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TIDA-010264 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-010264	Any	Printed Circuit Board	
2	Backup_Out, BSL, DAC, GND, GND1, GPIO1, GPIO2, GPIO3, OPA_0_Out, RSTn, SPK-, SPK+, Sup_Cap, Vbackup, Vin	15		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
3	C1, C4, C5, C13, C24, DNC1	6	0.1uF	GRM155R61A104KA01D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X5R, 0402	0402
4	C2	1	220 nF	CC0603MRX7R6BB224	YAGEO	CAP CER 0.22UF 10V X7R 0603	0603
5	C3	1	10uF	F380J106MMA	AVX	CAP TANT POLY 10UF 6.3V SMD	0603
6	C6	1	16pF	GRM1885C1H160JA01D	MuRata	CAP, CERM, 16 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
7	C7	1	100 pF	C0603C101J4GAC7867	KEMET	CAP CER 100PF 16V NP0 0603	0603
8	C8, C9, C10	3	2.2uF	C1608X7R1A225M080AC	TDK	CAP, CERM, 2.2 uF, 10 V, +/- 20%, X7R, 0603	0603
9	C11	1	1000pF	C0603C102F3GACTU	Kemet	CAP, CERM, 1000 pF, 25 V, +/- 1%, C0G/NP0, 0603	0603
10	C12	1	1uF	EMK107B7105KAHT	Taiyo Yuden	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
11	C14, C22	2	0.22uF	GCM155R71C224KE02D	MuRata	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
12	C15	1	10uF	CL05A106MP5NUNC	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	0402
13	C16, C17	2	22uF	GRM21BR61A226ME44L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0805	0805
14	C18	1	47uF	F981A476MSA	KYOCERA AVX	Cap Tant Solid 47uF 10V S CASE 20% (2 X 1.25 X 0.8mm) SMD 2012-09 5 Ohm 125°C T/R	0805
15	C19	1	10uF	GRM188R61A106ME69D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	0603
16	C20	1	0.1uF	CGA2B3X7R1H104K050BD	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
17	C21	1	5F	BCAP0005 P270 S01	Maxwell Technologies	CAP, Electric Double Layer, 5000000 uF, 2.7 V, +20/-10%, 0.036 ohm, AEC-Q200 Grade 4, TH	TH, 2-Leads, 8mm Dia, 20mm Height
18	D1	1	Red	LTST-C170KRKT	Lite-On	LED, Red, SMD	0805
19	D2, D3	2	Yellow	LTST-C170KSKT	Lite-On	LED, Yellow, SMD	0805
20	D4, D5	2	30V	BAT54CWT1G	Fairchild Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOT-323	SOT-323
21	D6	1	Green	SML-P12PTT86	Rohm	LED, Green, SMD	LED, 1x2x6mm
22	J1, J2	2		851-43-004-20-001000	Mill-Max	SOCKET .050" GRID SIP 4 POS R/A, TH	R/A 4x1 receptacle
23	J3	1		SM06B-SRSS-TB(LF)(SN)	JST Manufacturing	Header (Shrouded), 1 mm, 6x1, Tin, R/A, SMT	Header (Shrouded), 1 mm, 6x1, R/A, SMT
24	J6	1		2908-05WB-MG	3M	Connector, Micro SD, R/A, SMD	Connector, Micro SD, R/A, SMD
25	L1	1	2.2uH	XGL4020-222MEC	Coilcraft	Shielded Power Inductor 2.2uH 20% 8.9A 21.5mOhm Max DCR AEC-Q200 4.0x4.0x2.1mm	SMT_4MM0_4MM0
26	LS1	1		PB-09N23P-03Q	Mallory	Buzzers Indicator, Internally Driven Magnetic 3 V 30mA 2.7kHz 82dB @ 3V, 10cm Through Hole PC Pins	RADIAL

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
27	MK1	1		POM-2242P-C33-R	PUI Audio	Microphone, Condenser, Analog, Omnidirectional, -42DB, TH	6mm DIA
28	Q1, Q2, Q3, Q4, Q5	5	12V	CSD13381F4	Texas Instruments	MOSFET, N-CH, 12 V, 2.1 A, YJC0003A (PICOSTAR-3)	YJC0003A
29	R1, R3, R4, R5	4	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
30	R2	1	140	CRCW0603140RFKEA	Vishay-Dale	RES, 140, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
31	R6, R7, R8, R10, R11, R12	6	10.0k	RC0402FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.063 W, 0402	0402
32	R9, R21	2	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
33	R13, R40	2	75.0k	CRCW040275K0FKED	Vishay-Dale	RES, 75.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
34	R14	1	3.6k	CRCW04023K60JNED	Vishay-Dale	RES, 3.6 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R15	1	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
36	R16, R17, R18	3	100k	AC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, AEC-Q200 Grade 0, 0402	0402
37	R19	1	47.0k	RC0603FR-0747KL	Yageo	RES, 47.0 k, 1%, 0.1 W, 0603	0603
38	R20	1	20m	WFPC0603R0200FE66	Vishay Dale	Metal Foil Current Sense Resistors 0.02 OHM .5 W 1% 0603 SMD	0603
39	R22	1	3.00k	RC0402FR-073KL	Yageo America	RES, 3.00 k, 1%, 0.0625 W, 0402	0402
40	R23, R24	2	165	RC0603FR-07165RL	Yageo	RES, 165, 1%, 0.1 W, 0603	0603
41	R26	1	13.0k	CRCW040213K0FKED	Vishay-Dale	RES, 13.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
42	R30	1	84.5	RC0603FR-0784R5L	Yageo	RES, 84.5, 1%, 0.1 W, 0603	0603
43	R46, R48, R60	3	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
44	R56	1	40.2k	RC0603FR-0740K2L	Yageo	RES, 40.2 k, 1%, 0.1 W, 0603	0603
45	R57	1	48.7k	RC0603FR-0748K7L	Yageo	RES, 48.7 k, 1%, 0.1 W, 0603	0603
46	SW1	1		1188E-1K2-V-TR	Diptronics	Switch, SPST, 0.05 A, 12 VDC, SMD	7.8x3.5mm
47	U1	1		TPA6211A1DRB	Texas Instruments	3.1-W Mono, Fully Differential, Class-AB Audio Amplifier, -40 to 85 degC, 8-pin SON (DRB8), Green (RoHS & no Sb/Br)	DRB8-1750X1500TP
48	U2	1		MSPM0G1507SRGZ	Texas Instruments	Mixed-Signal Microcontrollers	VQFN48
49	U3	1		MX25R8035FZUIL0	Macronix International Co., Ltd.	Ultra Low Power 8M-BIT [x 1/x 2/x 4] CMOS MXSMIO FLASH MEMORY	USON8
50	U4	1		SN74LVC1G10DCKR	Texas Instruments	Single 3-Input Positive-NAND Gate, DCK0006A (SOT-SC70-6)	DCK0006A
51	U6	1		TPL5010DDCR	Texas Instruments	IC OSC PROG TIMER TSOT23-6	TSOT23-6
52	U7	1		TPS61094DSS	Texas Instruments	100-nA QUIESCENT CURRENT BI-DIRECTIONAL BUCK/BOOST CONVERTER WITH BYPASS MODE, DSS0012B (WSON-12)	DSS0012B

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