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TID #: TIDA-01236



TIDA-01236 REV E1 Bill of Materials

Item#	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1	value	TIDA-01236	Any	Printed Circuit Board	i achagenererere
2	BT1	1		3039	Keystone	Battery Holder, TH	25.4x22.61mm
3	C1, C2, C4, C5	4	4.7uF	C2012X7R1V475K125AC	TDK	CAP, CERM, 4.7 µF, 35 V, +/- 10%, X7R, 0805	0805
4	C3, C6, C8	3	1uF	C1005X5R1A105K050BB	TDK	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402	0402
5	C7, C9	2	0.1uF	885012105016	Wurth Elektronik	CAP, CERM, 0.1 µF, 16 V, +/- 20%, X5R, 0402	0402
6	C10	1	33pF	C1005C0G1H330J050BA	TDK	CAP, CERM, 33 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
7	C11, C23	2	22uF	GRM188R60J226MEA0J	MuRata	CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0603	0603
8	C12, C13, C14,	10	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1 µF, 6.3 V, +/- 10%, X7R, 0402	0402
	C15, C16, C17, C18, C19, C22, C38					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
9	C20, C21, C34	3	1uF	GRM155R70J105MA12D	MuRata	CAP, CERM, 1 µF, 6.3 V, +/- 20%, X7R, 0402	0402
10	C24, C33	2	3.6pF	GRM1555C1H3R6CA01D	MuRata	CAP, CERM, 3.6 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
11	C25, C36, C37	3	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
12	C28, C29	2	18pF	GRM1555C1H180JA01D	MuRata	CAP, CERM, 18 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
13	C30	1	2.7pF	GRM1555C1H2R7CA01D	MuRata	CAP, CERM, 2.7 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
14	C31	1	6.2pF	GRM1555C1H6R2CA01D	MuRata	CAP, CERM, 6.2 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
15	C32	1	3pF	GRM1555C1H3R0CA01D	MuRata	CAP, CERM, 3 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
16	C35	1	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402	0402
17	E1	1		ANTENNA_HELICAL	N/A	PCB Antenna. There is nothing to buy or mount.	Antenna
18	H1, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
19	J1	1		TMM-107-01-G-D	Samtec	Header, 2mm, 7x2, Gold, TH	Header, 7x2, 2mm, TH
20	J2	1		GRPB052VWVN-RC	Sullins Connector Solutions	Header, 50mil, 5x2, Gold, TH	Header, 5x2, 50mil
21	L1	1	4.7uH	EPL3015-472MLB	Coilcraft	Inductor, Shielded, Ferrite, 4.7 µH, 1.2 A, 0.14 ohm, SMD	Inductor, 3x1.55x3mm
22	L2	1	1500 ohm	BLM18HE152SN1D	MuRata	Ferrite Bead, 1500 ohm @ 100 MHz, 0.5 A, 0603	0603
23	L3, L4, L5, L6, L7, L8	6	1000 ohm	BLM15HG102SN1D	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 0.25 A, 0402	0402
24	L10	1	6.8uH	VLF252015MT-6R8M	TDK	Inductor, Shielded, Ferrite, 6.8 µH, 0.57 A, 0.16 ohm, SMD	2.5x1.5x2.0
25	L11. L16	2	7.5nH	LQG15HS7N5J02D	MuRata	Inductor, Multilayer, Air Core, 7.5 nH, 0.3 A, 0.24 ohm, SMD	0402 polarized
26	L12, L13	2	6.8nH	LQG15HS6N8J02D	MuRata	Inductor, Multilayer, Air Core, 6.8 nH, 0.3 A, 0.24 ohm, SMD	0402 polarized
27	L14	1	27nH	LQG15HS27NJ02D	MuRata	Inductor, Multilayer, Air Core, 27 nH, 0.3 A, 0.46 ohm, SMD	0402 polarized
28	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"H x 0.200"W
29	LS1	1		CPE-253	CUI Inc.	PIEZO BUZZER INDICATOR, TH	D28xL25.9mm
30	MK1	1		SPH0641LU4H-1	Knowles Accoustics	Microphone, ULTRASONIC, MIC MEMS DIGITAL, SMT	3.5x2.65mm
31	Q1	1	12V	CSD13201W10	Texas Instruments	MOSFET, N-CH, 12 V, 1.6 A, 1x0.62x1mm	1x0.62x1mm
32	R1	1	1.96Meg	CRCW04021M96FKED	Vishay-Dale	RES, 1.96 M, 1%, 0.063 W, 0402	0402
33	R2, R6, R7	3	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
34	R3	1	249k	CRCW0402249KFKED	Vishay-Dale	RES, 249 k, 1%, 0.063 W, 0402	0402
35	R4	1	1.00	CRCW04021R00FKED	Vishay-Dale	RES, 1.00, 1%, 0.063 W, 0402	0402
36	R5, R9	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
37	R8	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
38	U1	1		TPS61070DDCR	Texas Instruments	90% Efficient Synchronous Boost Converter with 600-mA Switch, DDC0006A	DDC0006A
39	U2	1		BQ35100PWR	Texas Instruments	Single Lithium Primary State-of-Health and End-of-Service Monitor, PW0014A	PW0014A
40	U3	1		CC1310F128RGZR	Texas Instruments	Sub-1 GHz and 2.4 GHz Multi-standard RF IC Family, RGZ0048A	RGZ0048A
41	U4	1		TLV320AIC3256IRSBR	Texas Instruments	Ultra Low Power Stereo Audio Codec With Embedded miniDSP, RSB0040B	RSB0040B
42	U5	1		TPS73118DBVR	Texas Instruments	Single Output Fast Transient Response LDO, 150 mA, Fixed 1.8 V Output, 1.7 to 5.5 V Input, 5-pin SOT-23 (DBV), -40 to 85 degC, Green (RoHS & no Sb/Br)	DBV0005A
43	Y1	1		FC-135 32.7680KA-A3	Epson	Crystal, 32.768 KHz, 12.5 pF, SMD	SMD, 2-Leads, Body 3.2x1.5mm
44	Y2	1		TSX-3225 24.0000MF20G-AC3	Epson	Crystal, 24 MHz, 9 pF, SMD	SMD, 4-Leads, Body 2.65x3.35mm, Height 0.6mm
45	C26, C27	0	12pF	GRM1555C1H120JA01D	MuRata	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
46	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
47	L15	0	3.3nH	ELJPF3N3DFB	Panasonic	Inductor, Ceramic, 3.3 nH, 1500 A, 0.07 ohm, SMD	0402

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