

K2/K3 "POLKA" AUDIO

K2/K3 PROTO

CHANGE LIST (CHANGES FROM M72/M78)

- 6AUG07
- 1. REPLACED MAX9722 WITH MAX9724
- 2. PER 1 ABOVE, DELETED GROUND FEEDBACK NET FROM LO CONNECTOR PAGE
- 29AUG07
- 3. ALTERNATE PART NUMBER FOR CAPACITOR REMOVED FROM PAGE 62 (CAP NO LONGER USED)
- 4. REPLACED J6701, J6702, J6704 WITH PROPER SYMBOL AND REMOVED "OMIT" LABEL
- 5. CLEANED UP ALTERNATE TABLE ON PAGE 99 FOR DUAL FET
- 6. DELETED OMIT TABLE FOR CONNECTORS LISTED IN CHANGE 4 AS IT IS UNNEEDED
- 30AUG07
- 7. COPIED IPHONE HEADSET SUPPORT CIRCUITRY FROM LENG'S M88 PROJECT AND ADDED TO PAGE99.
- 31AUG07
- 8. ADDED EMC FERRITE BEADS AND STATIC ZAPS TO OUTGOING HS MIC LEADS
- 4SEP07
- 9. CHANGED J9900 FROM 20 TO 22 PINS FOR IPHONE HS SUPPORT
- 5SEP07
- 10. CONNECTED IPHS MIC HIGH SIGNAL TO PIN 3 OF SUPERJACK ACCORDING TO HANK CHING, ALSO ATTACHED IPHS MIC LOW SIGNAL TO AUDIO GROUND AT THE CONNECTOR.
- 3OCT07
- 11. TABLED IN IMAC SUPERJACK (514-0499) AS THE SYMBOL IS NOT READY.
- 1NOV07
- 12. REMOVED TABLE FOR SUPERJACK.
- 13. NO STUFFED TRANSISTORS AND VARIOUS RCS TO ELIMINATE SUPPORT FOR SUPERJACK.
- 8NOV07
- 14. REMOVED NO TEST PROPERTIES FOR AUD_BI_PORT_B_R, AUD_VREF_PORT_B, AUD_SPDIFO_GND.
- 12NOV07
- 15. CHANGED C6818 TO 8200PF FROM 1000PF TO ELIMINATE SPKR AMP SWITCHING ARTIFACTS.
- 9JAN08
- 16. ADDED 1UF ALTERNATE FOR LI CAPS.

AUDIO: CODEC

SYNC_MASTER=AUDIO SYNC_DATE=08/04/2006

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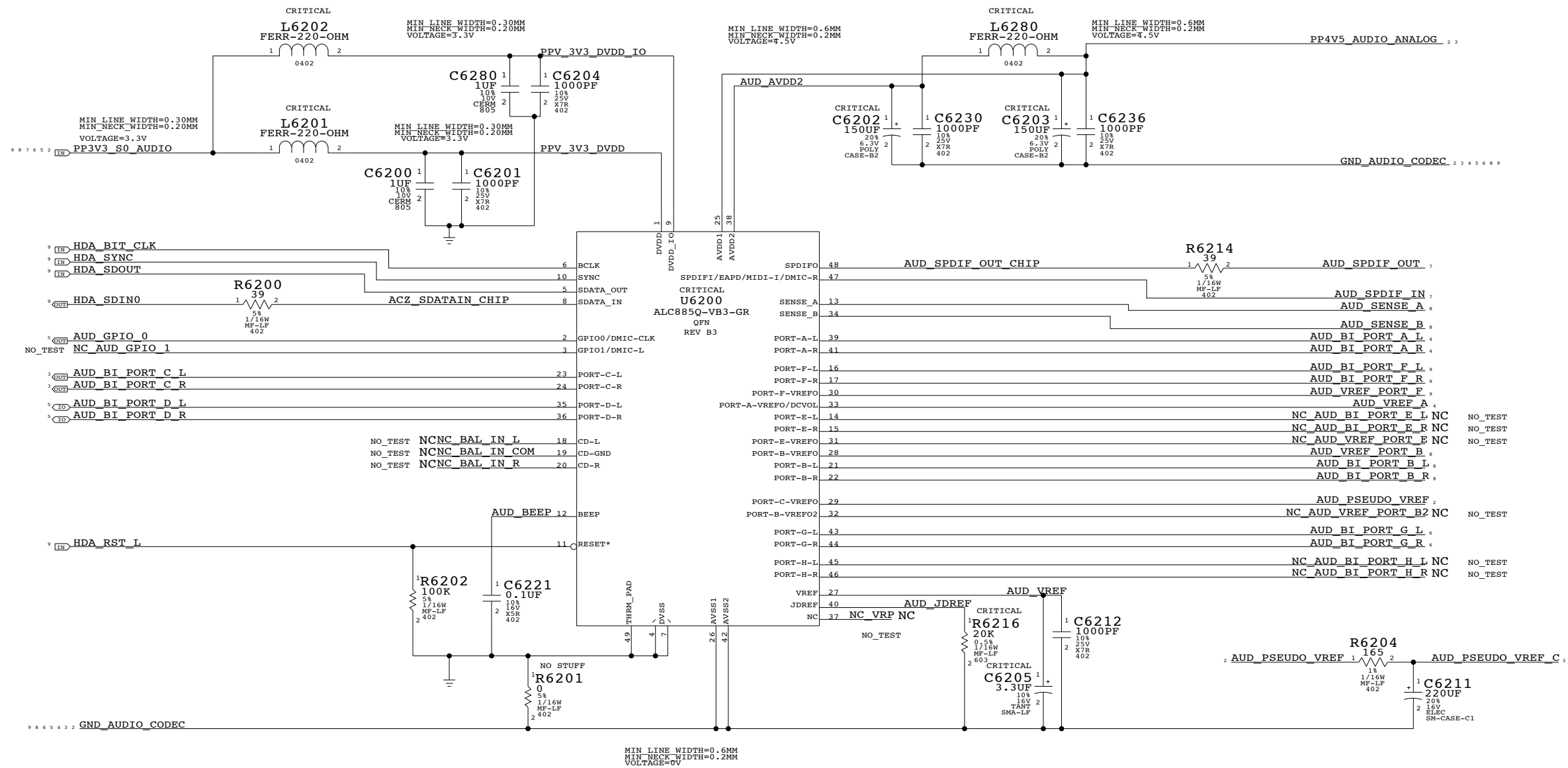
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APPLE INC.

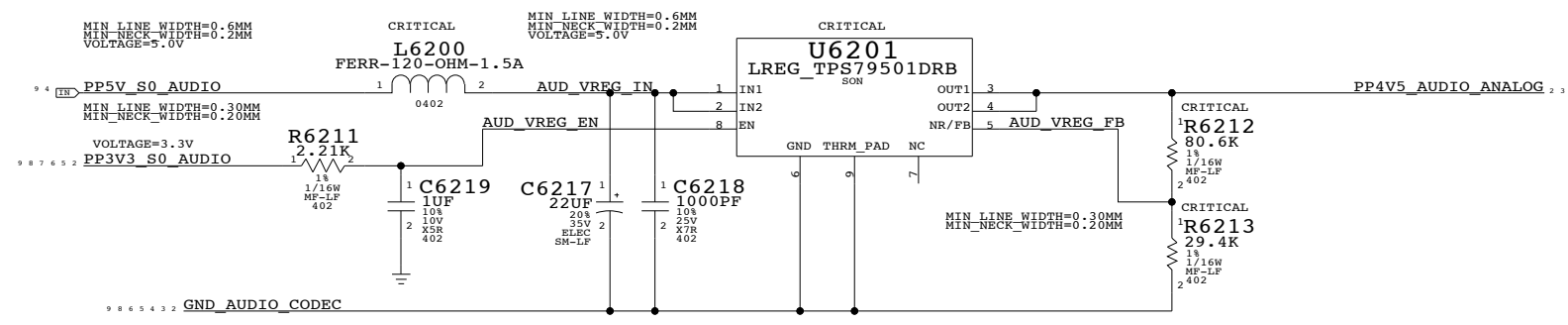
SIZE	DRAWING NUMBER	REV.
D	051-7487	0.1.0
SCALE	SHT	OF
NONE	1	11

AUDIO CODEC APPLE P/N 353S1538



4.5V POWER SUPPLY FOR CODEC AND LINE IN AMP
 $V_{OUT} = 1.2246 \times (1 + (80.6K/29.4K)) = 4.58V$

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
820-2299	1	PCB, FAB, AUDIO, K2/K3	MLB1		



AUDIO: CODEC
 SYNC_MASTER=AUDIO SYNC_DATE=08/04/2006
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	D	051-7487	0.1.0
SCALE	SHT	OF	REV.
NONE	2	11	

