

TIDA-00724 REV A Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-00724	Any	Printed Circuit Board	
2	C1, C16, C19, C21, C22	5	10uF	C0805C106K9PAC	Kemet	CAP. CERM, 10 µF, 6.3 V, +/- 10%, X5R, 0805	0805
3	C2, C13	2	1uF	GRM21BR71H105KA12L	MuRata	CAP. CERM, 1uF, 50V, +/-10%, X7R, 0805	0805
4	C3	1	330uF	EKZE500ELL331MU25S	Chem-Con	CAP. AL, 330 µF, 50 V, +/-20%, 0.028 ohm, TH	D10x25mm
5	C4, C8, C9, C11, C12	5	2.2uF	EMK212B7225KG-T	Taiyo Yuden	CAP. CERM, 2.2uF, 16V, +/-10%, X7R, 0805	0805
6	C5, C10	2	0.22uF	C1608X7R1H224K080AB	TDK	CAP. CERM, 0.22 µF, 50 V, +/- 10%, X7R, 0603	0603
7	C6, C7, C24, C25, C27, C28	6	0.1uF	C2012X7R2A104K	TDK	CAP. CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805
8	C17, C18, C20, C23	4	0.1uF	C1608X7R1C104K	TDK	CAP. CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603
9	C31	1	2200pF	GRM188R71H222KA01D	MuRata	CAP. CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
10	C32	1	4.7uF	GRM31CR71E476KA88L	MuRata	CAP. CERM, 4.7 µF, 25 V, +/- 10%, X7R, 1206	1206
11	C33	1	0.082uF	GRM188R71E823KA01D	MuRata	CAP. CERM, 0.082 µF, 25 V, +/- 10%, X7R, 0603	0603
12	C34, C38	2	0.1uF	GRM188R71E104KA01D	MuRata	CAP. CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0603	0603
13	C35	1	10uF	GRM31CR61H106KA12L	MuRata	CAP. CERM, 10 µF, 50 V, +/- 10%, X5R, 1206_190	1206_190
14	C36, C37	2	4.7uF	TPSC479K035R0600	AVX	CAP. TA, 4.7 µF, 35 V, +/- 10%, 0.6 ohm, SMD	6032-28
15	C39, C40, C41, C42, C43, C44, C52	7	0.1uF	GRM155R71C104KA88D	MuRata	CAP. CERM, 0.1uF, 16V, +/-10%, X7R, 0402	0402
16	C45	1	10uF	C1608X5R1A106M	TDK	CAP. CERM, 10uF, 10V, +/-20%, X5R, 0603	0603
17	C46, C51	2	1uF	C1005X5R0J105M	TDK	CAP. CERM, 1uF, 6.3V, +/-20%, X5R, 0402	0402
18	C47, C48	2	47pF	GRM1555C1E470JA01D	MuRata	CAP. CERM, 47pF, 25V, +/-5%, COG/NP0, 0402	0402
19	C49	1	100pF	GRM1555C1H101JA01D	MuRata	CAP. CERM, 100pF, 50V, +/-5%, COG/NP0, 0402	0402
20	C50	1	1000pF	GRM1555C1H102JA01D	MuRata	CAP. CERM, 1000pF, 50V, +/-5%, COG/NP0, 0402	0402
21	D1	1	Blue	SMLP12BC7T86	Rohm	LED, Blue, SMD	Blue LED
22	FL1	1	1MHZ-1GHZ	BNX022-01L	MuRata	Filter, EMI, 10A 50V 1MHZ-1GHZ SMD	12.1x3.1x9.1
23	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
24	H5, H6, H7, H8	4		1802C	Keystone	Standoff, Hex, 0.5" #4-40 Nylon	Standoff
25	J1	1		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
26	J2, J10, J11, J12, J13	5		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
27	J3	1		ED555/4DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 4-Pos, TH	14x8.2x6.5mm
28	J4	1		SJ1-3515-SMT-TR-PI	CUI Inc.	Audio Jack, 3.5mm, Stereo, R/A, Pink, SMT	Audio Jack, 15x9.5mm SMT
29	J5	1		SPC15363	Tenma	BANANA JACK, SOLDER LUG, RED, TH	Red Insulated Banana Jack
30	J6	1		SPC15354	Tenma	BANANA JACK, SOLDER LUG, BLACK, TH	Black Insulated Banana Jack
31	J8	1		PEC02DAAN	Sullins Connector Solutions	Header, 100mil, 2x2, Tin, TH	Header, 2x2, 2.54mm, TH
32	J9	1		DX4R205JJAR1800	JAE Electronics	Connector, Receptacle, Micro-USB Type AB, R/A, Bottom Mount SMT	Connector, USB Micro AB
33	K1	1		CPC1002NTR	IXYS	Relay, SPST-NO (1 Form A), 0.7 A, SMD	4.089x3.81mm
34	L1, L2	2	15uH	DFEG7030D-150M	Toko	Inductor, Shielded, Metal Composite, 15 µH, 2.7 A, 0.179 ohm, AEC-Q200 Grade 1, SMD	7x6.6mm
