

Bill of Materials

TI DESIGNS

TIDA-00385

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint
1	1	U1		24-BIT 384KHz AUDIO STEREO DAC w/MINI DSP QFN32-RHB ROHS	Texas Instruments	PCM5242RHB	QFN32-RHB
2	1	U2		HIGH FIDELITY HEADPHONE AMP QFN14-RGY ROHS	Texas Instruments	TPA6120A2RGY	QFN14-RGY
3	1	U3		2 CHAN,ASYNC,SAMPLE RATE CONV W/DIG AUDIO REC/XMTR ROHS	Texas Instruments	SRC4392IPFBR	
4		U4		USB STREAMING CONTROLLER TQFP48-PFB ROHS	Texas Instruments	TAS1020BPFB	TQFP48-PFB
5	1	VR1		VOLT REG 1.8V 400MA LDO CAP FREE NMOS SOT23-DBV5 ROHS	Texas Instruments	TPS73618DBVT	
6	1	VR2		LDO VOLTREG 3.3V 500mA LO CURRENT LO NOISE HI PSRR SON6-DRV ROHS	Texas Instruments	TPS73533DRVT	
7	1	VR3		VOLTAGE REGULATOR SINGLE INDUCTOR MULTIPLE OUT QFN16-RTE ROHS	Texas Instruments	TPS65135RTER	
8	4	BUF1, BUF2, BUF3, BUF4		SINGLE BUS BUFFER GATE WITH 3-STATE OUTPUT SOT553-DRL5 ROHS	Texas Instruments	SN74AUP1G125DRLR	
9	1	BUF5		IC LVL-TRANSL I2C BUS REP,MSOP8-DGK,ROHS	Texas Instruments	TCA9517DGKR	
10	1	OPTO-IN		PHOTOLINK FIBER OPTIC RECEIVER 2.4-5.5V 15MB PCB-RA SHUTTER ROHS	EVERLIGHT ELECTRONICS	PLR135/T10	
11	1	EEPROM		SERIAL EEPROM I2C 256K 400kHz MSOP8-MS ROHS	MICROCHIP	24LC256-I/MS	
12	1	Q3		TRANSISTOR NPN GENERAL PURPOSE 40V 1A SOT23 DBV3 ROHS	DIODES INC.	MMBT2222A-7-F	
13	1	3.3V		LED, GREEN 2.0V SMD0805 ROHS	LUMEX OPTO	SML-LXT0805GW-TR	
14	3	RX-LOCK, USB-LOCK, SRC-READY		LED, BLUE 3.3V SMD0805 ROHS	LITE-ON INC.	LTST-C170TBKT	
15	1	OSC1		OSCILLATOR SMT 6.0MHz 3.3V OUT-ENABLE ROHS	CTS FREQUENCY CONTROLS	625L3I006M00000	
16	29	C1, C5, C7, C9, C14, C17, C18, C19, C20, C23, C24, C26, C27, C30, C31, C32, C33, C35, C38, C41, C47, C51, C52, C53, C54, C55, C56, C63, C64	0.1UF	CAP SMD0402 CERM 0.1UFD 16V X7R 10% ROHS	MURATA	GRM155R71C104KA88D	
17	3	C2, C3, C65	2.2UF	CAP SMD0805 CERM 2.2UFD 25V 10% X7R ROHS	MURATA	GCM21BR71E225KA73L	
18	4	C4, C6, C34, C37	10UF	CAP SMD0603 CERM 10ufd 10V 10% X5R ROHS	TDK CORP	C1608X5R1A106K	
19	2	C10, C11	1000PF	CAP SMD0603 CERM 1000PFD 50V 5% COG ROHS	TDK CORP.	C1608C0G1H102J	
20	4	C12, C13, C15, C16	0.1UF	CAP SMD0402 CERM 0.1ufd 25V 10% X7R ROHS	TDK CORP	C1005X7R1E104K	
21	2	C21, C49	0.01UF	CAP SMD0402 CERM 0.01ufd 16V 10% X7R ROHS	AVX	0402YC103KAT2A	
22	1	C22	2.2UF	CAP SMD0603 CERM 2.2UFD 10V 10% X5R ROHS	MURATA	GRM188R61A225KE34D	
23	3	C25, C28, C29	10UF	CAP SMD0603 CERM 10UFD 6.3V 20% X5R ROHS	MURATA	GRM188R60J106ME47D	
24	2	C42, C43	47PF	CAP SMD0402 CERM 47pfd 50V 5% COG ROHS	JOHANSON	500R07N470JV4T	
25	1	C45	100PF	CAP SMD0402 CERM 100pfd 50V 5% NPO ROHS	YAGEO	CC0402JRNPO9BN101	
26	1	C46	1000PF	CAP SMD0402 CERM 1000pfd 16V 10% X7R ROHS	YAGEO	CC0402KRX7R7BB102	
27	1	C48	1.0UF	CAP SMD0603 CERM 1.0UFD 16V 10% X7R ROHS	TAIYO YUDEN	EMK107B7105KA-T	
28	1	C50	2.2UF	CAP SMD0603 CERM 2.2UFD 10V 10% X7R ROHS	MURATA	GRM188R71A225KE15D	
29	2	C61, C62	10UF	CAP SMD0603 CERM 10UFD 25V 20% X5R ROHS	TDK CORP.	C1608X5R1E106M080AC	
30	1	RC1	0R	RESISTOR SMD0603 0.0 OHM 5% THICK FILM 1/10W ROHS	PANASONIC	ERJ-3GEY0R00V	
31	8	R1, R2, R3, R4, R15, R16, R17, R18	402R	RESISTOR SMD0603 402 OHMS 1% 1/10W ROHS	VISHAY	CRCW0603402RFKEA	