8

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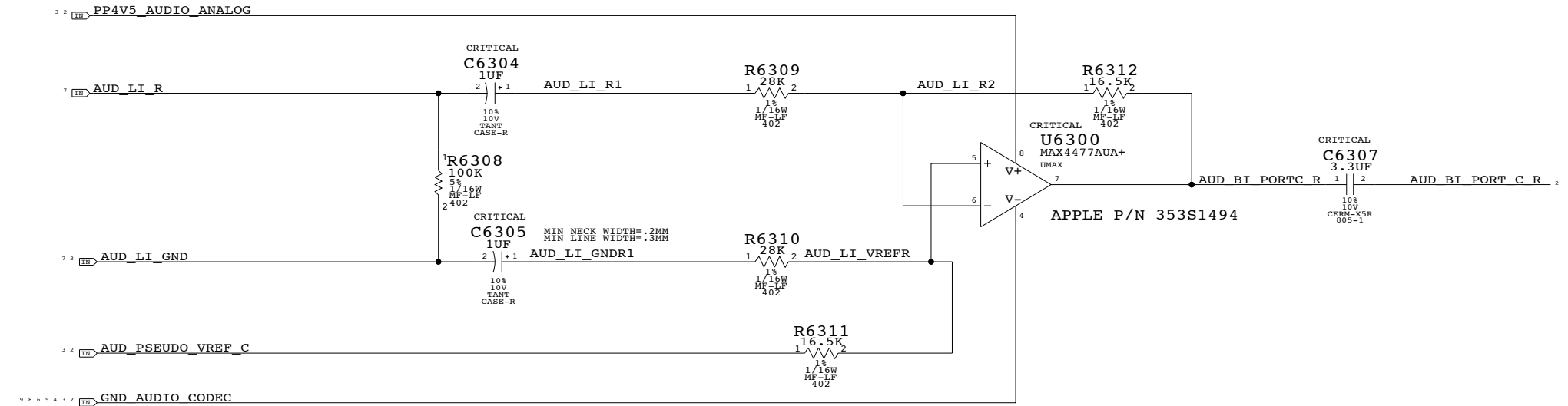
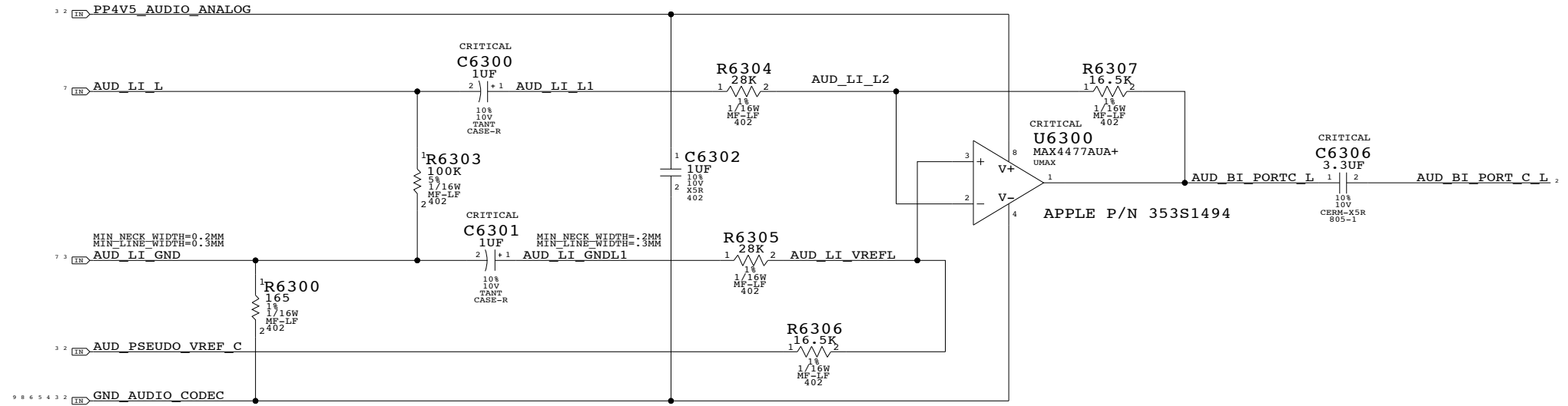
3

2

1

LINE IN PSEUDO-DIFFERENTIAL AMP

AV = 0.59
FC = 5.7 HZ



AUDIO: LINE INPUT AMP

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SCALE	SHT 3 OF 11		
NONE			

8

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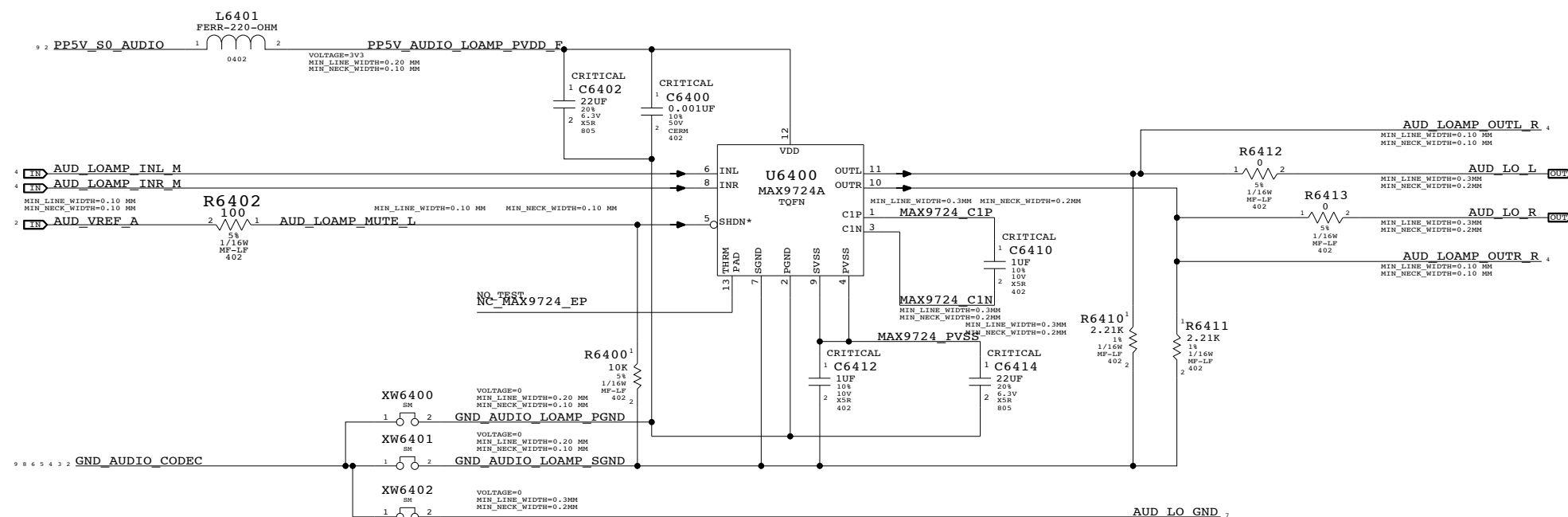
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3

