Variant: 001
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TIDA-01529 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB	1		TIDA-01529	Any	Printed Circuit Board	
2	C1, C6, C34	3	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	0603
3	C2, C3, C4, C5	4	0.1uF	C0603X104K3RACTU	Kemet	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
4	C9, C10, C11, C12, C13, C14, C15, C16, C21, C22, C23, C24, C26, C28, C29, C30, C31, C32, C33	19	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
5	C17, C18	2	47pF	GRM1555C1E470JA01D	MuRata	CAP, CERM, 47 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
6	C19	1	100pF	CGA2B2C0G1H101J050BA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
7	C20	1	1000pF	GRM1555C1H102JA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
8	C25	1	22uF	C2012X5R1C226K125AC	TDK	CAP, CERM, 22 uF, 16 V, +/- 10%, X5R, 0805	0805
9	C27	1	0.01uF	GRM155R70J103KA01D	MuRata	CAP, CERM, 0.01 uF, 6.3 V, +/- 10%, X7R, 0402	0402
10	D1, D2	2	Red	LTST-C170KRKT	Lite-On	LED, Red, SMD	Red 0805 LED
11	D3, D4	2	Yellow	LTST-C170KSKT	Lite-On	LED, Yellow , SMD	0805 LED
12	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
13	H5, H6, H7, H8	4		1902C	Keystone		Standoff
14	J1	1		972	Keystone	RCA Jack, Black, R/A, TH	RCA Jack, Black, R/A, TH
15	J2, J6, J7, J8, J9, J10, J11, J12, J22, J23, J24, J25, J26, J27	14		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
16	J3	1		971	Keystone	RCA Jack, Red, R/A, TH	PC Mount Phono Jack-Red, TH
17	J4, J5	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
18	J13, J14, J15, J16, J17, J18, J20, J21, J28	9		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
19	J19	1		DX4R205JJAR1800	JAE Electronics	Connector, Receptacle, Micro-USB Type AB, R/A, Bottom Mount SMT	Connector, USB Micro AB
20	L1, L2	2	220 ohm	MPZ1608S221A	TDK	Ferrite Bead, 220 ohm @ 100 MHz, 2.2 A, 0603	0603
21	Q1, Q2, Q3, Q5	4	40 V	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23
22	Q4	1	-60V	BSH201,215	NXP Semiconductor	MOSFET, P-CH, -60 V, -0.3 A, SOT-23	SOT-23
23	R1, R2	2	0	RC1206JR-070RL	Yageo America	RES, 0, 5%, 0.25 W, 1206	1206
24	R3, R4, R8, R11, R16, R26, R28, R29, R30, R37, R38	11	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
25	R5, R10	2	820	RC0402FR-07820RL	Yageo America	RES, 820, 1%, 0.063 W, 0402	0402
26	R6	1	200k	ERJ-2RKF2003X	Panasonic	RES, 200 k, 1%, 0.1 W, 0402	0402
27	R7	1	16.9k	ERA-2AEB1692X	Panasonic	RES, 16.9 k, 0.1%, 0.063 W, 0402	0402
28	R9	1	9.09k	RC0603FR-079K09L	Yageo America	RES, 9.09 k, 1%, 0.1 W, 0603	0603
29	R12, R27	2	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
30	R13	1	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
31	R14, R15, R33, R39, R42	5	2.00k	ERJ-2RKF2001X	Panasonic	RES, 2.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
32	R17	1	15.0k	ERA-2AEB153X	Panasonic	RES, 15.0 k, .1%, .063 W, AEC-Q200 Grade 0, 0402	0402
33	R18	1	1.50k	ERA-2AEB152X	Panasonic	RES, 1.50 k, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
34	R19, R22, R23, R24	4	49.9	RC0402FR-0749R9L	Yageo America	RES, 49.9, 1%, 0.063 W, 0402	0402
35	R20, R21	2	27.4	RC0603FR-0727R4L	Yageo America	RES, 27.4, 1%, 0.1 W, 0603	0603
36	R25	1	3.09k	ERA-2AEB3091X	Panasonic	RES, 3.09 k, 0.1%, 0.062 W, AEC-Q200 Grade 0, 0402	0402
37	R31, R32	2	649	RC0603FR-07649RL	Yageo America	RES, 649, 1%, 0.1 W, 0603	0603
38	R34, R35, R40, R41	4	20k	ERJ-2GEJ203X	Panasonic	RES, 20 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
39	R36	1	1.00k	ERJ-2RKF1001X	Panasonic	RES, 1.00 k, 1%, 0.1 W, 0402	0402
40	S1, S2, S3, S4	4		TL1015AF160QG	E-Switch	Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	Switch, 4.4x2x2.9 mm
41	SH-J1, SH-J2, SH-J3, SH-J4, SH-J5, SH-J6, SH-J7, SH-J8, SH-J9, SH-J10, SH-J11, SH-J12, SH-J13, SH-J14, SH-J15	15	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black	Shunt
42	U1	1		TAS2505TRGERQ1	Texas Instruments	2.6-W Digital/Analog Input Automotive Class-D Speaker Amplifier With Audio Processing, RGE0024K (VQFN-24)	RGE0024K
43	U2	1		LM2903QDGKRQ1	Texas Instruments	Dual Differential Comparators, DGK0008A (VSSOP-8)	DGK0008A
44	U3	1		24LC512-I/ST	Microchip	EEPROM, 512KBIT, 400KHZ, 8TSSOP	TSSOP-8
45	U4	1		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
46	U5	1		SN74LVC1G126DCKR	Texas Instruments	Single Bus Buffer Gate With 3-State Outputs, DCK0005A, LARGE T&R	DCK0005A
47	U6	1		TAS1020BPFBR	Texas Instruments	USB Streaming Controller, NRND, PFB0048A (TQFP-48)	PFB0048A
48	U7	1		TPS73633DBVR	Texas Instruments	Single Output Low Noise LDO, 400 mA, Fixed 3.3 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
49	U8, U9	2		SN74AVC4T774RSVR	Texas Instruments	4-Bit Dual-Supply Bus Transceiver With Configurable Voltage-Level Shifting and 3-State Outputs, RSV0016A (UQFN-16)	RSV0016A
50	Y1	1		625L3I006M00000	CTS Electrocomponents	Oscillator, 6 MHz, 3.3V, SMD	2.5x1x2.5mm
51	C7, C8	0	1uF	GRM319R71C105KAA3D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 1206	1206
52	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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