TEXAS INSTRUMENTS

TIDA-01572 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-01572	Any	Printed Circuit Board	
2	C1, C2, C5, C6, C8, C9, C10, C11, C18, C19, C20, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C40, C43, C44, C45, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C78, C90, C91, C92, C93, C94, C95, C96, C104	55	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0402	0402
3	C3	1	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 µF, 10 V, +/- 10%, X7R, 0603	0603
4	C4	1	470pF	GRM1555C1E471JA01D	MuRata	CAP, CERM, 470 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
5	C7, C17, C46, C75, C79, C88, C89, C101, C103	9	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 µF, 10 V, +/- 10%, X7R, 0603	0603
6	C12, C16, C39, C41, C62, C63, C64, C69, C80, C81, C84, C87, C99, C100, C102	15	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 µF, 25 V, +/- 20%, X7R, 0402	0402
7	C13, C14, C82, C83	4	22uF	TCJB226M020R0090	AVX	CAP, Tantalum Polymer, 22 µF, 20 V, +/- 20%, 0.09 ohm, 3528-21 SMD	3528-21
8	C15, C21	2	2.2uF	C1608X7R1A225K080AC	TDK	CAP, CERM, 2.2 µF, 10 V,+/- 10%, X7R, 0603	0603
9	C42, C61, C65, C74	4	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
10	C66	1	10uF	GMK316AB7106KL	Taiyo Yuden	CAP, CERM, 10 µF, 35 V, +/- 10%, X7R, 1206	1206
11	C67	1	47uF	EEE-FK1J470P	Panasonic	CAP, AL, 47 µF, 63 V, +/- 20%, 0.65 ohm, AEC-Q200 Grade 2, SMD	SMT Radial F
12	C68	1	1uF	GRM21BR71H109KA12L	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0805	0805
13	C70	1	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
14	C71	1	47uF	EEU-FC1C470	Panasonic	CAP, AL, 47 µF, 16 V, +/- 20%, 0.8 ohm, AEC-Q200 Grade 2, TH	D6xL11mm
15	C72, C73	2	22uF	GRM21BZ71A226ME15L	MuRata	CAP, CERM, 22 µF, 10 V, +/- 20%, X7R, 0805	0805
16	C76	1	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
17	C77	1	0.01uF	GRM155R70J103KA01D	MuRata	CAP, CERM, 0.01 uF, 6.3 V, +/- 10%, X7R, 0402	0402
18	C105, C106	2	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V,+/- 10%, X5R, 0603	0603
19	D1	1	Green	LTST-C171GKT	Lite-On	LED, Green, SMD	LED_0805
20	D2	1	Blue	SMLP12BC7TT86	Rohm	LED, Blue, SMD	Blue LED
21	D3	1	Blue	LTST-C170TBKT	Lite-On	LED, Blue, SMD	LED_0805
22	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
23	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
24	J1	1		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
25	J2, J3, J4, J6, J12, J14, J15, J18, J20, J21, J22, J26	12		PBC02SAAN	Sullins Connector Solutions	Header, 100mil 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
26	J5	1		SSQ-108-02-G-D-RA	Samtec	Receptacle, 100mil, 8x2, Gold, R/A, TH	SSQ-108-02-G-D-RA
27	J7	1		TSW-108-08-G-D-RA	Samtec	Header, 100mil, 8x2, Gold, R/A, TH	8x2 R/A Header
28	J8, J25	2		PEC02DAAN	Sullins Connector Solutions	Header, 100mil, 2x2, Tin, TH	Header, 2x2, 2.54mm, TH
29	J9	1		0395443002	Molex	Terminal Block, 5.08mm, 2x1, TH	Terminal Block, 5.08mm, 2x1, TH
30	J10, J29	2		691 101 710 002	Wurth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
