

Designed by: <b>JTA Design</b>		Ver: <b>1</b>	Code:	Parts list: <b>DSP56371 Test Board</b>	Original by: JTA 20.4.2008 Updated by:
ITEM	REFERENCE	QTY	CODE	DESCRIPTION	MANUFACTURER / SUPPLIER
1	B1	1	ELFA: 74-521-13	6.000 MHz CRYSTAL 30pF 50PPM HC49/HSMX	
2	C1-15 C28 C46 C56 C58-59 C64-65 C72 C76 C80-106 C116 C130 C151-152 C154-155 C157-159 C161 C163 C167-169 C199	66	ELFA: 65-758-49 FARNELL: 722236	CER CAPACITOR 10n 10% 50V X7R 0603	
3	C16-17	2	ELFA: 65-751-04 FARNELL: 498555	CER CAPACITOR 33p 5% 50v NP0/C0G 0603	
4	C18-22 C24-27 C35-38 C42-45 C112-115 C126-129 C139-150 C170 C177-196	58	FARNELL: 1288255	CER CAPACITOR 100n 10% 50V X7R 0603	
5	C23 C41 C60 C111 C125 C156	6	FARNELL: 1462436	CER CAPACITOR 1µ 25V X7R 1206	
6	C29 C31-32 C34 C47 C49-50 C52 C117 C119-120 C122 C131 C133-134 C136	16	FARNELL: 3019524	CER CAPACITOR 560p 5% 50V NP0/C0G 0603	
7	C30 C33 C48 C51 C118 C121 C132 C135	8	FARNELL: 718592	CER CAPACITOR 1n8 5% 50V NP0 1206	
8	C39-40 C53-54 C123-124 C137-138	8	ELFA: 65-752-29	CER CAPACITOR 100p 5% 50V NP0/C0G 0603	
9	C55 C66	2	ELFA: 67-237-46	POSCAP 330µ 6.3V 20% 105°C D-CASE	
10	C57	1	ELFA: 67-229-79	TH EL. CAP 470µ 35V 20% 105°C LOW ESR R5 D10	
11	C61 C68-69 C71 C73 C75 C77 C79	8	FARNELL: 1288264	CER CAPACITOR 10µ 10V X7R 1206	
12	C62-63 C109-110	4	ELFA: 67-200-64	OSCON 100µ 20% 20V R5 D10	SANYO: 20SA100M
13	C67 C153 C160 C162 C164	5	FARNELL: 1358552	CER CAPACITOR 100µ 20% 6.3V X5R/X7R 1206	
14	C70 C74	2	FARNELL: 8819947	CER CAPACITOR 2n2 5% 50V NP0/C0G	
15	C78	1	FARNELL: 3019652	CER CAPACITOR 820p 10% 50V X7R 0603	
16	C107-108	2	FARNELL: 1108327	CER CAPACITOR 47µ 6.3V X5R 1210	KEMET: C1210C476M9PAC
17	C165	1	FARNELL: 8820180	CER CAPACITOR 22n 5% 50V NP0/C0G 1206	
18	C166	1	FARNELL: 317202	CER CAPACITOR 1n 5% 50V NP0/C0G 0603	
19	C171-172	2	ELFA: 65-782-80 FARNELL: 718610	CER CAPACITOR 2n7 5% 50V NP0 1206	PHYCOMP: 2238 863 15272
20	C173-176	4	ELFA: 65-753-85	CER CAPACITOR 470p 5% 50V NP0/C0G 0603	
21	C197-198	2	ELFA: 65-683-07 FARNELL: 1200749	TH POLYESTER CAP 4µ7 10% 63V R15 W7	EPCOS: B32522C0475K
22	D1	1		DSPB56371 DIGITAL SIGNAL PROCESSOR 24 BIT 180 MHZ TQFP80	FREESCALE: DSPB56371AF180
