Variant: 001
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TIDA-01543 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-01543	Any	Printed Circuit Board	
2	C1, C3, C8, C9, C11, C12, C13, C14	8	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 µF, 16 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
3	C2, C4	2	10uF	GRM31CR71C106KAC7L	MuRata	CAP, CERM, 10 µF, 16 V,+/- 10%, X7R, 1206	1206
4	C5, C7	2	1uF	GCM188R71C105KA64D	MuRata	CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	C6	1	0.01uF	GRM188R71C103KA01D	MuRata	CAP, CERM, 0.01 µF, 16 V,+/- 10%, X7R, 0603	0603
6	C10	1	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, 0603	0603
7	D1, D2	2	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
8	D3	1	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
9	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
10	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
11	J1	1		90121-0766	Molex	Header, 2.54mm, 6x1, Gold, R/A, TH	Header, 2.54mm, 6x1, R/A, TH
12	J2	1		1725656	Phoenix Contact	Terminal Block, 100mil, 2x1, 6A, 63V, TH	6.2x8.5x5.54 mm
13	J3	1		0022284033	Molex	Header, 2.54mm, 3x1, Tin, TH	Header, 2.54mm, 3x1, TH
14	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
15	R1	1	4.7k	CRCW06034K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.1 W, 0603	0603
16	R2, R3, R5, R6	4	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
17	R4	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
18	T1	1	475uH	760390014	Wurth Elektronik	Transformer, 475uH, SMT	10.05x4.19x6.73 mm
19	TP1, TP3	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
20	TP2	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
21	TP4, TP5, TP6	3		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
22	U1	1		SN6501QDBVRQ1	Texas Instruments	Automotive Low-Noise 350 mA, 410 kHz Transformer Driver, DBV0005A (SOT-23-5)	DBV0005A
23	U2	1		TPS71750QDRVRQ1	Texas Instruments	Low Noise, High-Bandwidth PSRR Low-Dropout 150mA Linear Regulator for Automotive Applications, DRV0006A (WSON-6)	DRV0006A
24	U3	1		AMC1305M05QDWRQ1	Texas Instruments	Automotive Reinforced Isolated Modulator With +/-50mV Input and CMOS Interface, DW0016B (SOIC-16)	DW0016B
25	U4, U5	2		INA301A2QDGKRQ1	Texas Instruments	AEC-Q100, 36V, Low-/High-side, Voltage Output CSA with Comparator, DGK0008A (VSSOP-8)	DGK0008A
26	U6	1		ISO7710QDRQ1	Texas Instruments	Automotive, High Speed, Robust EMC Reinforced Single-Channel Digital Isolator, D0008B (SOIC-8)	D0008B
27	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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