31	J11, J27	2		PBC03DAAN	Sullins Connector Solutions	Header, 100mil, 3x2, Gold, TH	Sullins 100mil, 2x3, 230 mil above insulator
32	J13, J31	2		804-10-015-10-002000	Milli-Max	Header, 2.54mm, 5x0, Gold, TH	Header, 2.54mm, 5x0, TH
33	J16	1		DX4R205JJAR1800	JAE Electronics	Connector, Receptacle, Micro-USB Type AB, R/A, Bottom Mount SMT	Connector, USB Micro AB
34	J17	1		LPPB061NGCN-RC	Sullins Connector Solutions	Receptacle, 50mil, 6x1, Gold, R/A, TH	6x1 Receptacle
35	J19	1		RAPC712X	Switchcraft	Power Jack, mini, 2.5mm OD, R/A, TH	Jack, 14.5x11x9mm
36	J23, J28	2		7006	Keystone	Binding Post, RED, TH	11.4x27.2mm
37	J24, J30	2		7007	Keystone	Binding Post, BLACK, TH	11.4x27.2mm
38	L1	1	300 ohm	NFZ2MSM301SN10L	MuRata	Ferrite Bead, 300 ohm @ 100 MHz, 3.1 A, 0806	0806
39	L2	1	600 ohm	MPZ2012S601A	TDK	Ferrite Bead, 600 ohm @ 100MHz, 2A, 0805	0805
40	L3	1	470nH	VLS2012ET-R47N	TDK	Inductor, Shielded Drum Core, Ferrite, 470 nH, 2 A, 0.059 ohm, SMD	Inductor, 2x1.2x2mm
41	R1, R2, R3, R38, R39, R40	6	33.0	ERJ-2RKF33R0X	Panasonic	RES, 33.0, 1%, 0.1 W, 0402	0402
42	R4, R5, R9, R11, R15, R35, R37, R41, R43, R44, R45, R46, R52, R53, R59, R61, R62, R64, R65	19	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
43	R6	1	680	RC0603FR-07680RL	Yageo America	RES, 680, 1%, 0.1 W, 0603	0603
44	R7, R32, R33, R54, R55, R56, R57, R58	8	33.2	RC0201FR-0733R2L	Yageo America	RES, 33.2, 1%, 0.05 W, 0201	0201
45	R8, R25, R26, R27	4	10.0k	RC0201FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.05 W, 0201	0201
46	R10	1	162k	RC0603FR-07162KL	Yageo America	RES, 162 k, 1%, 0.1 W, 0603	0603
47	R12, R66	2	470	ERJ-2RKF4700X	Panasonic	RES, 470, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
48	R13, R17, R18, R36, R67	5	2.20k	RC0402FR-072K2L	Yageo America	RES, 2.20 k, 1%, 0.063 W, 0402	0402
49	R14, R19, R20, R21, R22, R34, R68	7	47.0k	RC0402FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.0625 W, 0402	0402
50	R16	1	1.00k	RC0402FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.0625 W, 0402	0402
51	R23	1	4.75	RC0603FR-074R75L	Yageo America	RES, 4.75, 1%, 0.1 W, 0603	0603
52	R24	1	25.5k	RC0201FR-0725KSL	Yageo America	RES, 25.5 k, 1%, 0.05 W, 0201	0201
53	R28	1	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
54	R29	1	43.2	RC0603FR-0743R2L	Yageo America	RES, 43.2, 1%, 0.1 W, 0603	0603
55	R30	1	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
56	R31	1	51.0k	RC0201FR-0751KL	Yageo America	RES, 51.0 k, 1%, 0.05 W, 0201	0201
57	R42, R47	2	499	ERA-2AEB4990X	Panasonic	RES, 499, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
58	R48	1	40.2k	ERJ-2RKF4022X	Panasonic	RES, 40.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
59	R49	1	1.00Meg	RC0402FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.063 W, 0402	0402
60	R50, R51, R60, R63	4	0	RC0805JR-070RL	Yageo America	RES, 0, 5%, 0.125 W, 0805	0805
61	SH1, SH2, SH3, SH4, SH5, SH6, SH7, SH8, SH9, SH10, SH11, SH12, SH13, SH14, SH15, SH16	16	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black	Shunt
