

Bill of Materials

TI DESIGNS

TI-SEMICONDUCTORS

ITEM	MANU PART NUM	QTY	REF DESIGNATORS	VENDOR PART NUM	DESCRIPTION	VENDOR	MANU
1	PCM2705DB	1	U1	296-15274-5	STEREO AUDIO DAC W/USB SE HEADPHONE/SPDIF OUT SSOP28-DB ROHS	DIGI-KEY	TEXAS INSTRUMENTS
2	SN74LVC2G53DCTR	1	U2	296-13269-1	SPDT ANALOG SWITCH 2:1 MUX/DEMUX SSOP8-DCT ROHS	DIGI-KEY	TEXAS INSTRUMENTS
3	DIR9001PW	1	U3	296-21389-5	DIG AUDIO INTERFACE RECEIVER 96KHZ 24BIT 3.3V TSSOP28-PW ROHS	DIGI-KEY	TEXAS INSTRUMENTS
4	TPS3825-33DBVT	1	U4	296-2636-1	PROCESSOR SUPERVISORY CIRCUITS 2.93V 200ms SOT23-DBV5 ROHS	DIGI-KEY	TEXAS INSTRUMENTS
5	MSP430F2132IPWR	1	U6	296-23367-1	MIXED SIGNAL MICRO 8KB+256B FLASH 512B RAM TSSOP28-PW ROHS	DIGI-KEY	TEXAS INSTRUMENTS
6	PCM3070IRHB	1	U7	PCM3070IRHB	LO PWR AUDIO CODEC,EMBEDDED miniDSP STEREO CLASS-D AMP ROHS	TEXAS INSTRUMENTS	TEXAS INSTRUMENTS
7	TPA3110D2PWPR	1	U8	296-24926-1	15-W STEREO CLASS-D AUDIO POWER AMP HTSSOP28-PWP ROHS	DIGI-KEY	TEXAS INSTRUMENTS
8	PCA9535DBQR	1	U9	595-PCA9535DBQR	REMOTE 16B I2C SMBUS LO PWR IO EXPNDR INT OUT SSOP24-DBQ ROHS	MOUSER	TEXAS INSTRUMENTS
9	SN74LVC1G08DBVR	1	U11	296-11601-1-ND	SINGLE 2-INPUT POSITIVE-AND GATE SOT23-DBV5 ROHS	DIGI-KEY	TEXAS INSTRUMENTS
10	SN74LVC1GU04DBVR	2	INV1, INV2	296-8487-1	SINGLE INVERTER GATE SOT23-DBV5 ROHS	DIGI-KEY	TEXAS INSTRUMENTS
11	UA78M33CDCYR	1	VR1	296-13424-1	VOLT REG 3.3V 500mA SOT223-DCY ROHS	DIGI-KEY	TEXAS INSTRUMENTS

SEMICONDUCTORS

ITEM	MANU PART NUM	QTY	REF DESIGNATORS	VENDOR PART NUM	DESCRIPTION	VENDOR	MANU
12	24LC128-I/SN	1	U5	24LC128-I/SN-ND	128K I2C SERIAL EEPROM SOP8-D ROHS	DIGI-KEY	MICROCHIP
13	TSOP34838	1	IR	751-1386-5	IR RECEIVER MODULE THRU 2.5-5V 38kHz TSOP348 SERIES ROHS	DIGI-KEY	VISHAY
14	TORX147PL(F,T)	1	OPTO	TORX147PLFT	TOSLINK RECEIVER 3.3V 15MB SHUTTER ROHS	DIGI-KEY	TOSHIBA
15	PESD1CAN,215	3	CR1, CR2, CR3	568-4032-2-ND	DUAL BIDIR ESD DIODES COM CATHODE 24V 200W SOT23-DBV3 ROHS	DIGI-KEY	NXP SEMICONDUCTOR
16	CECS0624V-G	2	CR4, CR5	641-1199-1-ND	5x BIDIR ESD DIODES COM CATHODE 200W SOT23-DBV6 ROHS	DIGI-KEY	COMCHIP TECHNOLOGY
17	SPB18P06P G	1	Q1	SPB18P06PGINCT-ND	MOSFET P-CH ENHANCEMENT MODE SIPMOS -60V -12A TO-263-3 ROHS	DIGI-KEY	INFINEON
18	SML-LXT0805SRW-TR	4	24V, 3.3V, IRpwr, Locked	67-1555-1	LED, RED 2.0V SMD0805 ROHS	DIGI-KEY	LUMEX OPTO
19	LTST-C170TBKT	13	USB, ANA1, ANA2, ANA3, VOL0, VOL1, VOL2, VOL3, SPDIF, SURR0, SURR1, MuteDAC, SHUTDWN	160-1579-1	LED, BLUE 3.3V SMD0805 ROHS	DIGI-KEY	LITE-ON INC.
20	ECS-120-S-5PX-TR	1	Y1	XC1249CT	CRYSTAL SMT 12.0MHz 20pF CSM7X ROHS	DIGI-KEY	ECS
21	ECS-245.7-20-5PX-TR	1	Y2	XC1304CT	CRYSTAL SMT 24.576MHz 20pfd CSM7X ROHS	DIGI-KEY	ECS
22	ECS-80-S-5PX-TR	1	Y3	XC1243CT	CRYSTAL SMT 8.0MHz 20pfd CSM7X ROHS	DIGI-KEY	ECS

