


# K50/51 EVT "OIDO" AUDIO

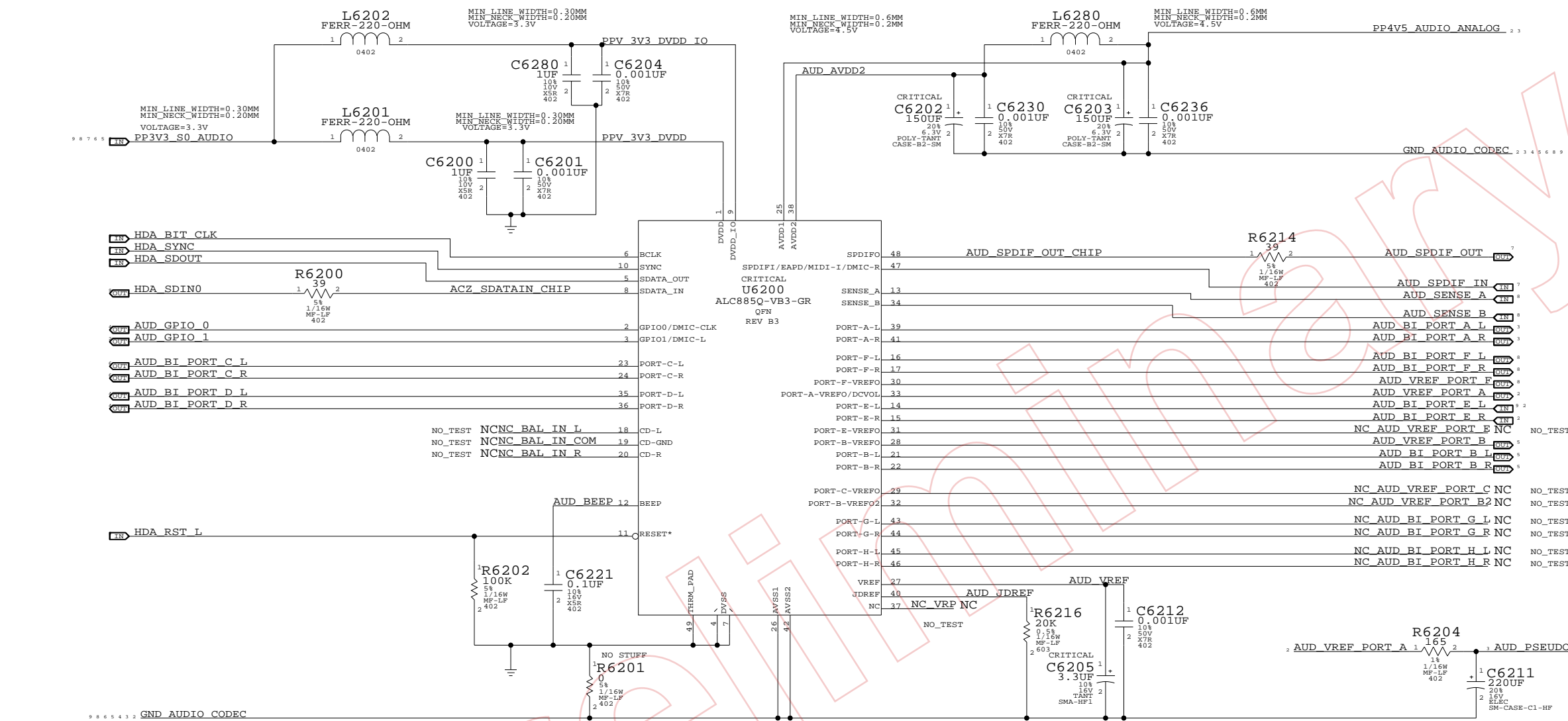
## CHANGE LIST (CHANGES FROM K2/K3)