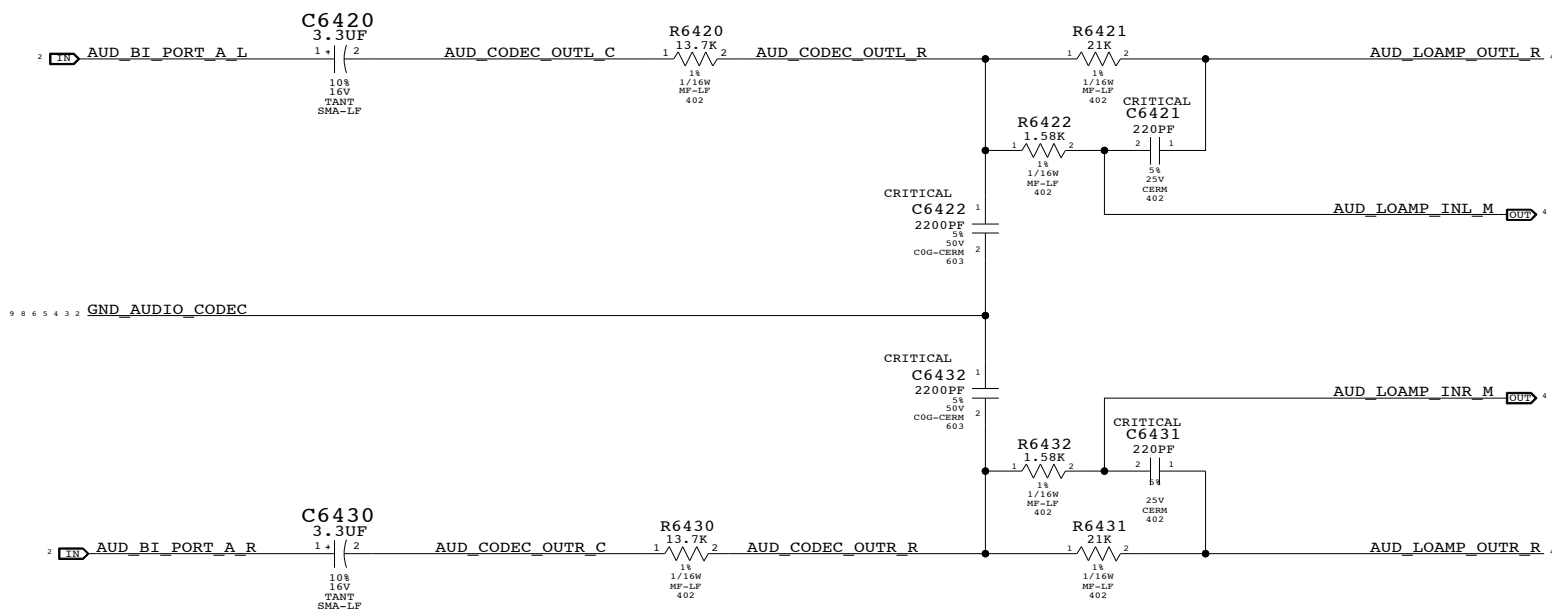
2

1

LINE OUT AMPLIFIER (MAX9724A)
 APN:353S1637
 VOLTAGE GAIN:1.53, 3.69DB



2nd Order DAC Filter
 HP:3.52HZ LP:39KHZ



AUDIO: HEADPHONES AMP

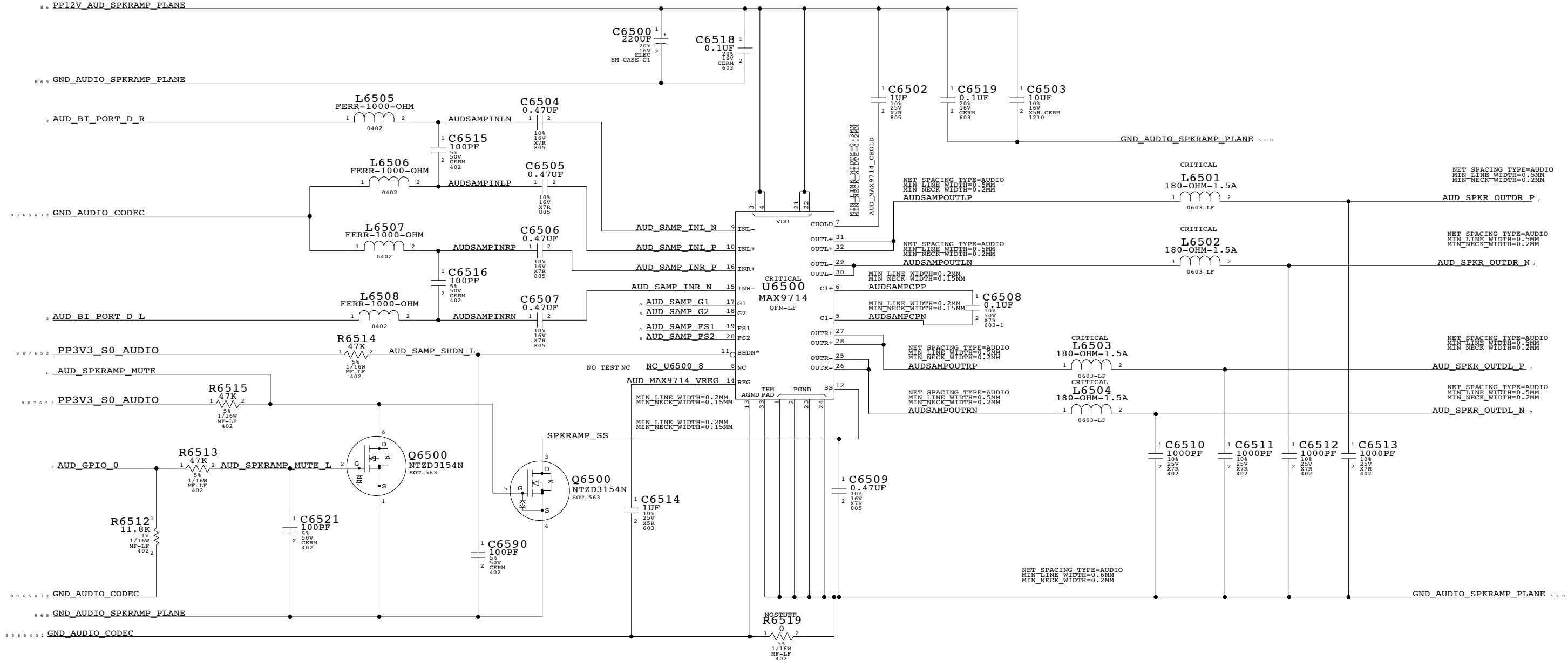
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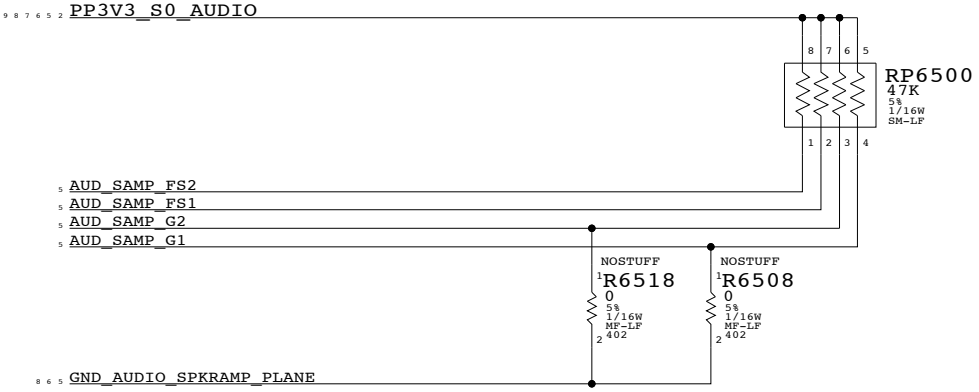
APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7487	0.1.0
SCALE	SHT	OF	REV.
NONE	4	11	

SPEAKER AMP
APPLE P/N 353S1156

NET SPACING TYPE=AUDIO
MIN_LINE_WIDTH=0.6MM
MIN_NECK_WIDTH=0.2MM
VOLTAGE=12V

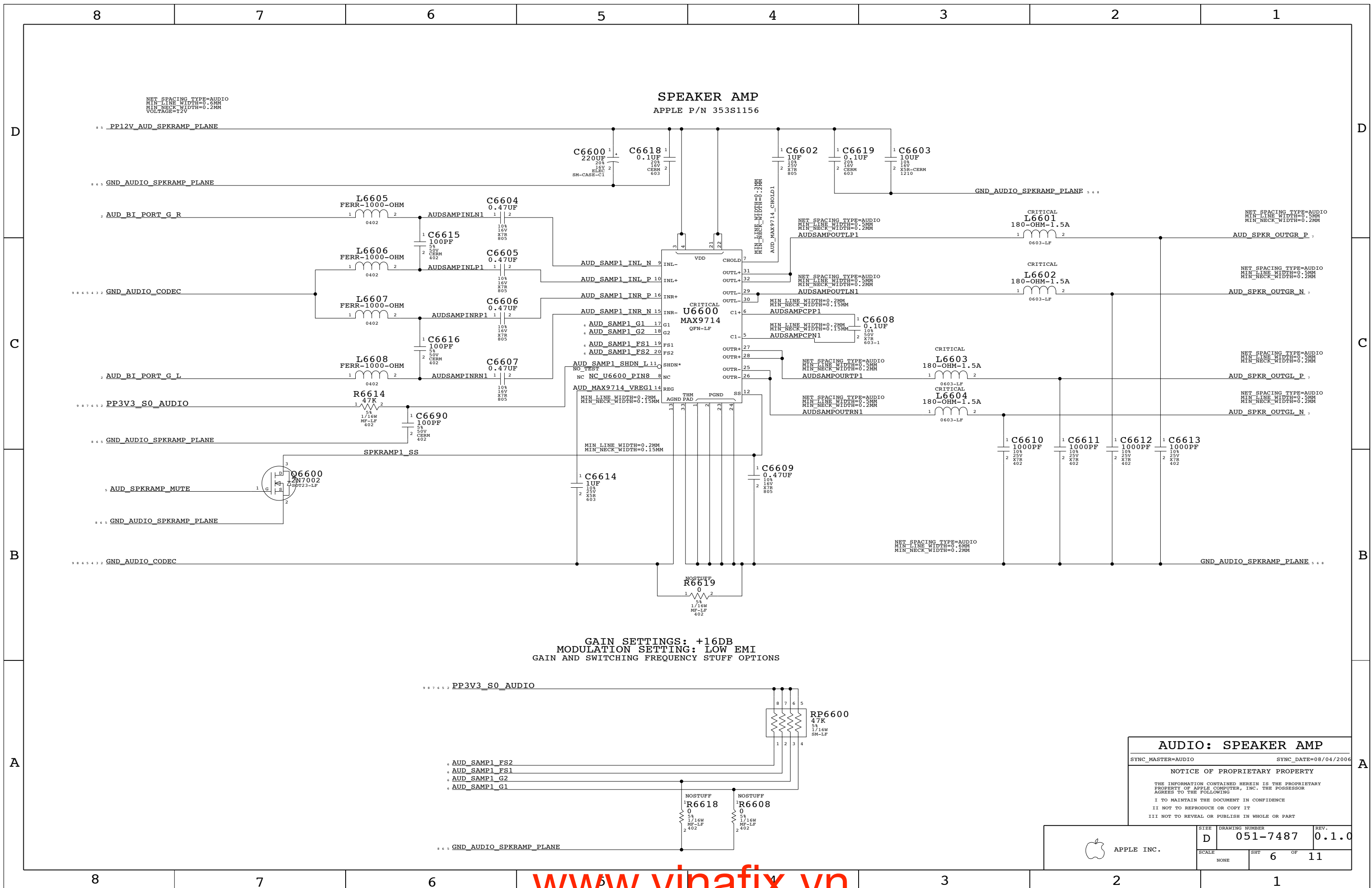


GAIN SETTINGS: +16DB
MODULATION SETTING: LOW EMI
GAIN AND SWITCHING FREQUENCY STUFF OPTIONS



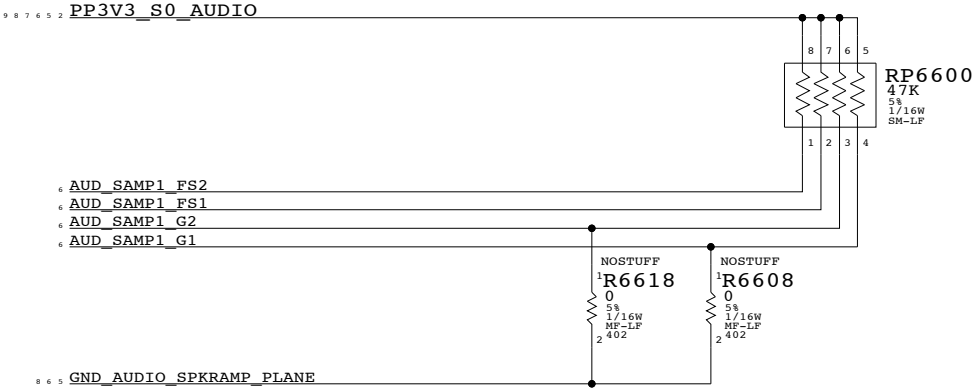
AUDIO: SPEAKER AMP_1
SYNC_MASTER=AUDIO SYNC_DATE=08/04/2006
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SCALE	SHT	OF	
NONE	5	11	