35	L3	1	10uH	SER1360-103KLB	Coilcraft	Inductor, Shielded E Core, Ferrite, 10 µH, 7.2 A, 0.01 ohm, SMD	SER1360
36	MK1	1		CMA-4544PF-W	CUI Inc.	Microphone, Electret Condenser, Omnidirectional, -44 dB, TH	THD, 2-Leads, Dia 9.85mm, Pin Spacing 2.54mm
37	Q1	1	0.3V	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40V, 0.15A, SOT-23	SOT-23
38	R1, R2, R11	3	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100k ohm, 5%, 0.1W, 0603	0603
39	R3, R4	2	10k	CRCW060310KJNEA	Vishay-Dale	RES, 10k ohm, 5%, 0.1W, 0603	0603
40	R6, R10, R16, R17	4	0	MCR03EZPJ000	Rohm	RES, 0, 5%, 0.1 W, 0603	0603
41	R8	1	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
42	R12, R13	2	2.7k	RC0603JR-072K7L	Yageo America	RES, 2.7 k, 5%, 0.1 W, 0603	0603
43	R14, R15	2	2.2k	RC0603JR-072K2L	Yageo America	RES, 2.2 k, 5%, 0.1 W, 0603	0603
44	R18	1	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
45	R19	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
46	R20, R38	2	100k	CRCW0402100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.063W, 0402	0402
47	R21, R26	2	0	CRCW0603000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
48	R24, R25	2	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99k ohm, 1%, 0.063W, 0402	0402
49	R27	1	15.0k	CRCW040215K0FKED	Vishay-Dale	RES, 15.0k ohm, 1%, 0.063W, 0402	0402
50	R28, R30, R33, R35	4	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9 ohm, 1%, 0.063W, 0402	0402
51	R29, R36, R39, R41	4	0	CRCW0402000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
52	R31	1	1.50k	CRCW04021K50FKED	Vishay-Dale	RES, 1.50k ohm, 1%, 0.063W, 0402	0402
53	R32, R34	2	27.4	CRCW040227R4FKED	Vishay-Dale	RES, 27.4 ohm, 1%, 0.063W, 0402	0402
54	R37	1	3.09k	CRCW04023K09FKED	Vishay-Dale	RES, 3.09k ohm, 1%, 0.063W, 0402	0402
55	R40	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
56	R42	1	360	CRCW0402360RJNED	Vishay-Dale	RES, 360 ohm, 5%, 0.063W, 0402	0402
57	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12	12	Yellow	5009	Keystone	Test Point, Compact, Yellow, TH	Yellow Compact Testpoint
58	TP13, TP14, TP15, TP16	4	Black	5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint
59	U1	1		TPD2E007DCKR	Texas Instruments	ESD Protection Array for AC Signal Data Interface, 2 Channels, -40 to +85 degC, 3-pin SC70 (DCK), Green (RoHS & no Sb/Br)	DCK0003A
60	U2	1		TASS411QPWPRQ1	Texas Instruments	8-W Mono Automotive Digital-Audio Amplifier With Load Dump and I2C Diagnostics, PWP0016B	PWP0016B
61	U3	1		6PAIC3104IRHBRQ1	Texas Instruments	LOW-POWER STEREO AUDIO CODEC, RH00032E	RH00032E
62	U4	1		TPS7B6933QDCVCRQ1	Texas Instruments	High Voltage Ultra Low Iq - Low Drop Out Regulator, DCY0004A	DCY0004A
63	U5	1		TPS70918QDBVCRQ1	Texas Instruments	150-mA, 30-V, Ultra-Low Iq, Wide Input LDO with Reverse Current Protection for Automotive, DBV0005A (SOT-23-5)	DBV0005A
64	U6	1		24LC512-I/ST	Microchip	EEPROM, 512KBIT, 400KZ, 8TSSOP	TSSOP-8
65	U9	1		TAS1020BPF FB	TI	IC, USB Streaming Controller	PQFP48
66	Y1	1		625L31006M00000	CTS Electrocomponents	Oscillator, 6MHz, 3.3V, SMD	2.5x1x2.5mm
67	C26, C29, C30	0	Value	Used in BOM report	Used in BOM report	CAP, CERM, xof, xv, [TempCo], x%, [PackageReference]	Used in PnP output and some BOM reports
68	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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