23	D2	1	FARNELL: 1172226	MSP430F169 MCU 8 MHZ 60K FLASH 2K RAM QFP64	TI: MSP430F169IPM
24	D3	1		EP2C8 ALTERA CYCLONE II FPGA 8K LE SPEED 7 TQFP144	ALTERA: EP2C8T144C7N
25	D4	1		EPCS4 ALTERA FPGA AS CONFIGURATION MEMORY 4MBIT SO8	ALTERA: EPCS4SI8N
26	D5	1	FARNELL: 1105918	74AHC1G08 SINGLE GATE AND SOT23-5	
27	D6	1	FARNELL: 1455014 ELFA: 73-933-66	I2C EEPROM 512kBIT 3.3V SO8	ATMEL: AT24C512BN-SH-B ST: M24512-WMW6
29	G1-2	2	FARNELL: 9713492	CRYSTAL OSCILLATOR 12.288 MHz 50PPM 3.3V SMD 5x7mm	
30	L1-8 L10 L13 L16-23	18	ELFA: 58-605-31	CHOKE 600R @ 100 MHz 0603	

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31	L9	1		POWER INDUCTOR 68µH IRMS 0.87A ISAT 0.95A	WÜRTH: 744777168 COILTRONICS: DR74-680-R
32	L11-12 L14-15	4		SMD POWER INDUCTOR 100uH IRMS 2.2A ISAT 2.4A	WÜRTH: 74477020 COILTRONICS: DR127-101-R
33	N1	1	ELFA: 9725490 FARNELL: 73-323-31	MAX3232 RS232 TRANSCEIVER 2RX 2TX SO16	MAXIM: MAX3232CSE+ TI: MAX3232CPWG4
34	N2 N5 N13 N16	4		PCM1793 24 BIT 192 kHz VOLTAGE OUTPUT AUDIO DAC SSOP28	TI: PCM1793DB
35	N3-4 N6-7 N14-15 N18-19 N29-30	10	FARNELL: 1206935	OPA2134 DUAL FET OPAMP SO8	TI: OPA2134UA
36	N8	1	ELFA: 73-068-73 FARNELL: 9489746	SIMPLE SWITCHER 260kHz STEP-DOWN REG 5V 1A SO8	NATIONAL: LM2675M-5.0/NOPB
37	N9	1		MAX743 DUAL OUTPUT SWITCHING REGULATOR SO16W	MAXIM: MAX743CWE
38	N10	1	ELFA: 73-266-60 FARNELL: 9488537	LM317L ADJUSTABLE VOLTAGE REGULATOR 100mA SO8	NATIONAL: LM317LM
39	N11-12 N17	3	FARNELL: 1286784	LP3878-ADJ CERCAP STABLE ADJUSTABLE LDO REGULATOR 800 mA PSOP-8	NATIONAL: LP3878MR-ADJ/NOPB
40	N20	1		CS8416 192 kHz DIGITAL AUDIO INTERFACE RECEIVER SO28	CIRRUS: CS8416-CSZ
41	N21	1		CS5381 24BIT 192kHz AUDIO AD CONVERTER SO24	CIRRUS: CS5381-KS
42	N22	1	FARNELL: 9603840	AD8519 SINGLE RRO 8 MHz OPAMP SO8	ADI: AD8519ARZ
43	N23-24	2	FARNELL: 8467463	OPA1632 FULL DIFFERENTIAL OPAMP MSOP8-PowerPad	TI: OPA1632DGN
44	N25-28	4		PGA2320 STEREO VOLUME CONTROL SO16W	TI: PGA2320IDW
45	R1 R37 R74-77 R79-82	10	ELFA: 60-444-24 FARNELL: 9238301	RESISTOR 33R 1% 100PPM 50V 63mW 0603	
46	R2 R7-8 R13 R16 R21-22 R27 R35 R39 R45-46 R51 R54 R59-60 R65 R113	18	ELFA: 60-449-03 FARNELL: 9238549	RESISTOR 3k3 1% 100PPM 50V 63mW 0603	
