

TIDA-00848 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Alternate Part	Description
!PCB	1		TIDA-00848	Any		Printed Circuit Board
A1	1		ANTENNA_HELICAL	N/A		PCB Antenna. There is nothing to buy or mount.
BT1	1		1010	Keystone		Battery Holder, Nylon, CR2, SMT
C1	1	1200uF	EEUFM1A122	Panasonic	WE 860 080 275 017	CAP, AL, 1200 µF, 10 V, +/- 20%, TH
C11, C22	2	3.6pF	GRM1555C1H3R6CA01D	MuRata		CAP, CERM, 3.6 pF, 50 V, +/- 5%, C0G/NP0, 0402
C12	1	2.7pF	GRM1555C1H2R7CA01D	MuRata		CAP, CERM, 2.7 pF, 50 V, +/- 5%, C0G/NP0, 0402
C13	1	6.2pF	GRM1555C1H6R2CA01D	MuRata		CAP, CERM, 6.2 pF, 50 V, +/- 5%, C0G/NP0, 0402
C14	1	3.3pF	GRM1555C1H3R3CA01D	MuRata	WE 885012005052	CAP, CERM, 3.3 pF, 50 V, +/- 5%, C0G/NP0, 0402
C15, C21	2	100pF	GRM1555C1H101JA01D	MuRata	WE 885012005061	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402
C16	1	1pF	GRM1555C1H1R0CA01D	MuRata	WE 885012005049	CAP, CERM, 1 pF, 50 V, +/- 5%, C0G/NP0, 0402
C61, C62, C461, C471	4	12pF	GRM1555C1H120JA01D	MuRata		CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0402
C131, C221, C351, C441, C451, C481, C482	7	0.1uF	GRM155R70J104KA01D	MuRata	WE 885012205037	CAP, CERM, 0.1 µF, 6.3 V, +/- 10%, X7R, 0402
C231	1	1uF	GRM155R61A105KE15D	MuRata	WE 885012105012	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402
C331, C341	2	22uF	GRM188R60J226MEA0J	MuRata		CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0603
C342, C343	2	0.1uF	GRM155R61E104KA87D	MuRata	WE 885012205037	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0402
FID1, FID2	2		N/A	N/A		Fiducial mark. There is nothing to buy or mount.
H9, H10, H11, H12	4		SJ-5303 (CLEAR)	3M		Bumpon, Hemisphere, 0.44 X 0.20, Clear
J1	1		TSM-103-01-L-SV	Samtec	WE 610 010 182 21	Header, 100mil, 3x1, Gold, SMT
J2, J3, J20, J21, J22	5		TSW-103-07-G-S	Samtec	WE 613 003 111 21	Header, TH, 100mil, 3x1, Gold plated, 230 mil above insulator

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J4	1		BB02-BS101-KA8-025B00	GradConn	WE 621 310 210 21	Header, 1.27mm, 5x2, SMT
J6	1		901-144-8RFX	Amphenol RF		SMA Straight Jack, Gold, 50 Ohm, TH
J9, J11	2		850-10-003-10-001000	Mill-Max		Header, 50mil, 3x1, Gold, TH
J12, J13	2		HW-02-15-T-S-340-SM	Samtec	WE 610 010 182 21	Header, 100mil, 2x1, Gold, SMD
L11	1	18nH	LQW15AN18NJ00D	MuRata	WE 744765118A	Inductor, Wirewound, 18 nH, 0.37 A, 0.27 ohm, SMD
L12, L21	2	7.5nH	LQW15AN7N5G00D	MuRata	WE 744765075A	Inductor, Wirewound, 7.5 nH, 0.57 A, 0.13 ohm, SMD
L13, L14	2	6.8nH	LQW15AN6N8G00D	MuRata	WE 744765068A	Inductor, Wirewound, 6.8 nH, 0.7 A, 0.09 ohm, SMD
L15	1	12nH	LQW15AN12NJ00D	MuRata	WE 744765112A	Inductor, Wirewound, 12 nH, 0.5 A, 0.14 ohm, SMD
L331	1	6.8uH	MLZ2012N6R8LT000	TDK	WE 74479777268	Inductor, Multilayer, Ferrite, 6.8 µH, 0.11 A, 0.25 ohm, SMD
LCD1	1		BTL002			BTL002 4COM LCD
R1, R2, R3, R4, R7, R8, R9, R10, R13, R14, R15, R16, R17, R19, R20, R21, R22, R25, R26, R27	20	10Meg	CRCW040210M0JNED	Vishay-Dale		RES, 10 M, 5%, 0.063 W, 0402
R11, R12, R24	3	0	CRCW04020000Z0ED	Vishay-Dale		RES, 0, 5%, 0.063 W, 0402
R28	1	33.2k	CRCW040233K2FKED	Vishay-Dale		RES, 33.2 k, 1%, 0.063 W, 0402
R29	1	66.5k	CRCW040266K5FKED	Vishay-Dale		RES, 66.5 k, 1%, 0.063 W, 0402
R30, R32, R34, R36	4	100k	CRCW0402100KFKED	Vishay-Dale		RES, 100 k, 1%, 0.063 W, 0402
R31, R33, R35, R37	4	200k	CRCW0402200KFKED	Vishay-Dale		RES, 200 k, 1%, 0.063 W, 0402
R351	1	100k	ERJ-2RKF1003X	Panasonic		RES, 100 k, 1%, 0.1 W, 0402
U5	1		CC1310F128RGZR	Texas Instruments		Sub-1 GHz and 2.4 GHz Multi-standard RF IC Family, RGZ0048A
Y1	1		FC-135 32.7680KA-A3	Epson		Crystal, 32.768 KHz, 12.5 pF, SMD

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Y2	1		TSX-3225 24.0000MF20G-AC3	Epson		Crystal, 24 MHz, 9 pF, SMD
C41	0	0.1uF	GRM155R61E104KA87D	MuRata	WE 885012205037	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0402
R18	0	10Meg	CRCW040210M0JNED	Vishay-Dale		RES, 10 M, 5%, 0.063 W, 0402
U2	0		SN74AHC1G04DBV	Texas Instruments		SINGLE SCHMITT-TRIGGER INVERTER GATE, DBV0005A

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