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TIDA-01255 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-01255	Any	Printed Circuit Board	
2	C1, C7, C8, C9, C11	5	10uF	C1608X7S0J106M080AC	TDK	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X7S, 0603	0603
3	C2, C6, C10, C12	4	0.1uF	CL05B104KP5NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7R, 0402	0402
4	C3, C4, C5	3	0.4pF	GRM1555C1HR40BA01D	MuRata	CAP, CERM, 0.4 pF, 50 V, +/- 25%, C0G/NP0, 0402	0402
5	C13	1	4700pF	CGA3E2X7R2A472K080AA	TDK	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
6	C14, C15, C16	3	0.5pF	C0603C508C5GACTU	Kemet	CAP, CERM, 0.5 pF, 50 V, +/- 50%, C0G/NP0, 0603	0603
7	D1, D2	2	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
8	J1	1		1725698	Phoenix Contact	Terminal Block, 6x1, 2.54mm, TH	Terminal Block, 6x1, 2.54mm, TH
9	J2, J3	2		1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
10	L1	1	100uH	ACT45B-101-2P-TL003	TDK	Inductor, Ferrite, 100 µH, 0.15 A, 2 ohm, SMD	SMD, 4-Leads, Body 4.7 x 3.7 mm
11	R1	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
12	R2, R3	2	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
13	R4, R5	2	60.4	ERJ-8ENF60R4V	Panasonic	RES, 60.4, 1%, 0.25 W, 1206	1206
14	T1	1	475uH	760390015	Würth Elektronik	Transformer, 475 uH, SMT	7.14x6.73mm
15	U1	1		SN6501QDBVRQ1	Texas Instruments	Transformer Driver for Isolated Power Supplies, DBV0005A (SOT-5)	DBV0005A
16	U2	1		ISO7731FQDWRQ1	Texas Instruments	High Speed, Robust EMC Reinforced Triple-Channel Digital Isolator, DW0016B (SOIC-16)	DW0016B
17	U3	1		TCAN1042HGVDQ1	Texas Instruments	Automotive Fault Protected CAN Transceiver with CAN FD, D0008A	D0008A
18	U4	1		TPS76350QDBVRQ1	Texas Instruments	Single Output Automotive LDO, 150 mA, Fixed 5 V Output, 2.7 to 10 V Input, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
19	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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