

TIDA-01102 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		TIDA-01102	Any	Printed Circuit Board	
2	C1, C2, C3, C4, C6, C7, C8, C9, C11, C12, C13, C14, C16, C17, C18, C19	16	680pF	GRM155R71H681KA01D	MuRata	CAP, CERM, 680 pF, 50 V, +/- 10%, X7R, 0402	0402
3	C5, C10, C15, C20, C60, C62, C71	7	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402	0402
4	C22, C23, C30, C31, C38, C39, C46, C47	8	220pF	GRM155R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0402	0402
5	C54, C67	2	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
6	C61	1	0.47uF	C0603C474K8RACTU	Kemet	CAP, CERM, 0.47 uF, 10 V, +/- 10%, X7R, 0603	0603
7	C63, C64	2	0.22uF	C1005X7R1C224K050BC	TDK	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	0402
8	C65, C66	2	18pF	GRM1555C1H180JA01D	MuRata	CAP, CERM, 18 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
9	C68	1	2.2uF	C0603C225K8PACTU	Kemet	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X5R, 0603	0603
10	C69, C101	2	0.01uF	C1005X7R1C103K050BA	TDK	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402	0402
11	C70, C72, C74	3	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	0603
12	C73, C75	2	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X5R, 0402	0402
13	C78	1	2200pF	C0603X222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
14	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16	16	Yellow	LTST-C170KSKT	Lite-On	LED, Yellow, SMD	0805 LED
15	D17	1	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
16	D18	1	Red	LS L29K-G1J2-1-Z	OSRAM	LED, Red, SMD	SMD, 2-Leads, Body 1.3x0.8mm
17	D19	1	5.6V	MMSZ5232B-7-F	Diodes Inc.	Diode, Zener, 5.6 V, 500 mW, SOD-123	SOD-123
18	FB1	1	1000 ohm	MMZ1608B102CTA00	TDK	Ferrite Bead, 1000 ohm @ 100 MHz, 0.3 A, 0603	0603
19	FID1, FID2, FID3, FID4	4		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
20	J1	1		10118193-0001LF	FCI	Connector, Receptacle, USB Micro B, R/A, SMT	Connector, Receptacle, USB Micro B, R/A, SMT
21	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
22	LS1	1		CPT-9019S-SMT-TR	CUI Inc.	PIEZO BUZZER TRANSDUCER, 4kHz, SMD	9x9mm
23	MG1	1		C10-000	Precision Microdrives Limited	10mm Linear Resonant Actuator - 3mm Type, TH	D10xH3.1mm
24	R60, R61	2	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
25	R66, R67	2	33	CRCW040233R0JNED	Vishay-Dale	RES, 33, 5%, 0.063 W, 0402	0402
26	R68	1	1.0Meg	CRCW04021M00JNED	Vishay-Dale	RES, 1.0 M, 5%, 0.063 W, 0402	0402
27	R69	1	1.5k	CRCW04021K50JNED	Vishay-Dale	RES, 1.5 k, 5%, 0.063 W, 0402	0402
28	R70	1	390	RC0603FR-07390RL	Yageo America	RES, 390, 1%, 0.1 W, 0603	0603
29	R71	1	33k	CRCW040233K0JNED	Vishay-Dale	RES, 33 k, 5%, 0.063 W, 0402	0402
30	R95, R96, R97, R98	4	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
31	R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116	16	330	CRCW0402330RJNED	Vishay-Dale	RES, 330, 5%, 0.063 W, 0402	0402
32	U1, U2, U3, U4	4		TS3A5017RSVR	Texas Instruments	14-Ohm Dual SP4T Analog Switch 3.3-V/2.5-V Analog Multiplexer/Demultiplexer, RSV0016A (UQFN-16)	RSV0016A
33	U6	1		625L3C040M00000	CTS Electrocomponents	OSC, 40 MHz, 3.3 V, SMD	2.5x1x2.5mm
34	U7	1		MSP430F528IRGCT	Texas Instruments	25 MHz Mixed Signal Microcontroller with 128 KB Flash, 8192 B SRAM and 47 GPIOs, -40 to 85 degC, 64-pin QFN (RGC), Green (RoHS & no Sb/Br)	RGC0064B
35	U8	1		LP2985AIM5-3.3/NOPB	Texas Instruments	Micropower 150 mA Low-Noise Ultra Low-Dropout Regulator, 5-pin SOT-23, Pb-Free	MF05A
36	U9	1		TPD4E004DRYR	Texas Instruments	ESD-Protection Array for High-Speed Data Interfaces, 4 Channels, -40 to +85 degC, 6-pin SON (DRY), Green (RoHS & no Sb/Br)	DRY0006A
37	U10	1		DRV2605LDGS	Texas Instruments	Haptic Driver for LRA and ERM With Built-In Library and Smart Loop Architecture, DGS0010A (VSSOP-10)	DGS0010A
38	U11	1		LDC1614RGH	Texas Instruments	Multi-Channel 12/28-Bit Inductance to Digital Converter with I2C, RGH0016A (WQFN-16)	RGH0016A
39	Y1	1		ABM8-24.000MHZ-B2-T	Abrakon Corporation	Crystal, 24.000MHz, 18pF, SMD	3.2x0.8x2.5mm
40	C102	0	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X5R, 0402	0402
41	J2	0		HTSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	Header, 100mil, 3x1, TH
42	J3	0		ZX62R-B-5P	Hirose Electric Co. Ltd.	Connector, Receptacle, Micro-USB Type B, SMT	Connector USB Mini B
43	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16	0				8.2MM 2-layer Coil 3.5uH	
44	TP1, TP2, TP3	0		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature

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