TEXAS INSTRUMENTS

TIDA-01067 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-01067	Any	Printed Circuit Board	
2	BT1, BT2	2		2462	Keystone	2x AA Battery Holder, Through-hole mount	TH, 2x AA Battery Holder
3	C1, C2, C6	3	10uF	EMK212BB7106MG-T	Taiyo Yuden	CAP, CERM, 10 µF, 16 V, +/- 20%, X7R, 0805	0805
4	C3	1	100uF	C3216X5R1A107M160AC	TDK	CAP, CERM, 100 µF, 10 V, +/- 20%, X5R, 1206_190	1206_190
5	C5	1	0.01uF	C1005X7R1C103K050BA	TDK	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0402	0402
6	C7, C9, C10, C12, C13, C15, C17, C18	8	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7R, 0402	0402
7	C8	1	2.2uF	C0603C225K9PACTU	Kemet	CAP, CERM, 2.2 µF, 6.3 V, +/- 10%, X5R, 0603	0603
8	C14, C16	2	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, 0805	0805
9	C20, C21, C22	3	2200pF	C1005X7R1H222K	TDK	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0402	0402
10	C25, C29, C30	3	12pF	GRM1555C1H120JA01D	MuRata	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
11	C26, C27	2	1.2pF	GRM1555C1H1R2CA01D	MuRata	CAP, CERM, 1.2 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
12	C31	1	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402	0402
13	E1	1		ANTENNA_IIFA	N/A	PCB Antenna. There is nothing to buy or mount.	PCB Antenna, 2-Leads
14	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
15	H5, H6, H7, H8	4		1902E	Keystone	Standoff, Hex, 1"L #4-40 Nylon	Standoff
16	J1	1		61300211121	Wurth Elektronik eiSos	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
17	J2	1		OSTTE020161	On-Shore Technology	Terminal Block, 2x1, 3.5mm, TH	2x1 Terminal Block
18	J3	1		GRPB052VWVN-RC	Sullins Connector Solutions	Header, 50mil, 5x2, Gold, TH	Header, 5x2, 50mil
19	L1	1	4.7uH	CBC3225T4R7MR	Taiyo Yuden	Inductor, Wirewound, 4.7 µH, 1.01 A, 0.1 ohm, SMD	3.2x2.5x2.5mm
20	L2	1	10uH	CKS2125100M-T	Taiyo Yuden	Inductor, Multilayer, Ferrite, 10 µH, 0.11 A, 0.52 ohm, SMD	0805
21	L3	1	1500 ohm	BLM18HE152SN1D	MuRata	Ferrite Bead, 1500 ohm @ 100 MHz, 0.5 A, 0603	0603
22	L4	1	15nH	LQG15HS15NJ02D	MuRata	Inductor, Multilayer, Air Core, 15 nH, 0.3 A, 0.32 ohm, SMD	0402 polarized
23	L5	1	2nH	LQG15HS2N0S02D	MuRata	Inductor, Multilayer, Air Core, 2 nH, 0.3 A, 0.1 ohm, SMD	0402 polarized
24	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
25	Q1	1	-20V	CSD25310Q2	Texas Instruments	MOSFET, P-CH, -20 V, -20 A, SON 2x2mm	SON 2x2mm
26	Q2	1	-12V	CSD23285F5	Texas Instruments	MOSFET, P-CH, -12 V, -3.3 A, YJK0003A (PICOSTAR-3)	YJK0003A
27	R1	1	38.3k	RC0603FR-0738K3L	Yageo America	RES, 38.3 k, 1%, 0.1 W, 0603	0603
28	R2	1	30.0k	ERJ-3EKF3002V	Panasonic	RES, 30.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R3	1		EVW-AE4001B14	Panasonic	10 mm GS Sensor, SMD	10.6x12.65mm
30	R4	1	0.1	CSR1206FKR100	Stackpole Electronics Inc	RES, 0.1, 1%, 0.5 W, 1206	1206
31	R5	1	1.00k	ERJ-3EKF1001V	Panasonic	RES, 1.00 k, 1%, 0.1 W, 0603	0603
32	R6, R7, R8	3	47.5k	CRCW040247K5FKED	Vishay-Dale	RES, 47.5 k, 1%, 0.063 W, 0402	0402
33	R9, R10, R11	3	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
34	R14	1	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
35	S1, S2, S3	3		4-1437565-1	TE Connectivity	Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	SW, SPST 6x6 mm
36	SH-J1	1	1x2	969102-0000-DA	3M	Shunt, 100mil, Gold plated, Black	Shunt
37	U1	1		TPS62745DSSR	Texas Instruments	Dual-cell Ultra Low IQ Step Down Converter for Low Power Wireless Applications, DSS0012A	DSS0012A
38	U3	1		DRV8833PWPR	Texas Instruments	Dual H-Bridge Motor Driver, PWP0016C	PWP0016C
39	U4	1		HDC1010YPAR	Texas Instruments	Low Power, High Accuracy Digital Humidity Sensor with Temperature Sensor, YPA0008AGAE (DSBGA-8)	YPA0008AGAE
40	U5	1		BMP280	Bosch Solar Energy	Digital Pressure Sensor, LGA8-2X2_5MM_0_65	2x2.5mm LGA-8
41	U6, U7, U8	3		TPD1E10B06DPYR	Texas Instruments	ESD in 0402 Package with 10 pF Capacitance and 6 V Breakdown, 1 Channel, -40 to +125 degC, 2-pin X2SON (DPY), Green (RoHS & no Sb/Br)	DPY0002A
42	U9	1		CC2650F128RHBR	Texas Instruments	Ultra low-power ARM Cortex M3 2.4 GHz Radio MCU, Multi-Protocol, RSHB032E (VQFN-32)	RHB0032E
43	Y1	1		TSX-3225 24.0000MF20G-AC3	Epson	Crystal, 24 MHz, 9 pF, SMD	SMD, 4-Leads, Body 2.65x3.35mm, Height 0.6mm
44	Y2	1		FC-12M 32.7680KA-A3	Epson	Crystal, 32.768kHz, 12.5pF, SMD	Crystal 2.05x.6x1.2mm
45	C4	0	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7R, 0402	0402
46	C11	0	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
47	C19	0	0.1uF	885012205037	Wurth Elektronik	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
48	C23, C24	0	12pF	GRM1555C1H120JA01D	MuRata	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
49	C28	0	1.2pF	GRM1555C1H1R2CA01D	MuRata	CAP, CERM, 1.2 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
50	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
51	J4	0		CONSMA001-SMD-G	Linx Technologies	Jack, SMA, PCB, Gold, SMT	SMA Jack
52	R12	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
53	R13	0	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
54	U2	0		HDC1080DMBR	Texas Instruments	HDC1080 Low Power, High Accuracy Digital Humidity Sensor with Temperature Sensor, DMB0006A (WSON-6)	DMB0006A

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