- 4MAR08  
1. REPLACED MAX9714 WITH TPA3101D2 AMPLIFIERS (LOWER COST).
- 5MAR08  
2. REPLACED MAX4477 WITH MAX4253 (LOWER POWER)
- 17MAR08  
3. COMPLETED SPEAKER AMPLIFIER CONNECTIONS (SIMILAR TO M51 FOR R2D2 MITIGATION)  
4. CLEANED UP BOM BY KEEPING ONE STANDARD 1UF CAP ACROSS MULTIPLE LOCATIONS  
5. CHANGED TOP AND BOTTOM BULK CAPS ON MAX9724 TO 10UF (PER M88/LOWER CLICK/POP)  
6. UPDATED PORT ASSIGNMENT TABLES  
7. DELETED THE IPHS NETS GOING ACROSS THE FLEX CABLE TO THE PCB
- 18MAR08  
8. ADDED I/O PORTS  
9. FIXED CONNECTIVITY ISSUES. PATH MAPS SHOULD BE CORRECT AND MATCH AUDIOSW DATABASE ENTRY
- 19MAR08  
10. MADE THE SPEAKER MUTE SIGNAL VREF B AND THE HEADPHONES AMP MUTE SIGNAL GPIO 0  
11. CHANGED SPEAKER MUTE PULLDOWN RESISTOR TO 10K FROM 11.8K FOR BOM CONSOLIDATION.  
12. PULLED LINE INPUT AMPLIFIER MUTE UP TO VOLTAGE RAIL FOR ETERNAL ENABLE.
- 20MAR08 \*-HELD CROSS FUNCTIONAL DESIGN REVIEW-\*
- 21MAR08  
13. CHANGED NET NAME ON LEFT SIDE OF AC COUPLING CAPS ON LINE INPUT TO MATCH THE CORRECT CODEC PORT.  
14. CHANGED NET NAME ON RIGHT SIDE OF AC COUPLING CAPS ON HEADPHONES TO MATCH THE CORRECT CODEC PORT.  
15. CHANGED NET CHARACTERISTICS FOR POWER AND GROUND ON HEADPHONES AMPLIFIER.  
16. CHANGED R6422/R6432 TO 0 OHMS AND NO STUFFED THE REST OF THE 2ND ORDER HEADPHONE OUTPUT FILTER.
- 21MAR08  
17. DELETED 0 OHM RESISTORS AND UNIFIED SPEAKER AMPLIFIER GROUND PLANES (R6509/R6609)
- 21MAR08  
18. CHANGED ALL 1UF CAPS FROM 0805/25V AND 0402/10V TO 0402/16V  
19. CHANGED OUTPUT FERRITES FOR SPEAKER AMPLIFIER TO 2.5A 0603 FROM 1.5A FOR BETTER PEAK CURRENT HANDLING  
20. CHANGED PULL-UP/PULL-DOWN RESISTORS ON GAIN/MSTR/SLV\* PINS FOR AMPLIFIERS FROM 10K TO 100K (VENDOR FEEDBACK)
- 15APR08  
21. COMPLETELY INTEGRATED MIKEY (NOTE: WILL NOT WORK WITHOUT A NEW LINE OUTPUT CONNECTOR FROM ICD)  
22. CHANGED PIN-OUT OF BRD TO BRD CONNECTOR TO REFERENCE 3.3V WITH A GROUND TRACE
- 16APR08  
23. CHANGED 31 1UF CAPS FROM 0402 16V TO: 8 0603 16V, 2 0402 6.3V TANTS, AND 21 0402 10V PARTS DUE TO COST  
24. ADDED A TRANSISTOR FOR USE IF WE IMPLEMENT JACK DETECTION BASED ON A REWORKED M98 CONNECTOR (FLIPS DETECT POLARITY)
- 21APR08  
25. ADDED TWO COMPLEMENTARY PAIR TRANSISTORS FOR SPEAKER AMPLIFIER MUTE/FAULT RECOVERY  
26. MODIFIED MIKEY CIRCUIT COMPONENTS TO MATCH M98 (BIGGER BULK AND BIAS DECOUPLING CAPS/ADDITION OF 15PF CAP FOR GSM NOISE REDUCTION)