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32	10	R5, R6, R7, R8, R81, R82, R83, R84, R85, R86	47R	RESISTOR SMD0402 THICK FILM 47.0 OHMS 1% 1/16W ROHS	YAGEO	RC0402FR-0747RL	
33	3	R9, R10, R11	1R	RESISTOR SMD0603 1.0 OHMS 1% THICK FILM 1/10W ROHS	PANASONIC	ERJ-3GEYJ1R0V	
34	4	R12, R13, R19, R20	806R	RESISTOR SMD0603 806 OHMS 1% 1/10W ROHS	VISHAY	CRCW0603806RFKEA	
35	3	R14, R27, R51	1K	RESISTOR SMD0402 1.00K 1%,1/16W ROHS	PANASONIC	ERJ-2RKF1001X	
36	2	R21, R22	39.2R	RESISTOR SMD0805 39.2 OHMS 1% 1/8W THICK FILM ROHS	VISHAY	CRCW080539R2FKEA	
37	1	R23	0R	RESISTOR SMD1206 0.0 OHM 5% 1/4W ROHS	PANASONIC	ERJ-8GEY0R00V	
38	1	R24	365K	RESISTOR SMD0805 THIN FILM 365k OHMS 1% 1/8W ROHS	PANASONIC	ERJ-6ENF3653V	
39	1	R25	120K	RESISTOR SMD0805 THIN FILM 120k OHMS 1% 1/8W ROHS	PANASONIC	ERJ-6ENF1203V	
40	1	R26	487K	RESISTOR SMD0805 THIN FILM 487k OHMS 1% 1/8W ROHS	PANASONIC	ERJ-6ENF4873V	
41	13	R34, R35, R36, R37, R38, R39, R41, R42, R43, R44, R52, R79, R80	4.99K	RESISTOR SMD0402 4.99K 1%,1/16W ROHS	PANASONIC	ERJ-2RKF4991X	
42	3	R40, R49, R69	10K	RESISTOR SMD0402 10.0K OHMS 1% 1/16W ROHS	VISHAY	CRCW040210K0FKED	
43	1	R47	360R	RESISTOR SMD0402 360 1/16W 1% ROHS	VISHAY	CRCW0402360RFKED	
44	1	R48	0R	RESISTOR SMD0603 ZERO OHMS 1/10W ROHS	STACKPOLE ELECTRONICS	RMCF0603ZTOR00	
45	1	R50	75R	RESISTOR SMD0603 75 OHMS 1% 1/10W ROHS	VISHAY	CRCW060375R0FKEA	
46	2	R53, R55	22.1R	RESISTOR SMD0603 22.1 OHMS 1% 1/10W ROHS	VISHAY	CRCW060322R1FKEA	
47	1	R70	15K	RESISTOR SMD0402 THICK FILM 15.0K OHM 1% 1/16W ROHS	YAGEO	RC0402FR-0715KL	
48	1	R71	1.5K	SISTOR SMD0402 1.50K OHMS 1% 1/16W ROHS	STACKPOLE ELECTRONICS	48 RMCF0402FT1K50	