CAPACITORS

ITEM	MANU PART NUM	QTY	REF DESIGNATORS	VENDOR PART NUM	DESCRIPTION	VENDOR	MANU
23	06035A150JAT2A	2	C1, C2	478-1165-1	CAP SMD0603 CERM 15PFD 50V 5% C0G ROHS	DIGI-KEY	AVX
24	C1608C0G1H180J	1	C88	445-1272-1	CAP SMD0603 CERM 18PFD 50V 5% COG ROHS	DIGI-KEY	TDK CORP.
25	C0603C270J5GACTU	2	C35, C36	399-1054-1	CAP SMD0603 CERM 27PFD 50V 5% NPO ROHS	DIGI-KEY	KEMET
26	ECJ-1VC1H330J	2	C12, C13	PCC330ACVCT	CAP SMD0603 CERM 33PFD 50V 5% NPO ROHS	DIGI-KEY	PANASONIC

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27	GRM1885C1H331JA01D	4	C52, C55, C58, C61	490-1439-1	CAP SMD0603 CERM 330PFD 50V 5% COG ROHS	DIGI-KEY	MURATA
28	ECJ-1VB1H102K	6	C48, C53, C56, C59, C62, C63	PCC1772CT	CAP SMD0603 CERM 1000PFD 50V 10% X7R ROHS	DIGI-KEY	PANASONIC
29	GRM188R71H472KA01D	1	C10	490-1506-1	CAP SMD0603 CERM 4700PFD 50V 10% X7R ROHS	DIGI-KEY	MURATA
30	GRM188R71H103MA01D	1	C74	490-1511-1	CAP SMD0603 CERM 0.01UFD 50V 20% X7R ROHS	DIGI-KEY	MURATA
31	GRM188R71C473KA01D	4	C41, C47, C75, C76	490-1529-1	CAP SMD0603 CERM 0.047UFD 16V 10% ROHS	DIGI-KEY	MURATA
32	GRM188R71C683KA01D	1	C11	490-1531-1	CAP SMD0603 CERM 0.068UFD 16V 10% X7R ROHS	DIGI-KEY	MURATA
33	C1005X5R0J104K	11	C8, C14, C18, C20, C22, C24, C37, C67, C68, C78, C85	445-1266-1	CAP SMD0402 CERM 0.1UFD 6.3V 10% X5R ROHS	DIGI-KEY	TDK CORP
34	C0603C104K8RACTU	1	C7	399-1095-1	CAP SMD0603 CERM 0.1UFD 10V 5% X7R ROHS	DIGI-KEY	KEMET
35	ECJ-1VB1C104K	2	C16, C84	PCC1762CT	CAP SMD0603 CERM 0.1UFD 16V 10% X7R ROHS	DIGI-KEY	PANASONIC
36	ECJ-1VB1C105K	2	C3, C5	PCC2224CT	CAP SMD0603 CERM 1.0UFD 16V 10% X5R ROHS	DIGI-KEY	PANASONIC
37	GRM188R71H104KA93D	3	C70, C73, C86	490-1519-1	CAP SMD0603 CERM 0.1UFD 50V 10% X7R ROHS	DIGI-KEY	MURATA
38	C1608X7R1H104K	2	C49, C64	445-1314-1	CAP SMD0603 CERM 0.1UFD 50V 10% X7R ROHS	DIGI-KEY	TDK
39	06033D224KAT2A	4	C51, C54, C57, C60	478-1245-1	CAP SMD0603 CERM 0.22UFD 25V 10% X5R ROHS	DIGI-KEY	AVX
40	0603YD474KAT2A	6	C28, C29, C31, C32, C33, C34	478-1248-1	CAP SMD0603 CERM 0.47UFD 16V 10% X5R ROHS	DIGI-KEY	AVX
41	ECJ-1VB1A105K	4	C6, C80, C81, C83	PCC2174CT	CAP SMD0603 CERM 1.0UFD 10V 10% X5R ROHS	DIGI-KEY	PANASONIC
42	C0603C105K4PACTU	6	C39, C40, C43, C44, C45, C46	399-5090-1	CAP SMD0603 CERM 1.0UFD 16V 10% X5R ROHS	DIGI-KEY	KEMET
43	GMK107BJ105KA-T	1	C42	587-1437-1	CAP SMD0603 CERM 1.0ufd 35V 10% X5R ROHS	DIGI-KEY	TAIYO YUDEN
44	ECJ-1VB0J106M	11	C4, C9, C15, C17, C19, C21, C30, C38, C66, C69, C79	PCC2395CT	CAP SMD0603 CERM 10UFD 6.3V 20% X5R ROHS	DIGI-KEY	PANASONIC