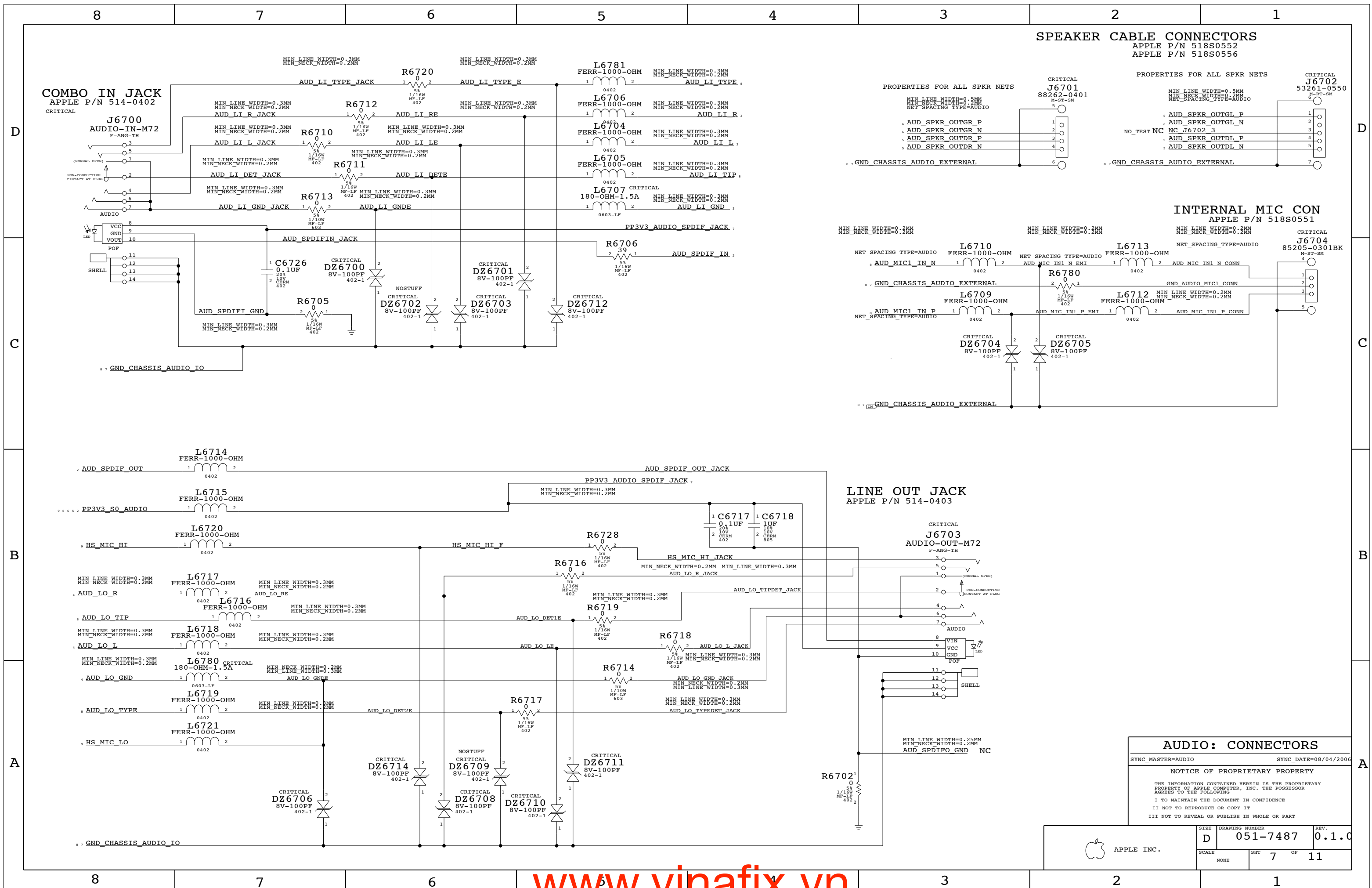
SPEAKER AMP
APPLE P/N 353S1156

GAIN SETTINGS: +16DB
MODULATION SETTING: LOW EMI
GAIN AND SWITCHING FREQUENCY STUFF OPTIONS



AUDIO: SPEAKER AMP
 SYNC_MASTER=AUDIO SYNC_DATE=08/04/2006
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SCALE	SHT	OF	REV.
NONE	6	11	



SPEAKER CABLE CONNECTORS
 APPLE P/N 518S0552
 APPLE P/N 518S0556

PROPERTIES FOR ALL SPKR NETS
 MIN LINE WIDTH=0.5MM
 MIN_NECK_WIDTH=0.2MM
 NET_SPACING_TYPE=AUDIO

PROPERTIES FOR ALL SPKR NETS
 MIN LINE WIDTH=0.5MM
 MIN_NECK_WIDTH=0.2MM
 NET_SPACING_TYPE=AUDIO

CRITICAL
J6701
 88262-0401
 M-ST-SM

CRITICAL
J6702
 53261-0550
 M-ST-SM

INTERNAL MIC CON
 APPLE P/N 518S0551

MIN LINE WIDTH=0.2MM
 MIN_NECK_WIDTH=0.2MM

MIN LINE WIDTH=0.2MM
 MIN_NECK_WIDTH=0.2MM

MIN LINE WIDTH=0.2MM
 MIN_NECK_WIDTH=0.2MM

CRITICAL
J6704
 85205-0301BK
 M-ST-SM

LINE OUT JACK
 APPLE P/N 514-0403

CRITICAL
J6703
 AUDIO-OUT-M72
 F-ANG-TH

AUDIO: CONNECTORS

SYNC_MASTER=AUDIO SYNC_DATE=08/04/2006

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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7487	0.1.0
SCALE	SHT	7	OF 11
NONE			

CODEC OUTPUT SIGNAL PATHS

FUNCTION	VOLUME	DAC	PIN COMPLEX	MUTE CONTROL	DET ASSIGNMENT
HEADPHONES	0X0D(13)	0X03	0X15(21)(PORT A)	VREF A	0X15(21)(PORT A)
SPKR AMP(M72/M78)	0X0C(12)	0X02	0X14(20)(PORT D)	GPIO 0	N/A
SPKR AMP(M72/M78)	0X0E(14)	0X04	0X16(22)(PORT G)	GPIO 0	N/A
SPDIFOUT		CONVERTER=0X06	PIN=0X1E(30)		PIN 0X1B(27)(PORT E)
		DETECT DELEGATE PIN	0X1B(27)(PORT E)		

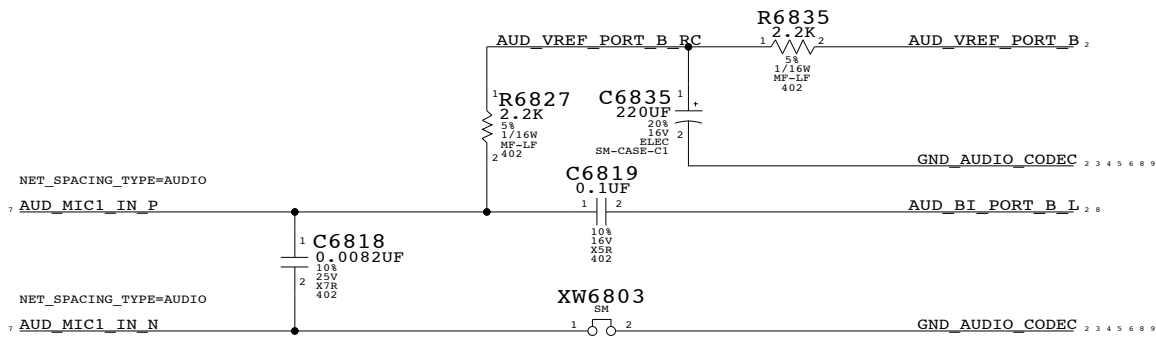
CODEC INPUT SIGNAL PATHS

FUNCTION	ADC	MIXER	PORT	VREF	DET ASSIGNMENT
MIC (BUILT IN)	0X07	0X24(36)	0X18(24)(PORT B)	80%	N/A
MIC (HEADSET)	0X07	0X24(36)	0X19(25)(PORT F)	80%	0X19(25)(PORT F)
LINE INPUT	0X08	0X23(35)	0X1A(26)(PORT C)	50%	0X1A(26)(PORT C)
SPDIFIN	CONVERTER=0X0A(10)		PIN=0X1F(31)		N/A

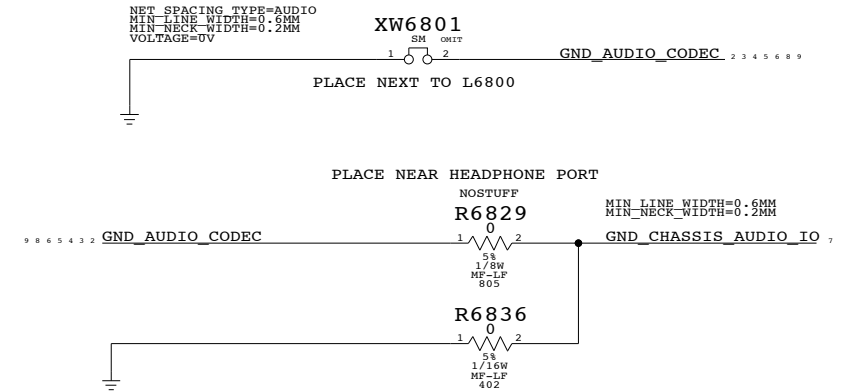
OPTIONAL RESISTOR TO COMBINE L/R SIGNALS FOR MONO MIC



