Reverse Current Protection, DRV0006A (WSO-6)	DRV0006A
31	U4	1		MSP430FR5949IRHAR	Texas Instruments	MSP430FR5949 16 MHz Ultra-Low-Power Microcontroller featuring 64 KB FRAM, 2 KB SRAM, 33 IO, RHA0040B (VQFN-40)	RHA0040B
32	U5	1		TVS3300DRVR	Texas Instruments	33V Precision Surge Protection Clamp, DRV0006A (WSO-6)	DRV0006A
33	R18, R22, R25	0	1.00Meg	RC0402FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.063 W, 0402	0402

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