45	GRM31CR71H225KA88L	1	C71	490-3367-1	CAP SMD1206 CERM 2.2UFD 50V X7R 10% ROHS	DIGI-KEY	MURATA
46	EEU-FC1H100	1	C77	P11250	CAP 10UFD 50V RAD ALUM ELEC FC ROHS	DIGI-KEY	PANASONIC
47	C2012X5R0J226M	2	C23, C25	445-1422-1	CAP SMD0805 CERM 22UFD 6.3V 20% X5R ROHS	DIGI-KEY	TDK
48	JMK212BJ476MG-T	1	C87	587-1779-1	CAP SMD0805 CERM 47UFD 6.3V 20% X5R ROHS	DIGI-KEY	TAIYO YUDEN
49	GRM32ER60J107ME20L	2	C26, C27	490-3390-1	CAP SMD1210 CERM 100UFD 6.3V 20% X5R ROHS	DIGI-KEY	MURATA
50	EEE-1VA101XP	2	C50, C65	PCE3951CT	CAP SMD ELECT 100ufd 35V 20% VS-D8 ROHS	DIGI-KEY	PANASONIC
51	EEU-FC1H221S	1	C72	P10326	CAP THU ELE FC 220ufd 50V 20% ROHS	DIGI-KEY	PANASONIC

RESISTORS

ITEM	MANU PART NUM	QTY	REF DESIGNATORS	VENDOR PART NUM	DESCRIPTION	VENDOR	MANU
52	ERJ-3GEY0R00V	5	R74, R91, R93, R98, R101	P0.0GCT	RESISTOR SMD0603 0.0 OHM 5% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
53	ERJ-8GEY0R00V	3	R28, R33, R72	P0.0ECT	RESISTOR SMD1206 0.0 OHM 5% 1/4W ROHS	DIGI-KEY	PANASONIC
54	ERJ-3GEYJ1R0V	1	R59	P1.0GCT	RESISTOR SMD0603 1.0 OHMS 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
55	ESR10EZPJ1R0	1	R71	RHM1KCT	RESISTOR SMD0805 1.0 OHM 1/4W 1% ROHS	DIGI-KEY	ROHM
56	ERJ-8RQF1R0V	2	R73, R90	P1.0RCT	RESISTOR SMD1206 1.0 OHMS 1% 1/4W THICK FILM ROHS	DIGI-KEY	PANASONIC
57	RC0603JR-0710RL	2	R38, R100	311-10GRCT	RESISTOR SMD0603 THICK FILM 10 OHM 5% 1/10W ROHS	DIGI-KEY	YAGEO
58	ESR10EZPJ100	4	R40, R41, R42, R43	RHM10KCT	RESISTOR SMD0805 10 OHM 1% 1/4W ROHS	DIGI-KEY	ROHM
59	ERJ-8ENF10R0	1	R36	P10.0FCT	RESISTOR SMT1206 10.0 OHM 1% 1/4W ROHS	DIGI-KEY	PANASONIC
60	CRCW060322R1FKEA	2	R7, R8	541-22.1HCT	RESISTOR SMD0603 22.1 OHMS 1% 1/10W ROHS	DIGI-KEY	VISHAY
61	ERJ-3GEYJ470V	10	R16, R17, R18, R19, R25, R26, R27, R30, R31, R32	P47GCT	RESISTOR SMD0603 47 OHMS 5% 1/10W ROHS	DIGI-KEY	PANASONIC
62	CRCW060375R0FKEA	1	R66	541-75.0HCT	RESISTOR SMD0603 75 OHMS 1% 1/10W ROHS	DIGI-KEY	VISHAY
63	CRCW0603100R0FKEA	1	R67	541-100HCT	RESISTOR SMD0603 100 OHM 1/10W 1% ROHS	DIGI-KEY	VISHAY
64	MCR18EZPF1000	2	R35, R39	RHM100FRCT	RESISTOR SMD1206 100 OHMS 1% 1/4W ROHS	DIGI-KEY	ROHM
65	ERJ-3EKF3570V	1	R61	P357HCT	RESISTOR SMD0603 357 OHM 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
66	ERJ-3GEYJ471V	1	R20	P470GCT	RESISTOR SMD0603 470 OHMS 5% 1/10W ROHS	DIGI-KEY	PANASONIC
67	ERJ-3GEYJ681V	16	R13, R21, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R92	P680GCT	RESISTOR SMD0603 680 OHMS 5% 1/10W ROHS	DIGI-KEY	PANASONIC
68	RC0603FR-071KL	1	R37	311-1.00KHRCT	RESISTOR SMD0603 THICK FILM 1.00K OHM 1% 1/10W ROHS	DIGI-KEY	YAGEO