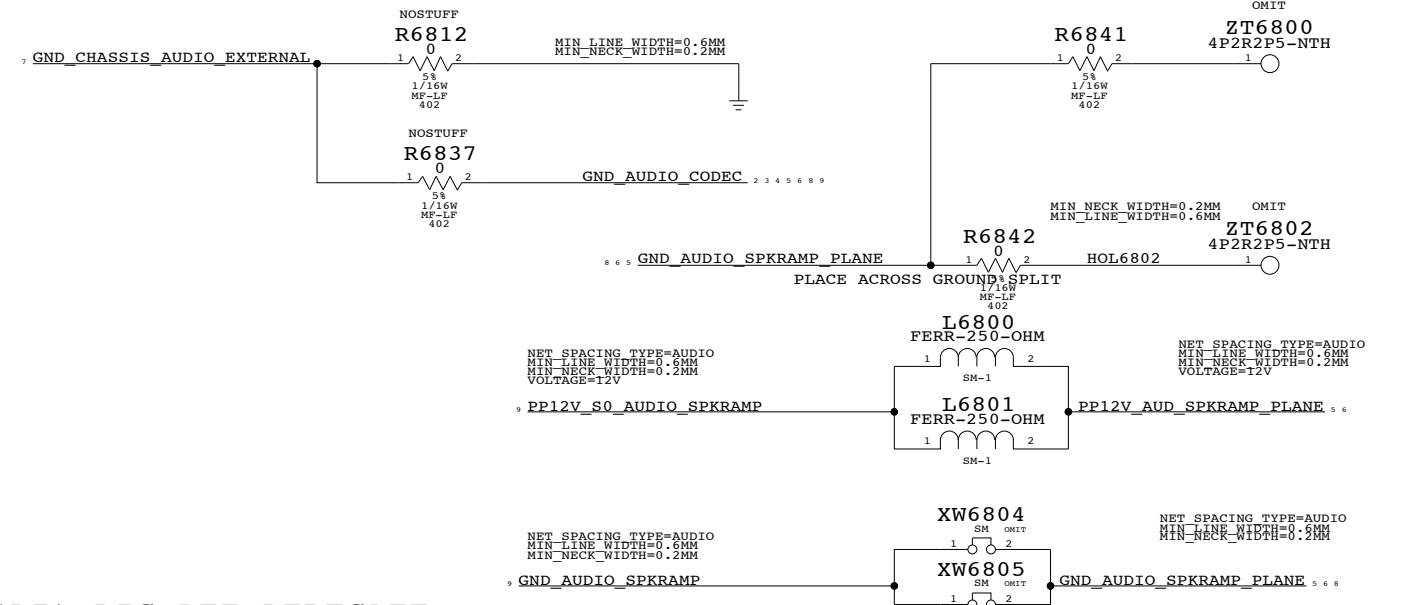
MICROPHONE IMPEDANCE MATCHING CIRCUIT



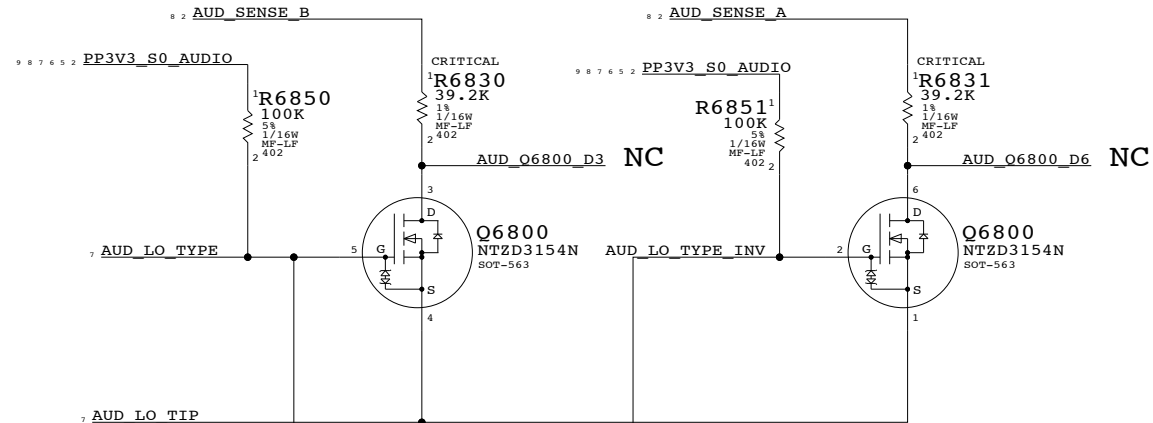
AUDIO GROUND RETURNS



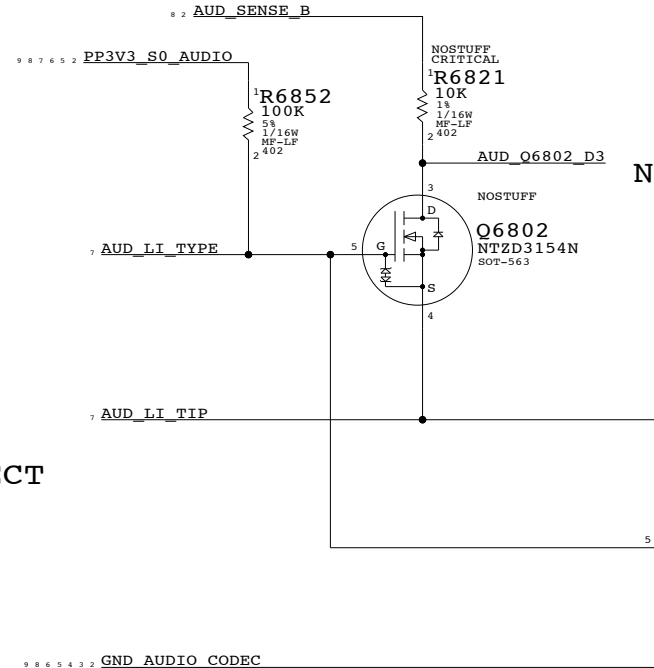
AUDIO MTG HOLES



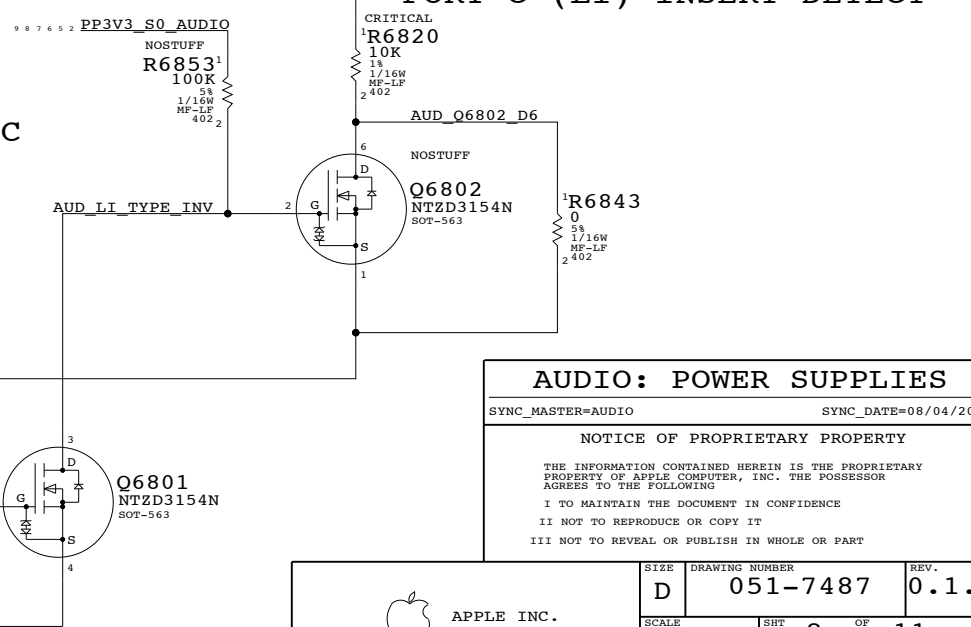
PORT A DIGITAL OUT DETECT DELEGATE



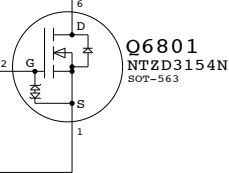
PORT G (DI) DIG DET DELEGATE



PORT C (LI) INSERT DETECT



PORT A (HP) PLUG DETECT



AUDIO: POWER SUPPLIES

SYNC_MASTER=AUDIO SYNC_DATE=08/04/2006
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	D	051-7487	0.1.0
SCALE	SHT	OF	REV.
NONE	8	11	