47	R3 R6 R9 R12 R17 R20 R23 R26 R40 R44 R47 R50 R55 R58 R61 R64	16	ELFA: 60-448-46 FARNELL: 9238514	RESISTOR 1k8 1% 100PPM 50V 63mW 0603	
48	R4-5 R10-11 R18-19 R24-25 R32-33 R41 R43 R48-49 R56-57 R62-63 R97-100 R112	23	ELFA: 60-447-47 FARNELL: 9238468	RESISTOR 680R 1% 100PPM 50V 63mW 0603	
49	R14-15 R28-29 R52-53 R66 R73 R93-96 R109- 110	14	ELFA: 60-445-49 FARNELL: 9238360	RESISTOR 100R 1% 100PPM 50V 63mW 0603	
50	R30	1	ELFA: 60-450-82 FARNELL: 9238638	RESISTOR 18k 1% 100PPM 50V 63mW 0603	
51	R31	1	ELFA: 60-446-22 FARNELL: 9238409	RESISTOR 220R 1% 100PPM 50V 63mW 0603	
52	R34	1	FARNELL: 9238530	RESISTOR 2k7 1% 100PPM 50V 63mW 0603	
53	R36	1	ELFA: 60-451-40 FARNELL: 9238662	RESISTOR 33k 1% 100PPM 50V 63mW 0603	
54	R38	1	ELFA: 60-448-20 FARNELL: 9233407	RESISTOR 1k5 100PPM 50V 63mW 0603	
55	R42 R70-71 R101-104 R115-118 R123-125 R127 133	21	ELFA: 60-447-88 FARNELL: 9238484	RESISTOR 1k 1% 100PPM 50V 63mW 0603	

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56	R67-69 R72 R83-84	6	ELFA: 60-450-25 FARNELL: 9238603	RESISTOR 10k 1% 100PPM 50V 63mW 0603	
57	R78	1	ELFA: 60-448-95 FARNELL: 9330976	RESISTOR 3k0 1% 100PPM 50V 63mW 0603	
58	R85-92	8	FARNELL: 9238425	RESISTOR 330R 1% 100PPM 50V 63mW 0603	
59	R105-108	4	ELFA: 60-452-64 FARNELL: 9238727	RESISTOR 100k 1% 100PPM 50V 63mW 0603	
60	R111 R114 R126	3	ELFA: 60-449-45 FARNELL: 9238565	RESISTOR 4k7 1% 100PPM 50V 63mW 0603	
61	R119-122	4	ELFA: 60-451-81 FARNELL: 9233580	RESISTOR 47k 1% 100PPM 50V 63mW 0603	
62	V1-5 V17	6	FARNELL: 3939960	MBRS140T3 SCHOTTKY RECTIFIER 40V 1A SMB (DO-214AA)	ONSEMI: MBRS140T FAIRCHILD: MBRS140
63	V6	1	ELFA: 75-360-14	TORX173 TOSLINK SPDIF OPTICAL RECEIVER MODULE	TOSHIBA: TORX173
64	V7-14	8	FARNELL: 8554617	SMD LED 20mA GREEN 1206	AVAGO: HSMG-C191
65	V15-16	2	ELFA: 70-300-75 FARNELL: 9843612	DIODE DUAL BAV99 75V 215mA SOT23	
66	X1 X6	2		PINHEADER 7X2 R=2.54	
67	X2	1	ELFA: 44-163-50 FARNELL: 1075161	D-CONN 9-PIN FEMALE ANGLE PCB SOLDER	
68	X3	1		CONNECTOR PHOENIX 2 PIN MPT 0,5/2-2,54	PHOENIX: MPT 0,5/2-2,54
69	X4-5	2		PINHEADER 5X2 R=2.54	
70	X7-16	10	FARNELL: 1248990	SMA CONNECTOR PCB	
71	X17	1		PINHEADER 5	