TIDA-01508 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDA-01508	Any	Printed Circuit Board	
C1, C2, C3, C5_DI1, C5_DI2, C5_DI3, C5_DI4, C5_DI5, C5_DI6, C8_Ch7-8, C8_Ch9-10, C9_Ch7-8, C9_Ch9-10	13	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0603	0603
C4	1	2200pF	202S41W222KV4E	Johanson Technology	CAP, CERM, 2200 pF, 2000 V,+/- 10%, X7R, 1210	1210
C6_DI1, C6_DI2, C6_DI3, C6_DI4, C6_DI5, C6_DI6, C7_DI1, C7_DI2, C7_DI3, C7_DI4, C7_DI5, C7_DI6, C10_Ch7-8, C10_Ch9-10, C11_Ch7-8, C11_Ch9-10	16	0.01uF	CGA2B3X7R1H103K050BB	TDK	CAP, CERM, 0.01 µF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
D1, D3	2	Red	150060RS75000	Wurth Elektronik	LED, Red, SMD	LED_0603
D2, D4	2	36V	SM6T36CA	STMicroelectronics	Diode, TVS, Bi, 36 V, 64.3 Vc, SMB	SMB
D5_DI1, D5_DI2, D5_DI6, D6_DI1, D6_DI2, D6_DI3, D9_Ch7-8, D11_Ch9-10	8		CGA0603MLA-31900E	Bourns	ChipGuard Automotive MLA Series Varistor ESD Clamp Protectors	1.6x0.8mm
D7_DI1, D7_DI2, D7_DI3, D7_DI4, D7_DI5, D7_DI6, D8_DI1, D8_DI2, D8_DI3, D8_DI4, D8_DI5, D8_DI6, D10_Ch7-8, D10_Ch9-10, D12_Ch7-8, D12_Ch9-10	16	Yellow	150060YS75000	Wurth Elektronik	LED, Yellow, SMD	LED_0603
FID1, FID2, FID3, FID4, FID5, FID6	6		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
J1, J2, J3, J4	4		SSW-110-23-F-S	Samtec	Connector, Receptacle, 100mil, 10x1, Gold plated, TH	10x1 Receptacle
J5, J8	2		61301011121	Wurth Elektronik	Header, 2.54mm, 10x1, Gold, TH	Header, 2.54mm, 10x1, TH
J6, J9	2		691356310010B	Wurth Elektronik	Header, 3.81mm, 5x2, R/A, Tin, TH	Header, 3.81mm, 5x2, TH
J7, J10	2		0022284023	Molex	Header, 2.54mm, 2x1, Tin, TH	Header, 2.54mm, 2x1, TH
K1, K2	2		CPC1117N	IXYS	Relay, SPST-NC (1 Form B), 0.15 A, SMD	4.089x3.81mm
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
R1, R5, R7, R8	4	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R2, R3	2	47	CRCW060347R0JNEA	Vishay-Dale	RES, 47, 5%, 0.1 W, 0603	0603
R4, R6	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R10_DI1, R10_DI2, R10_DI3, R10_DI4, R10_DI5, R10_DI6, R12_DI1, R12_DI2, R12_DI3, R12_DI4, R12_DI5, R12_DI6, R16_Ch7-8, R16_Ch9-10, R19_Ch7-8, R19_Ch9-10	16	562	CRCW0402562RFKED	Vishay-Dale	RES, 562, 1%, 0.063 W, 0402	0402
R13_DI1, R13_DI2, R13_DI3, R13_DI4, R13_DI5, R13_DI6, R14_DI1, R14_DI2, R14_DI3, R14_DI4, R14_DI5, R14_DI6, R17_Ch7-8, R17_Ch9-10, R20_Ch7-8, R20_Ch9-10	16	750	CRCW0603750RFKEA	Vishay-Dale	RES, 750, 1%, 0.1 W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
SH-J1, SH-J2	2		60900213421	Wurth Elektronik	Shunt, 2.54mm, Gold, Black	Shunt, 2.54mm, Black
U1, U2	2		SN74LV165AD	Texas Instruments	Parallel-Load 8-Bit Shift Registers, D0016A, TUBE	D0016A
U3	1		SN74LVC1GU04DBVR	Texas Instruments	Single Inverter Gate, DBV0005A, LARGE T&R	DBV0005A
U4_DI3, U4_DI4, U4_DI5, U6_DI3, U6_DI4, U6_DI5, U7_DI4, U7_DI5, U7_DI6, U8_DI4, U8_DI5, U8_DI6, U10_Ch9-10, U11_Ch9-10, U13_Ch7-8, U14_Ch7-8	16		TVS3300YZFR	Texas Instruments	33V Precision Surge Protection Clamp, YZF0004-C01 (DSBGA-4)	YZF0004-C01
U5_DI1, U5_DI2, U5_DI3, U5_DI4, U5_DI5, U5_DI6	6		ISO1212DBQR	Texas Instruments	ISO1212DBQR, DBQ00016A, DBQ0016A (SSOP-16)	DBQ0016A
U9_Ch7-8, U9_Ch9-10, U12_Ch7-8, U12_Ch9-10	4		ISO1211DR	Texas Instruments	ISO1211DR, D0008B (SOIC-8)	D0008B
D5_DI3, D5_DI4, D5_DI5, D6_DI4, D6_DI5, D6_DI6, D9_Ch9-10, D11_Ch7-8	0		CGA0603MLA-31900E	Bourns	ChipGuard Automotive MLA Series Varistor ESD Clamp Protectors	1.6x0.8mm
U4_DI1, U4_DI2, U4_DI6, U6_DI1, U6_DI2, U6_DI6, U7_DI1, U7_DI2, U7_DI3, U8_DI1, U8_DI2, U8_DI3, U10_Ch7-8, U11_Ch7-8, U13_Ch9-10, U14_Ch9-10	0		TVS3300YZFR	Texas Instruments	33V Precision Surge Protection Clamp, YZF0004-C01 (DSBGA-4)	YZF0004-C01

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