TI-SEMICONDUCTORS

69	ERJ-3EKF1501V	11	R2, R3, R6, R9, R10, R11, R12, R14, R15, R62, R94	P1.50KHCT	RESISTOR SMD0603 1.50K OHM 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
70	ERJ-3EKF2001V	1	R69	P2.00KHCT	RESISTOR SMD0603 2.00K OHM 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
71	RMCF0603FT2K49	6	R77, R79, R81, R83, R85, R87	RMCF0603FT2K49CT-ND	RESISTOR SMD0603 2.49K OHMS 1% 1/10W ROHS	DIGI-KEY	STACKPOLE ELECTRONICS
72	CRCW06032K80FKEA	1	R60	541-2.80KHCT	RESISTOR SMD0603 2.80K OHMS 1% 1/10W ROHS	DIGI-KEY	VISHAY
73	ERJ-3GEYJ472V	1	R29	P4.7KGCCT	RESISTOR SMD0603 4.7K OHMS 5% 1/10W ROHS	DIGI-KEY	PANASONIC
74	ERJ-3EKF4991V	1	R22	P4.99KHCT	RESISTOR SMD0603 4.99K OHM 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
75	CRCW06037K50FKEA	7	R70, R76, R78, R80, R82, R84, R86	541-7.50KHCT	RESISTOR SMD0603 7.50K OHMS 1% 1/10W ROHS	DIGI-KEY	VISHAY
76	ERJ-3GEYJ103V	6	R23, R24, R34, R88, R97, R103	P10KGCT	RESISTOR SMD0603 10K 5% 1/10W ROHS	DIGI-KEY	PANASONIC
77	ERJ-3GEYJ433V	1	R58	P43KGCCT-ND	RESISTOR SMD0603 43K OHMS 5% 1/10W ROHS	DIGI-KEY	PANASONIC
78	ERJ-3GEYJ473V	1	R89	P47KGCCT	RESISTOR SMD0603 47K OHMS 5% 1/10W ROHS	DIGI-KEY	PANASONIC
79	RMCF0603FT75K0	1	R57	RMCF0603FT75K0CT-ND	RESISTOR SMD0603 75.0K OHMS 1% 1/10W ROHS	DIGI-KEY	STACKPOLE ELECTRONICS
80	ERJ-3GEYJ105V	6	R1, R4, R63, R65, R68, R95	P1.0MGCCT	RESISTOR SMD0603 1.0M OHMS 5% 1/10W ROHS	DIGI-KEY	PANASONIC
81	ESR10EJPJ106	1	R5	RHM10MKCT	RESISTOR SMD0805 10 MOHMS 5% 1/4W ROHS	DIGI-KEY	ROHM