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1

D

D

C

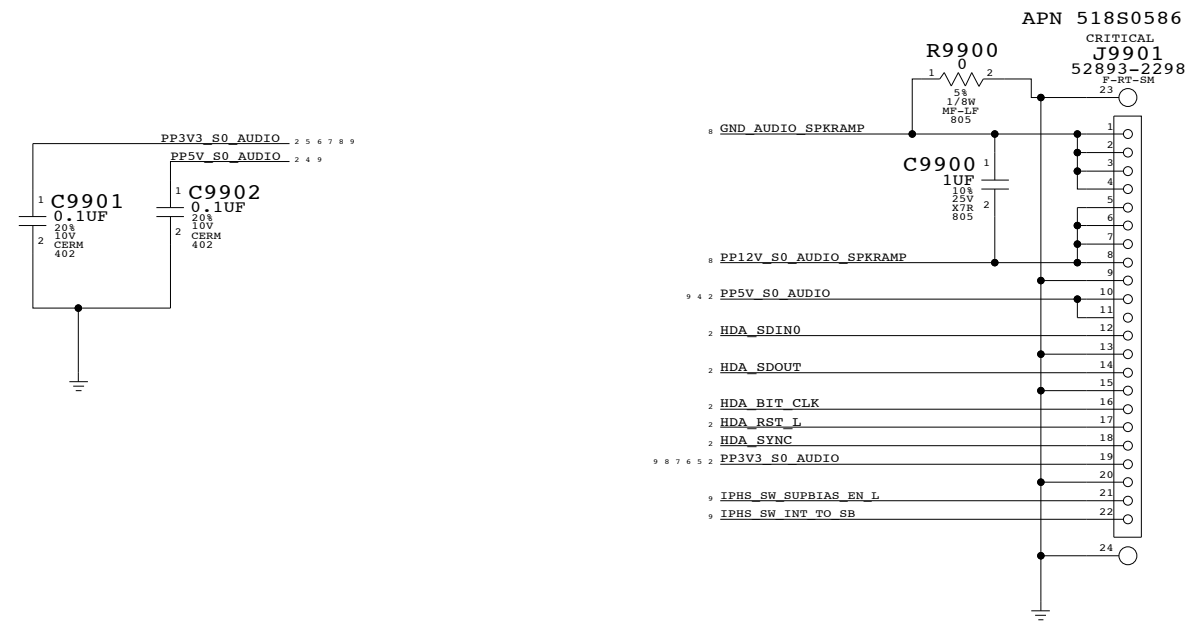
C

B

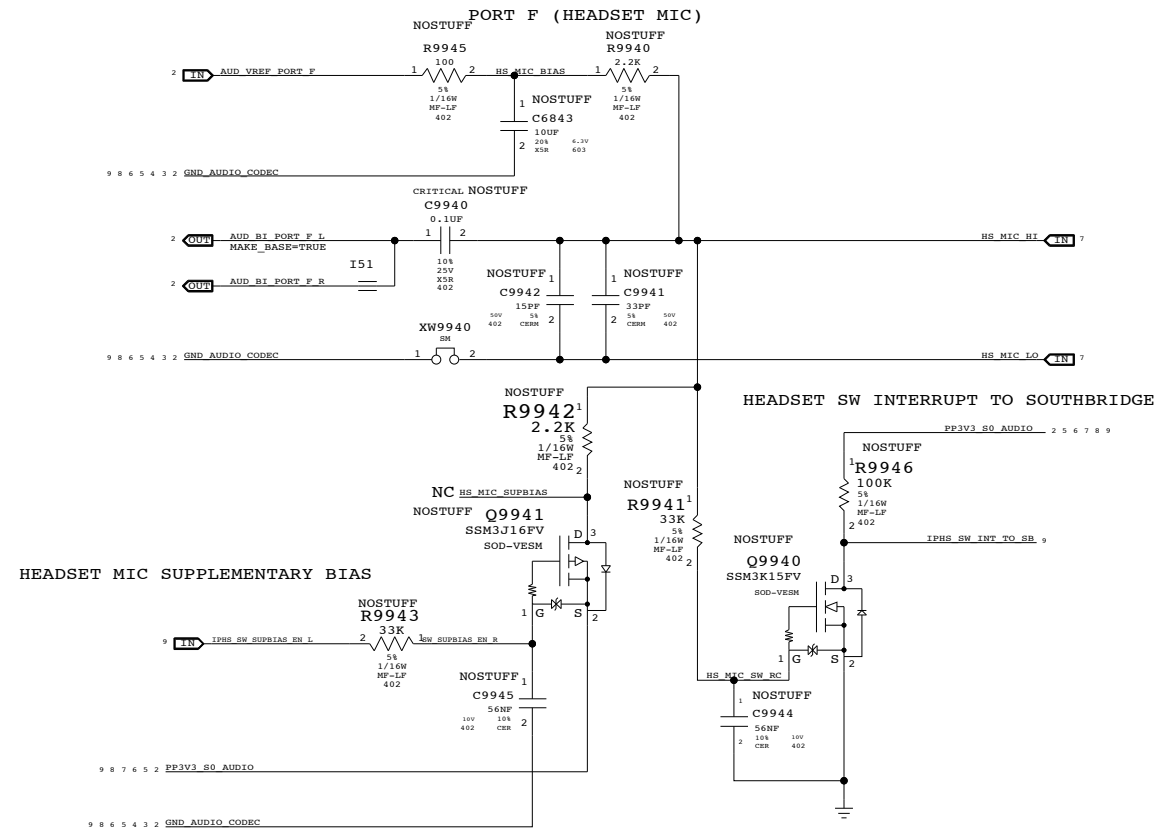
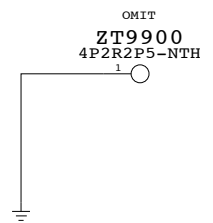
B

A

A



PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
376S0568	376S0422		ALL	SILICONIX DUAL FET
127S0091	127S0050		C6300	CAP,TANT,1UF CASE R



AUDIO: MLB CONNECTOR
 SYNC_MASTER=DEREK SYNC_DATE=10/10/2006
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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7487	0.1.0
SCALE	SHT	OF	11
NONE	9		