62	TP1, TP2, TP5, TP6, TP7, TP8, TP9, TP10, TP16, TP17, TP25, TP28, TP38, TP41, TP42, TP43, TP44, TP45, TP46, TP47	20	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
63	TP3, TP4, TP11, TP14, TP15, TP18, TP19, TP24, TP31, TP32, TP37	11		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
64	TP12, TP13, TP20, TP21, TP22, TP23, TP29, TP30, TP33, TP34, TP35, TP36	12		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
65	U1, U22	2		TAS2770RJQR	Texas Instruments	15-W Digital Input Mono Class-D Audio Amplifier with Speaker I-V Sense, RJQ0026A (VQFN-HR-26)	RJQ0026A
66	U2, U20, U21, U23, U24, U25	6		SN74LVC2G66YZPR	Texas Instruments	Dual Bilateral Analog Switch, YZP0008ADAD (DSBGA-8)	YZP0008ADAD
67	U3, U11	2		SN74AVC4T774RSVR	Texas Instruments	4-BIT DUAL-SUPPLY BUS TRANSCEIVER WITH CONFIGURABLE VOLTAGE TRANSLATION AND 3-STATE OUTPUTS, RSV0016A (UQFN-16)	RSV0016A
68	U4, U15	2		TCA9406DCUR	Texas Instruments	TCA9406 Dual Bidirectional 1-MHz I2C-BUS and SMBus Voltage Level-Translator, 1.65 to 3.6 V, -40 to 85 degC, 8-pin US8 (DCU), Green (RoHS & no Sb/Br)	DCU0008A
69	U5	1		XEF216-512-TQ128-C20	XMOS semiconductor	IC MCU 512KB RAM, 128TQFP	TQFP-128
70	U6	1		SN74AVC2T244DQMR	Texas Instruments	Dual-Bit Dual-Supply Bus Transceiver, DQM0008A (X2SON-8)	DQM0008A
71	U7	1		TPS3897ADRYR	Texas Instruments	Single-Channel, Adjustable Supervisory Circuit in Ultra-Small Package, DRY0006A (USON-6)	DRY0006A
72	U8	1		SN74AVC2T244DQMR	Texas Instruments	2-BIT UNIDIRECTIONAL VOLTAGE-LEVEL TRANSLATOR, DQM0008A (X2SON-8)	DQM0008A
73	U9	1		SN74LVC2G07DSFR	Texas Instruments	DUAL BUFFER/DRIVER WITH OPEN DRAIN OUTPUTS, DSF0006A	DSF0006A
74	U10	1		TPS62085RLTR	Texas Instruments	3-A Step-Down Converter with Hiccup Short Circuit Protection in 2x2 QFN Package, RLT0007A	RLT0007A
75	U12, U17	2		SN74CB3Q3257DGVR	Texas Instruments	4-Bit 1-of-2 FET Multiplexer/Demultiplexer 2.5-V/3.3-V Low-Voltage High-Bandwidth Bus Switch, DGV0016A	DGV0016A
76	U13	1		TPS73618DBVR	Texas Instruments	Single Output Low Noise LDO, 400 mA, Fixed 1.8 V Output, 1.7 to 5.5 V Input, with Reverse Current Protection, 5-pin SOT-23 (DBV), -40 to 85 degC, Green (RoHS & no Sb/Br)	DBV0005A
77	U14	1		CDCE913PWR	Texas Instruments	Programmable 1-PLL VCXO Clock Synthesizer With 1.8-V, 2.5-V, and 3.3-V Outputs, PW0014A (TSSOP-14)	PW0014A
78	U16	1		SN74LV1T126DCKR	Texas Instruments	Single Power Supply Single Buffer Gate with 3-State Output CMOS Logic Level Shifter, DCK0005A	DCK0005A
79	U18	1		SN74LVC1G125DCKR	Texas Instruments	Single Bus Buffer Gate With 3-State Output, DCK0005A (SOT-5)	DCK0005A
80	U19	1		TL760M33QKVURQ1	Texas Instruments	Single Output Automotive LDO, 500 mA, Fixed 3.3 V Output, 3.8 to 26 V Input, 3-pin PFM (KVU), -40 to 125 degC, Green (RoHS & no Sb/Br)	KVU0003A
81	U26, U27	2		SN74LVC1G14DRLR	Texas Instruments	SINGLE SCHMITT-TRIGGER INVERTER, DRL0005A (SOT-5)	DRL0005A
82	Y1	1		ASTMLPA-24.000MHZ-EJ-E-T	Abracon Corporation	OSC, 24 MHz, 2.25 - 3.63 V, SMD	2x1.6mm
83	C85, C86, C97, C98	4	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
84	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A