49	2	R72, R73	27.4R	RESISTOR SMD0402 THICK FILM 27.4 OHMS 1/10W 1% ROHS	PANASONIC	ERJ-2RKF27R4X	
50	1	R76	100K	RESISTOR SMD0402 THICK FILM 100K OHMS 1/16W 1% ROHS	PANASONIC	ERJ-2RKF1003X	
51	1	R77	0R	ZERO OHM JUMPER SMT 0402 0 OHM 1/16W,5% ROHS	STACKPOLE ELECTRONICS	RMCF0402ZTOR00	
52	1	R78	3.09K	RESISTOR SMD0402 THICK FILM 3.09K OHM 1% 1/16W ROHS	YAGEO	RC0402FR-073K09L	
53	1	L1	2.2uH	INDUCTOR POWER SMD1008 2.2uH RDC=80mOHMS 2.3A DFE252012C ROHS	TOKO JAPAN	1239AS-H-2R2N=P2	
54	2	FB1, FB2	220R	FERRITE CHIP, 220 OHMS 2A 100MHZ SMD 0603 ROHS	TDK	MPZ1608S221A	
55	7	JP1, JP2, JP3, JP4, JP7, JP8, JP10		HEADER THRU MALE 3 PIN 100LS 120 TAIL GOLD ROHS	SULLINS	PBC03SAAN	
56	15	V+, V-, JP5, JP6, JP9, MODE1, MODE2/MS, GPIO2/GPO, GPIO6/FLT, GPIO3/AGNS, GPIO4/MAST, GPIO5/ATT0, SCL/MC/ATT1, ADR1/MISO/FMT, SDA/MOSI/ATT2		HEADER THRU MALE 2 PIN 100LS 120 TAIL GOLD ROHS	SULLINS	PBC02SAAN	
57	1	SPDIF		RCA JACK THRU RA-FEMALE BLACK ROHS	CUI STACK	RCJ-041	
58	1	USB		JACK USB FEMALE TYPEB MICRO SMT-RA 5PIN ROHS	HIROSE	ZX62WD1-B-5PC	
59	1	A-OUT		JACK AUDIO-STEREO MINI(3.5MM ,3-COND SMT-RA ROHS	CUI STACK	SJ-3523-SMT	
60	4	SCL, SDA, TP1, RXCKI		PC TESTPOINT, ORANGE, ROHS	KEYSTONE ELECTRONICS	5003	
61	1	GND		PC TESTPOINT, BLACK, ROHS	KEYSTONE ELECTRONICS	5001	
62	2	XSMT, RESET		SWITCH, MOM, 160G SMT 4X3MM ROHS	E-SWITCH	TL1015AF160QG	
63	4	HWB1, HWB2, HWB3, HWB4		BUMPON RUBBER BLACK 0.375in x 0.235in ROHS	3M	SJ61A2	
64	15	V+, V-, JP5, JP6, JP9, MODE1, MODE2/MS, GPIO2/GPO, GPIO6/FLT, GPIO3/AGNS, GPIO4/MAST, GPIO5/ATT0, SCL/MC/ATT1, ADR1/MISO/FMT, SDA/MOSI/ATT2		SHUNT BLACK AU FLASH 0.100LS OPEN TOP ROHS	3M	969102-0000-DA	

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