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1

	8	7	6	5	4	3	2	1	
D	Title: Basenet Report	AUD_LI_RE	AUD_LI_RE -	7D6	AUD_SAMP_INR_P	AUD_SAMP_INR_P -	5C5		
	Design: polka_audio	AUD_LI_R_JACK	@polka_audio.lib.POLKA_AUDIO	7D7	AUD_SAMP_SHDN_L	@polka_audio.lib.POLKA_AUDIO	5C6		
	Date: Oct 3 16:36:42 2007	AUD_LI_TIP	@polka_audio.lib.POLKA_AUDIO	7D4 8A5	AUD_SENSE_A	@polka_audio.lib.POLKA_AUDIO	2C2 8B3 8B6		
	Base nets and synonyms for polka_audio.lib.POLKA_AUDIO(@polka_audio.lib.polka_audio(sch_1))	AUD_LI_TYPE	@polka_audio.lib.POLKA_AUDIO	7D4 8A5	AUD_SENSE_B	@polka_audio.lib.POLKA_AUDIO	2C2 8B4 8B8		
	Base Signal Synonyms Location((Zone) dir))	AUD_LI_TYPE_E	@polka_audio.lib.POLKA_AUDIO	7D6	AUD_SPDIFIN_JACK	@polka_audio.lib.POLKA_AUDIO	7C7		
	ACZ_SDATIN_CHIP	ACZ_SDATIN_CHIP -	2C6	AUD_LI_TYPE_INV	AUD_LI_TYPE_INV -	8A3	AUD_SPDIFI_GND	AUD_SPDIFI_GND -	7C7
	AUDSAMP_CPN	@polka_audio.lib.POLKA_AUDIO	5C4	AUD_LI_TYPE_JACK	@polka_audio.lib.POLKA_AUDIO	7D7	AUD_SPDIFO_GND	@polka_audio.lib.POLKA_AUDIO	7A3
	AUDSAMP_CPN1	AUDSAMP_CPN1 -	6C4	AUD_LI_VREFL	AUD_LI_VREFL -	3C4	AUD_SPDIF_IN	@polka_audio.lib.POLKA_AUDIO	2C2 7C4
	AUDSAMP_CPN2	@polka_audio.lib.POLKA_AUDIO	5C4	AUD_LI_VREFR	AUD_LI_VREFR -	3B4	AUD_SPDIF_OUT	@polka_audio.lib.POLKA_AUDIO	2C2 7B8
	AUDSAMP_CPN3	AUDSAMP_CPN3 -	6C4	AUD_LOAMP_INL_M	@polka_audio.lib.POLKA_AUDIO	4B3 4D7	AUD_SPDIF_OUT_CHIP	@polka_audio.lib.POLKA_AUDIO	2C4
	AUDSAMP_CPN4	@polka_audio.lib.POLKA_AUDIO	5D6	AUD_LOAMP_INR_M	@polka_audio.lib.POLKA_AUDIO	4B3 4D7	AUD_SPKRAMP_MUTE	@polka_audio.lib.POLKA_AUDIO	5C8 6B8
	AUDSAMP_CPN5	AUDSAMP_CPN5 -	6D6	AUD_LOAMP_MUTE_L	@polka_audio.lib.POLKA_AUDIO	4D6	AUD_SPKRAMP_MUTE_L	@polka_audio.lib.POLKA_AUDIO	5B7
	AUDSAMP_CPN6	@polka_audio.lib.POLKA_AUDIO	5C6	AUD_LOAMP_OUTL_R	@polka_audio.lib.POLKA_AUDIO	4B3 4D2	AUD_SPKR_OUTDL_N	@polka_audio.lib.POLKA_AUDIO	5C1 7D2
	AUDSAMP_CPN7	AUDSAMP_CPN7 -	6C4	AUD_LOAMP_OUTR_R	@polka_audio.lib.POLKA_AUDIO	4A3 4C2	AUD_SPKR_OUTDL_P	@polka_audio.lib.POLKA_AUDIO	5C1 7D2
	AUDSAMP_CPN8	@polka_audio.lib.POLKA_AUDIO	5D6	AUD_LO_DET1E	AUD_LO_DET1E -	7B6	AUD_SPKR_OUTDR_N	AUD_SPKR_OUTDR_N -	5C1 7D3
	AUDSAMP_CPN9	AUDSAMP_CPN9 -	6C6	AUD_LO_DET2E	@polka_audio.lib.POLKA_AUDIO	7A6	AUD_SPKR_OUTDR_P	AUD_SPKR_OUTDR_P -	5C1 7D3
	AUDSAMP_CPN10	@polka_audio.lib.POLKA_AUDIO	5C6	AUD_LO_GND	AUD_LO_GND -	4C3 7A8	AUD_SPKR_OUTG_L	@polka_audio.lib.POLKA_AUDIO	6C1 7D2
	AUDSAMP_CPN11	AUDSAMP_CPN11 -	6C6	AUD_LO_GNDE	@polka_audio.lib.POLKA_AUDIO	7A7	AUD_SPKR_OUTGL_P	@polka_audio.lib.POLKA_AUDIO	6C1 7D3
	AUDSAMP_CPN12	@polka_audio.lib.POLKA_AUDIO	5C6	AUD_LO_GND_JACK	AUD_LO_GND_JACK -	7A5	AUD_SPKR_OUTGR_N	@polka_audio.lib.POLKA_AUDIO	6C1 7D3
	AUDSAMP_CPN13	AUDSAMP_CPN13 -	6C4	AUD_LO_L	AUD_LO_L -	4D2 7A8	AUD_SPKR_OUTGR_P	@polka_audio.lib.POLKA_AUDIO	6C1 7D3
	AUDSAMP_CPN14	@polka_audio.lib.POLKA_AUDIO	5C4	AUD_LO_LE	@polka_audio.lib.POLKA_AUDIO	7A5	AUD_VREF	@polka_audio.lib.POLKA_AUDIO	2B4
	AUDSAMP_CPN15	AUDSAMP_CPN15 -	6C4	AUD_LO_L_JACK	@polka_audio.lib.POLKA_AUDIO	7A4	AUD_VREF_A	@polka_audio.lib.POLKA_AUDIO	2C2 4D7
	AUDSAMP_CPN16	@polka_audio.lib.POLKA_AUDIO	5C4	AUD_LO_R	AUD_LO_R -	4D2 7B8	AUD_VREF_PORT_B	@polka_audio.lib.POLKA_AUDIO	2C2 8C5
	AUDSAMP_CPN17	AUDSAMP_CPN17 -	6C4	AUD_LO_RE	@polka_audio.lib.POLKA_AUDIO	7B7	AUD_VREF_PORT_B_RC	AUD_VREF_PORT_B_RC -	8C7
	AUDSAMP_CPN18	@polka_audio.lib.POLKA_AUDIO	5C4	AUD_LO_R_JACK	AUD_LO_R_JACK -	7B5	AUD_VREF_PORT_F	@polka_audio.lib.POLKA_AUDIO	2C2 9B6
AUDSAMP_CPN19	AUDSAMP_CPN19 -	6C4	AUD_LO_TIP	@polka_audio.lib.POLKA_AUDIO	7B8 8A8	AUD_VREG_EN	AUD_VREG_EN -	2A6	
AUDSAMP_CPN20	@polka_audio.lib.POLKA_AUDIO	5C4	AUD_LO_TIPDET_JACK	AUD_LO_TIPDET_JACK -	7B4	AUD_VREG_FB	@polka_audio.lib.POLKA_AUDIO	2A4	
AUDSAMP_CPN21	AUDSAMP_CPN21 -	6C4	AUD_LO_TYPE	@polka_audio.lib.POLKA_AUDIO	7A8 8A8	AUD_VREG_IN	AUD_VREG_IN -	2A6	
AUDSAMP_CPN22	@polka_audio.lib.POLKA_AUDIO	5C4	AUD_LO_TYPERDET_JACK	AUD_LO_TYPERDET_JACK -	7A5	GND_AUDIO_CODEC	GND_AUDIO_CODEC -	2A7 2B8 2D2 3A7 3C7 4B7 4C7 5B8 588 5C8 6B8 6C8 8A5 8A8 8B5 8B5 8C2 8D1 8D3 9A6 9B6 9B6 9C5 4C5	
AUDSAMP_CPN23	AUDSAMP_CPN23 -	6C4	AUD_LO_TYPE_INV	@polka_audio.lib.POLKA_AUDIO	8A6	GND_AUDIO_LOAMP_PGND	GND_AUDIO_LOAMP_PGND -	4C5	
AUDSAMP_CPN24	@polka_audio.lib.POLKA_AUDIO	5C4	AUD_MAX9714_CHOLD	AUD_MAX9714_CHOLD -	5C4	GND_AUDIO_LOAMP_SGND	GND_AUDIO_LOAMP_SGND -	4C5	
AUDSAMP_CPN25	AUDSAMP_CPN25 -	6C4	AUD_MAX9714_CHOLD1	AUD_MAX9714_CHOLD1 -	6C4	GND_AUDIO_MIC1_CONN	GND_AUDIO_MIC1_CONN -	7C1	
AUDSAMP_CPN26	@polka_audio.lib.POLKA_AUDIO	5C5	AUD_MAX9714_VREG	AUD_MAX9714_VREG -	5C5	GND_AUDIO_SPKRAMP	GND_AUDIO_SPKRAMP -	8B3 9D5	
AUDSAMP_CPN27	AUDSAMP_CPN27 -	6C5	AUD_MAX9714_VREG1	AUD_MAX9714_VREG1 -	6C5	GND_AUDIO_SPKRAMP_PL	GND_AUDIO_SPKRAMP_PLANE -	5A6 5B1 5B8 5D2 5D8 6A6 6B1 6B8 6B8 6D2 6D8 8B1 8C3	
AUDSAMP_CPN28	@polka_audio.lib.POLKA_AUDIO	7C3 8B8	AUD_MIC1_IN_N	AUD_MIC1_IN_N -	7C3 8B8	ANE	@polka_audio.lib.POLKA_AUDIO	7C3 7C3 7D2 7D4 8C4	
AUDSAMP_CPN29	AUDSAMP_CPN29 -	7C2	AUD_MIC1_IN_P	AUD_MIC1_IN_P -	7C3 8B8	GND_CHASSIS_AUDIO_EX	GND_CHASSIS_AUDIO_EXTERNAL -	7A8 7C8 8D1	
AUDSAMP_CPN30	@polka_audio.lib.POLKA_AUDIO	7C2	AUD_MIC_IN1_N_CONN	AUD_MIC_IN1_N_CONN -	7C2	GND_CHASSIS_AUDIO_IO	@polka_audio.lib.POLKA_AUDIO	2C8 9C5	
AUDSAMP_CPN31	AUDSAMP_CPN31 -	7C2	AUD_MIC_IN1_P_CONN	AUD_MIC_IN1_P_CONN -	7C2	HDA_BIT_CLK	HDA_BIT_CLK -	2B8 9C5	
AUDSAMP_CPN32	@polka_audio.lib.POLKA_AUDIO	2B3 2C2	AUD_PSEUDO_VREF	@polka_audio.lib.POLKA_AUDIO	2B3 2C2	HDA_RST_L	HDA_RST_L -	2C8 9C5	
AUDSAMP_CPN33	AUDSAMP_CPN33 -	2B2 3A7 3C7	AUD_PSEUDO_VREF_C	@polka_audio.lib.POLKA_AUDIO	2B2 3A7 3C7	HDA_SDIN0	HDA_SDIN0 -	2C8 9C5	
AUDSAMP_CPN34	@polka_audio.lib.POLKA_AUDIO	8A6	AUD_Q6800_D3	AUD_Q6800_D3 -	8A6	HDA_SDOUT	HDA_SDOUT -	2C8 9C5	
AUDSAMP_CPN35	AUDSAMP_CPN35 -	8A5	AUD_Q6800_D6	AUD_Q6800_D6 -	8A5	HDA_SYNC	HDA_SYNC -	2C8 9C5	
AUDSAMP_CPN36	@polka_audio.lib.POLKA_AUDIO	8B3	AUD_Q6802_D3	AUD_Q6802_D3 -	8B3	HOL6802	HOL6802 -	8C2	
AUDSAMP_CPN37	AUDSAMP_CPN37 -	8B2	AUD_Q6802_D6	AUD_Q6802_D6 -	8B2	HS_MIC_BIAS	@polka_audio.lib.POLKA_AUDIO	9B5	
AUDSAMP_CPN38	@polka_audio.lib.POLKA_AUDIO	6A6 6C5	AUD_SAMP1_FS1	AUD_SAMP1_FS1 -	6A6 6C5	HS_MIC_HI	@polka_audio.lib.POLKA_AUDIO	7B8 9B3	
AUDSAMP_CPN39	AUDSAMP_CPN39 -	6A6 6C5	AUD_SAMP1_FS2	AUD_SAMP1_FS2 -	6A6 6C5	HS_MIC_HI_F	HS_MIC_HI_F -	7B6	
AUDSAMP_CPN40	@polka_audio.lib.POLKA_AUDIO	6A6 6C5	AUD_SAMP1_G1	AUD_SAMP1_G1 -	6A6 6C5	HS_MIC_HI_JACK	HS_MIC_HI_JACK -	7B5	
AUDSAMP_CPN41	AUDSAMP_CPN41 -	6A6 6C5	AUD_SAMP1_G2	@polka_audio.lib.POLKA_AUDIO	6A6 6C5	HS_MIC_LO	HS_MIC_LO -	7A8 9B3	