FERRITES AND INDUCTORS

ITEM	MANU PART NUM	QTY	REF DESIGNATORS	VENDOR PART NUM	DESCRIPTION	VENDOR	MANU
82	HH1812V101R-10	6	L1, L2, L3, L4, FB2, FB3	240-2543-1	FERRITE BEAD SMD1812 80 OHM@100MHz 6A ROHS	DIGI-KEY	STEWART
83	GLCR2012T100M-HC	1	L5	445-3627-1	INDUCTOR SMD0805 10uH 500mOHM 155mA 20% ROHS	DIGI-KEY	TDK
84	DLW5BTN101SQ2L	1	L6	490-4019-2-ND	CHOKE COMMON MODE 6A 100 OHMS DLW5BT SERIES ROHS	DIGI-KEY	MURATA
85	MPZ2012S300A	6	FB1, FB4, FB5, FB6, FB7, FB8	445-1566-1	FERRITE BEAD, 30 Ohms 6A 100MHz SM0805 ROHS	DIGI-KEY	TDK

HEADERS AND JACKS

ITEM	MANU PART NUM	QTY	REF DESIGNATORS	VENDOR PART NUM	DESCRIPTION	VENDOR	MANU
86	N2510-6002-RB	2	J1, J5	MHC10K	HEADER SHROUDED 100LS MALE GOLD 2x5 PINS ROHS	DIGI-KEY	3M
87	N2520-6002-RB	2	J3, J4	MHC20K	HEADER SHROUDED 100LS MALE GOLD 2X10 PINS ROHS	DIGI-KEY	3M

HEADERS AND JACKS

ITEM	MANU PART NUM	QTY	REF DESIGNATORS	VENDOR PART NUM	DESCRIPTION	VENDOR	MANU
88	SSW-109-02-G-D	1	J2	SAM1214-09	HEADER THRU FEMALE 2x9 100LS GOLD ROHS	DIGI-KEY	SAMTEC
89	TFM-110-01-S-D-WT	2	J7A, J7B	SAM8699	HEADER THRU 50LS 2X10 PINS GOLD TFM ROHS	DIGI-KEY	SAMTEC
90	N2514-6002-RB	1	SBW	MHC14K	HEADER SHROUDED 100LS MALE GOLD 2X7 PINS ROHS	DIGI-KEY	3M
91	B2PS-VH(LF)(SN)	2	LEFT, RIGHT	455-1648	JACK JST-VH RA 2-PIN 3.96mmLS ROHS	DIGI-KEY	JST
92	SJ-43516-SMT	2	IN3, HPOUT	CP-43516SJCT	JACK AUDIO MIN(3.5MM), 4-COND PCB-RA ROHS	DIGI-KEY	CUI STACK
93	PJRN1X1U01X	6	IN1L, IN1R, IN2L, IN2R, SUBOUT, SpdifIN	65K7770	JACK, RCA 3-PIN PCB-RA BLACK ROHS	NEWARK	SWITCHCRAFT
94	RAPC722X	1	J6	SC1313	JACK MINI-PWR THRU-RA 2,1ID/5.5OD 5A ROHS	DIGI-KEY	SWITCHCRAFT
95	UX60-MB-5ST	1	USBIN	H2959CT	JACK USB MINIB SMT-RA 5PIN ROHS	DIGI-KEY	HIROSE

SWITCHES

ITEM	MANU PART NUM	QTY	REF DESIGNATORS	VENDOR PART NUM	DESCRIPTION	VENDOR	MANU
96	TL1015AF160QG	10	Mute, RESET, VolDn, VolUp, UsbMode, Shutdown, SpdifMode, Surround0, Surround1, AnalogMode	EG4344CT	SWITCH, MOM, 160G SMT 4X3MM ROHS	DIGI-KEY	E-SWITCH

STANDOFFS AND HARDWARE

ITEM	MANU PART NUM	QTY	REF DESIGNATORS	VENDOR PART NUM	DESCRIPTION	VENDOR	MANU
97	8401	10	NA	8401K	STANDOFF 4-40 0.5 in x 0.25 in ALUM HEX M-F	DIGI-KEY	KEYSTONE ELECTRONICS
98	PMS 440 0025 PH	10	NA	H342	4-40 SCREW, STEEL 0.250 IN	DIGI-KEY	BUILDING FASTENERS

TI-SEMICONDUCTORS

Component Count:	290					
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COMPONENTS NOT ASSEMBLED

C82, GND, JP1, JP2, OSC, R64, R75, R96, R99, R102, +24V

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