

TIDA-01509 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-01509	Any	Printed Circuit Board	
2	C1, C2, C3, C5, D1, C5, D2, C5, D3, C5, D4, C5, D6, C5, D6, C8, C97A, C8, C98-10, C9, C97-B, C9, C98-10	13	0.1uF	GRM188R71H104K93D	MuRata	CAP, CERAM, 0.1 uF, 50 V +/- 10%, X7R, 0603	603
3	C4	1	2200pF	020541W222KV4E	Johnson Technology	CAP, CERAM, 2200 pF, 2000 V +/- 10%, X7R, 1210	1210
4	C6, D11, C6, D12, C6, D3, C6, D4, C6, D5, C6, D6, C7, D1, C7, D2, C7, D3, C7, D4, C7, D5, C7, D6, C10, C97-B, C10, C98-10, C11, C97-B, C11, C98-10	16	0.01uF	CGA2B307R1H103K050BB	TDK	CAP, CERAM, 0.01 uF, 50 V +/- 10%, X7R, AEC-Q200 Grade 1, 0402	402
5	D1, D3	2	Red	150060RS75000	Wurth Elektronik	LED, Red, SMD	LED_0603
6	D2, D4	2	36V	SM5T36CA	STMicroelectronics	Diode, TVS, Bi, 36 V, 64.3 Vc, SMB	SMB
7	D5, D11, D5, D12, D5, D6, D6, D11, D6, D12, D6, D6, D9, C97-B, D11, C98-10	8		CGA0603MLA-31900E	Bourns	ChipGuard Automotive MLA Series Varistor ESD Clamp Protectors	1.6x0.8mm
8	D7, D11, D7, D12, D7, D3, D7, D4, D7, D5, D7, D6, D8, D11, D8, D12, D8, D3, D8, D4, D8, D5, D8, D6, D10, C97-B, D10, C98-10, D12, C97-B, D12, C98-10	16	Yellow	150060YS75000	Wurth Elektronik	LED, Yellow, SMD	LED_0603
9	FID1, FID2, FID3, FID4, FID5, FID6	6		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
10	J1, J2, J3, J4	4		SSW-110-234F-S	Samtec	Connector, Receptacle, 100mil, 10x1, Gold plated, TH	10x1 Receptacle
11	J5, J8	2		6130101121	Wurth Elektronik	Header, 2.54mm, 10x1, Gold, TH	Header, 2.54mm, 10x1, TH
12	J6, J9	2		691356310010B	Wurth Elektronik	Header, 3.81mm, 5x2, RA, Tin, TH	Header, 3.81mm, 5x2, TH
13	J7, J10	2		22294023	Molex	Header, 2.54mm, 2x1, Tin, TH	Header, 2.54mm, 2x1, 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	Q1, Q2	2		ISOM8610DFG	Texas Instruments	80V, 150mA, 3kVRMS Normally Open Opto-emulator switch with integrated FETs	SOIC4
16	R1, R5	2	100	CRCW0603100RFKFA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	603
17	R2, R3	2	47	CRCW060347R0JNEA	Vishay-Dale	RES, 47, 5%, 0.1 W, 0603	603
18	R4, R6	2	0	CRCW060300002EJA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	603
19	R9, D11, R9, D2, R9, D3, R9, D5, R9, D6, R11, D11, R11, D2, R11, D3, R11, D5, R11, D6, R15, C97-B, R15, C98-10, R18, C97-B, R18, C98-10	14	2.4k	CMB020702G40TGB200	Vishay-Beyerslag	RES, 2.4 k, 2%, 1 W, AEC-Q200 Grade 0, 2.2x3.8mm	2.2x3.8mm
20	R9, D4, R11, D4	2	2.4k	MM960010CA2481FE800	Vishay-Beyerslag	RES, 2.4 k, 1%, 1 W, AEC-Q200 Grade 0, 2.2x5.8mm	2.2x5.8mm
21	R10, D1, R10, D2, R10, D3, R10, D4, R10, D5, R10, D6, R12, D1, R12, D2, R12, D3, R12, D4, R12, D5, R12, D6, R16, C97-B, R16, C98-10, R19, C97-B, R19, C98-10	16	562	CRCW0402562RFKED	Vishay-Dale	RES, 562, 1%, 0.063 W, 0402	402
22	R13, D1, R13, D2, R13, D3, R13, D4, R13, D5, R13, D6, R14, D1, R14, D2, R14, D3, R14, D4, R14, D5, R14, D6, R17, C97-B, R17, C98-10, R20, C97-B, R20, C98-10	16	750	CRCW0603750RFKFA	Vishay-Dale	RES, 750, 1%, 0.1 W, 0603	603
23	U1, U2	2		SN74LV165AD	Texas Instruments	Parallel-Load 8-Bit Shift Registers, 00016A, TUBE	D0016A
24	U3	1			Texas Instruments	Single Inverter Gate, SRV0005A, LARGE TUBE	SRV0005A
25	U4, D3, U4, D4, U4, D5, U4, D3, U4, D4, U4, D5, U7, D4, U7, D5, U7, D6, U4, D4, U8, D5, U8, D6, U10, C98-10, U11, C98-10, U13, C97-B, U14, C97-B	16		TVS3300Y2FR	Texas Instruments	33V Precision Surge Protection Clamp, YZF0004-C01 (DSBGA-4)	YZF0004-C01
26	U5, D1, U5, D2, U5, D3, U5, D4, U5, D5, U5, D6	6		ISO1212DBQR	Texas Instruments	ISO1212DBQR, DBQ00016A, DBQ0016A (SSOP-16)	DBQ0016A
27	U9, C97-B, U9, C98-10, U12, C97-B, U12, C98-10	4		ISO1211DR	Texas Instruments	ISO1211DR, D0008B (SOIC-8)	D0008B
28	D5, D3, D5, D4, D5, D5, D5, D4, D6, D5, D6, D6, D9, C98-10, D11, C97-B	0		CGA0603MLA-31900E	Bourns	ChipGuard Automotive MLA Series Varistor ESD Clamp Protectors	1.6x0.8mm
29	R7, R8	0	100	CRCW0603100RFKFA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	603
30	U4, D11, U4, D2, U4, D6, U4, D11, U6, D2, U6, D6, U7, D11, U7, D2, U7, D3, U8, D11, U8, D2, U8, D3, U10, C97-B, U11, C97-B, U13, C98-10, U14, C98-10	0		TVS3300Y2FR	Texas Instruments	33V Precision Surge Protection Clamp, YZF0004-C01 (DSBGA-4)	YZF0004-C01

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