AUDSAMP_CPN42	@polka_audio.lib.POLKA_AUDIO	6C5	AUD_SAMP1_INL_N	@polka_audio.lib.POLKA_AUDIO	6C5	HS_MIC_SUPBIAS	HS_MIC_SUPBIAS -	9A5	
AUDSAMP_CPN43	AUDSAMP_CPN43 -	6C5	AUD_SAMP1_INL_P	@polka_audio.lib.POLKA_AUDIO	6C5	HS_MIC_SW_RC	HS_MIC_SW_RC -	9A4	
AUDSAMP_CPN44	@polka_audio.lib.POLKA_AUDIO	6C5	AUD_SAMP1_INR_N	@polka_audio.lib.POLKA_AUDIO	6C5	IPHS_SW_INT_TO_SB	IPHS_SW_INT_TO_SB -	9A3 9C5	
AUDSAMP_CPN45	AUDSAMP_CPN45 -	6C5	AUD_SAMP1_INR_P	@polka_audio.lib.POLKA_AUDIO	6C5	IPHS_SW_SUPBIAS_EN_L	IPHS_SW_SUPBIAS_EN_L -	9A6 9C5	
AUDSAMP_CPN46	@polka_audio.lib.POLKA_AUDIO	6C5	AUD_SAMP1_SHDN_L	AUD_SAMP1_SHDN_L -	6C5	MAX9724_C1N	MAX9724_C1N -	4C4	
AUDSAMP_CPN47	AUDSAMP_CPN47 -	5A6 5C5	AUD_SAMP_FS1	AUD_SAMP_FS1 -	5A6 5C5	MAX9724_C1P	@polka_audio.lib.POLKA_AUDIO	4D4	
AUDSAMP_CPN48	@polka_audio.lib.POLKA_AUDIO	5A6 5C5	AUD_SAMP_FS2	AUD_SAMP_FS2 -	5A6 5C5	MAX9724_C1VSS	@polka_audio.lib.POLKA_AUDIO	4C4	
AUDSAMP_CPN49	AUDSAMP_CPN49 -	5A6 5C5	AUD_SAMP_G1	@polka_audio.lib.POLKA_AUDIO	5A6 5C5	NC_AUD_BI_PORT_E_L	NC_AUD_BI_PORT_E_L -	2C2	
AUDSAMP_CPN50	@polka_audio.lib.POLKA_AUDIO	5A6 5C5	AUD_SAMP_G2	@polka_audio.lib.POLKA_AUDIO	5A6 5C5	NC_AUD_BI_PORT_E_R	NC_AUD_BI_PORT_E_R -	2C2	
AUDSAMP_CPN51	AUDSAMP_CPN51 -	5C5	AUD_SAMP_INL_N	@polka_audio.lib.POLKA_AUDIO	5C5	NC_AUD_BI_PORT_H_L	NC_AUD_BI_PORT_H_L -	2B2	
AUDSAMP_CPN52	@polka_audio.lib.POLKA_AUDIO	5C5	AUD_SAMP_INL_P	@polka_audio.lib.POLKA_AUDIO	5C5	NC_AUD_BI_PORT_H_R	NC_AUD_BI_PORT_H_R -	2B2	
AUDSAMP_CPN53	AUDSAMP_CPN53 -	5C5	AUD_SAMP_INR_N	@polka_audio.lib.POLKA_AUDIO	5C5	NC_AUD_GPIO_1	NC_AUD_GPIO_1 -	2C8	
AUDSAMP_CPN54	@polka_audio.lib.POLKA_AUDIO	5C5	AUD_SAMP_INR_P	@polka_audio.lib.POLKA_AUDIO	5C5	NC_AUD_VREF_PORT_B2	NC_AUD_VREF_PORT_B2 -	2C2	
AUDSAMP_CPN55	AUDSAMP_CPN55 -	2C2	AUD_VREF	@polka_audio.lib.POLKA_AUDIO	2B4				
AUDSAMP_CPN56	@polka_audio.lib.POLKA_AUDIO	2C2 4D7	AUD_VREF_A	@polka_audio.lib.POLKA_AUDIO	2C2 4D7				
AUDSAMP_CPN57	AUDSAMP_CPN57 -	8C7	AUD_VREF_PORT_B	@polka_audio.lib.POLKA_AUDIO	8C7				
AUDSAMP_CPN58	@polka_audio.lib.POLKA_AUDIO	2C2 9B6	AUD_VREF_PORT_F	@polka_audio.lib.POLKA_AUDIO	2C2 9B6				
AUDSAMP_CPN59	AUDSAMP_CPN59 -	2A4	AUD_VREG_EN	AUD_VREG_EN -	2A6				
AUDSAMP_CPN60	@polka_audio.lib.POLKA_AUDIO	2A6	AUD_VREG_FB	@polka_audio.lib.POLKA_AUDIO	2A4				
AUDSAMP_CPN61	AUDSAMP_CPN61 -	2A6	AUD_VREG_IN	AUD_VREG_IN -	2A6				
AUDSAMP_CPN62	@polka_audio.lib.POLKA_AUDIO	2A7 2B8 2D2 3A7 3C7 4B7 4C7 5B8 588 5C8 6B8 6C8 8A5 8A8 8B5 8B5 8C2 8D1 8D3 9A6 9B6 9B6 9C5 4C5	GND_AUDIO_CODEC	GND_AUDIO_CODEC -	2A7 2B8 2D2 3A7 3C7 4B7 4C7 5B8 588 5C8 6B8 6C8 8A5 8A8 8B5 8B5 8C2 8D1 8D3 9A6 9B6 9B6 9C5 4C5				
AUDSAMP_CPN63	AUDSAMP_CPN63 -	4C5	GND_AUDIO_LOAMP_PGND	GND_AUDIO_LOAMP_PGND -	4C5				
AUDSAMP_CPN64	@polka_audio.lib.POLKA_AUDIO	4C5	GND_AUDIO_LOAMP_SGND	GND_AUDIO_LOAMP_SGND -	4C5				
AUDSAMP_CPN65	AUDSAMP_CPN65 -	7C1	GND_AUDIO_MIC1_CONN	GND_AUDIO_MIC1_CONN -	7C1				
AUDSAMP_CPN66	@polka_audio.lib.POLKA_AUDIO	8B3 9D5	GND_AUDIO_SPKRAMP	GND_AUDIO_SPKRAMP -	8B3 9D5				
AUDSAMP_CPN67	AUDSAMP_CPN67 -	5A6 5B1 5B8 5D2 5D8 6A6 6B1 6B8 6B8 6D2 6D8 8B1 8C3	GND_AUDIO_SPKRAMP_PL	GND_AUDIO_SPKRAMP_PLANE -	5A6 5B1 5B8 5D2 5D8 6A6 6B1 6B8 6B8 6D2 6D8 8B1 8C3				
AUDSAMP_CPN68	@polka_audio.lib.POLKA_AUDIO	7C3 7C3 7D2 7D4 8C4	ANE	@polka_audio.lib.POLKA_AUDIO	7C3 7C3 7D2 7D4 8C4				
AUDSAMP_CPN69	AUDSAMP_CPN69 -	7A8 7C8 8D1	GND_CHASSIS_AUDIO_EX	GND_CHASSIS_AUDIO_EXTERNAL -	7A8 7C8 8D1				
AUDSAMP_CPN70	@polka_audio.lib.POLKA_AUDIO	2C8 9C5	GND_CHASSIS_AUDIO_IO	@polka_audio.lib.POLKA_AUDIO	2C8 9C5				
AUDSAMP_CPN71	AUDSAMP_CPN71 -	2B8 9C5	HDA_BIT_CLK	HDA_BIT_CLK -	2B8 9C5				
AUDSAMP_CPN72	@polka_audio.lib.POLKA_AUDIO	2C8 9C5	HDA_RST_L	HDA_RST_L -	2C8 9C5				
AUDSAMP_CPN73	AUDSAMP_CPN73 -	2C8 9C5	HDA_SDIN0	HDA_SDIN0 -	2C8 9C5				
AUDSAMP_CPN74	@polka_audio.lib.POLKA_AUDIO	2C8 9C5	HDA_SDOUT	HDA_SDOUT -	2C8 9C5				
AUDSAMP_CPN75	AUDSAMP_CPN75 -	2C8 9C5	HDA_SYNC	HDA_SYNC -	2C8 9C5				
AUDSAMP_CPN76	@polka_audio.lib.POLKA_AUDIO	8C2	HOL6802	HOL6802 -	8C2				
AUDSAMP_CPN77	AUDSAMP_CPN77 -	9B5	HS_MIC_BIAS	@polka_audio.lib.POLKA_AUDIO	9B5				
AUDSAMP_CPN78	@polka_audio.lib.POLKA_AUDIO	7B8 9B3	HS_MIC_HI	@polka_audio.lib.POLKA_AUDIO	7B8 9B3				
AUDSAMP_CPN79	AUDSAMP_CPN79 -	7B6	HS_MIC_HI_F	HS_MIC_HI_F -	7B6				
AUDSAMP_CPN80	@polka_audio.lib.POLKA_AUDIO	7B5	HS_MIC_HI_JACK	HS_MIC_HI_JACK -	7B5				
AUDSAMP_CPN81	AUDSAMP_CPN81 -	7A8 9B3	HS_MIC_LO	HS_MIC_LO -	7A8 9B3				
AUDSAMP_CPN82	@polka_audio.lib.POLKA_AUDIO	9A5	HS_MIC_SUPBIAS	HS_MIC_SUPBIAS -	9A5				
AUDSAMP_CPN83	AUDSAMP_CPN83 -	9A4	HS_MIC_SW_RC	HS_MIC_SW_RC -	9A4				
AUDSAMP_CPN84	@polka_audio.lib.POLKA_AUDIO	9A3 9C5	IPHS_SW_INT_TO_SB	IPHS_SW_INT_TO_SB -	9A3 9C5				
AUDSAMP_CPN85	AUDSAMP_CPN85 -	9A6 9C5	IPHS_SW_SUPBIAS_EN_L	IPHS_SW_SUPBIAS_EN_L -	9A6 9C5				
AUDSAMP_CPN86	@polka_audio.lib.POLKA_AUDIO	4C4	MAX9724_C1N	MAX9724_C1N -	4C4				
AUDSAMP_CPN87	AUDSAMP_CPN87 -	4D4	MAX9724_C1P	@polka_audio.lib.POLKA_AUDIO	4D4				
AUDSAMP_CPN88	@polka_audio.lib.POLKA_AUDIO	4C4	MAX9724_C1VSS	@polka_audio.lib.POLKA_AUDIO	4C4				
AUDSAMP_CPN89	AUDSAMP_CPN89 -	2C2	NC_AUD_BI_PORT_E_L	NC_AUD_BI_PORT_E_L -	2C2				
AUDSAMP_CPN90	@polka_audio.lib.POLKA_AUDIO	2C2	NC_AUD_BI_PORT_E_R	NC_AUD_BI_PORT_E_R -	2C2				
AUDSAMP_CPN91	AUDSAMP_CPN91 -	2B2	NC_AUD_BI_PORT_H_L	NC_AUD_BI_PORT_H_L -	2B2				
AUDSAMP_CPN92	@polka_audio.lib.POLKA_AUDIO	2B2	NC_AUD_BI_PORT_H_R	NC_AUD_BI_PORT_H_R -	2B2				
AUDSAMP_CPN93	AUDSAMP_CPN93 -	2C8	NC_AUD_GPIO_1	NC_AUD_GPIO_1 -	2C8				
AUDSAMP_CPN94	@polka_audio.lib.POLKA_AUDIO	2C2	NC_AUD_VREF_PORT_B2	NC_AUD_VREF_PORT_B2 -	2C2				
AUDSAMP_CPN95	AUDSAMP_CPN95 -	2C2	NC_AUD_VREF_PORT_E	NC_AUD_VREF_PORT_E -	2C2				
AUDSAMP_CPN96	@polka_audio.lib.POLKA_AUDIO	2C6	NC_BAL_IN_COM	NC_BAL_IN_COM -	2C6				
AUDSAMP_CPN97	AUDSAMP_CPN97 -	2C6	NC_BAL_IN_L	NC_BAL_IN_L -	2C6				
AUDSAMP_CPN98	@polka_audio.lib.POLKA_AUDIO	2C6	NC_BAL_IN_R	NC_BAL_IN_R -	2C6				
AUDSAMP_CPN99	AUDSAMP_CPN99 -	7D2	NC_J6702_3	NC_J6702_3 -	7D2				
AUDSAMP_CPN100	@polka_audio.lib.POLKA_AUDIO	4C5	NC_MAX9724_EP	NC_MAX9724_EP -	4C5				
AUDSAMP_CPN101	AUDSAMP_CPN101 -	5C5	NC_U6500_8	@polka_audio.lib.POLKA_AUDIO	5C5				
AUDSAMP_CPN102	@polka_audio.lib.POLKA_AUDIO	6C5	NC_U6600_PIN8	NC_U6600_PIN8 -	6C5				
AUDSAMP_CPN103	AUDSAMP_CPN103 -	2B4	NC_VRP	NC_VRP -	2B4				
AUDSAMP_CPN104	@polka_audio.lib.POLKA_AUDIO	7B4 7C4	PP3V3_AUDIO_SPDIF_JA	PP3V3_AUDIO_SPDIF_JACK -	7B4 7C4				
AUDSAMP_CPN105	AUDSAMP_CPN105 -	2A7 2D8 5A6 5C8 5C8 6A6 6C8 7B8 8B3 8B5 8B6 8B8 9A3 9A6 9C5 9D6 2A3 2D2 3B7 3D7	PP3V3_S0_AUDIO	PP3V3_S0_AUDIO -	2A7				