- 23APR08  
27. RE-DESIGNED MUTE AND FAULT RECOVERY CIRCUIT, REVIEWED WITH LENG, CASEY AND NATE
- 21APR08  
28. FIXED AN ERROR IN THE CIRCUIT TO USE NC HEADPHONE JACK TIP CONTACTS
- 1MAY08  
29. ADDED DRC PACKAGE MIKEY IN PLACE OF CSP PACKAGE
- 15MAY08  
30. ADDED TEST POINTED NET FOR SECOND IPHS DETECT TO PIN 26 OF J9900. NET NAME IS TP\_AUD\_IP\_PERIPHERAL\_DET  
31. CHANGED J6701/J6702/J6704 TO HF.
- 28MAY08  
32. CHANGED R6830 TO 10K FROM 39.2K FOR CORRECT S/PDIF DETECTION.
- 28MAY08  
33. CHANGED C6211,C6506,C6606,C6835 TO HF  
34. CHANGED C6503,C6505,C6524,C6525,C6603,C6605,C6624,C6625 TO HF
- 18JUNE08  
35. CHANGED C6202/C6203 TO HF  
36. CHANGED COMBO-IN CONNECTOR TO HF
- 19JUNE08  
37. CHANGED COMBO-OUT CONNECTOR TO SUPERJACK  
38. ADDED STATIC ZAP DIODE TO IP PERIPHERAL NET
- 20JUNE08  
39. CHANGED 5 PIN SPEAKER PART NUMBER FROM 518S0668 TO 516S0688 DUE TO TYPO
- 24JUNE08  
40. CHANGED COMBO-IN CONNECTOR TO 514-1590 TO MATCH SUPERJACK HEIGHT
- 11JUL08  
41. CHANGED 3 3.3UF TANT CAPS FROM 127S0062 TO 127S0108 PER RADAR 6050823
- 28JUL08  
42. CHANGED Q6803 FROM 376S0597 TO 376S0730 FOR HF PER RFA 609629  
43. REMOVED PATH MAP TABLE, WE HAVE BETTER PLACES TO KEEP THIS DATA (DATABASES/WEBSITES) AND I DO NOT WANT TO RISK ERRORS.
- 11AUG08  
44. COPIED SUPERVISORY CIRCUIT FROM K5 TO DEBOUNCE IPHONE PERIPHERAL DETECT.
- 14AUG08  
45. DELETED REDUNDANT CRITICAL BOM OPTIONS ON 1% AND 0.5% RESISTORS  
46. ADDED SW SIGNAL ROUTING TABLE BACK.
- 15AUG08  
47. ADDED NO-TEST PROPERTY TO HW\_SW\_DET.
- 22AUG08  
48. REPLACED 1000PF CAPACITORS WITH .0001UF CAPACITORS PER COMPONENT ENGINEERING OBSOLETION.  
49. CHANGED TPS3801E18 FROM APN 311S0429 TO 353S2401 PER CE
- 22AUG08  
50. CHANGED FERRITE BEADS ON LINE OUT LEFT AND RIGHT FROM 155S0137 TO 155S0138 TO LOWER THD+N WITH LOW IMPEDANCE LOADS.
- 10SEP08  
51. CHANGED R9907 FROM 10K TO 1K.
- 11SEP08  
51. NO STUFFED C9910 TO INCREASE FCAL SIGNAL AMPLITUDE.
- 12SEP08  
52. ADDED THE PROPER PCB AND SCH PART NUMBERS.
- 27OCT08  
53. CHANGED I/O CONNECTORS TO NEW HF, CHANGED STATIC ZAP DIODES TO 6.3V FROM 8V FOR BETTER STATIC PROTECTION.  
54. CHANGED BYPASS CAPACITORS TO CERAMIC FROM TANTALUM (FOUND FAILED CAP AT EVT)
- 29OCT08  
55. CHANGED C9903 FROM 138S0627 TO 138S0568 FOR VENDOR FLEXIBILITY

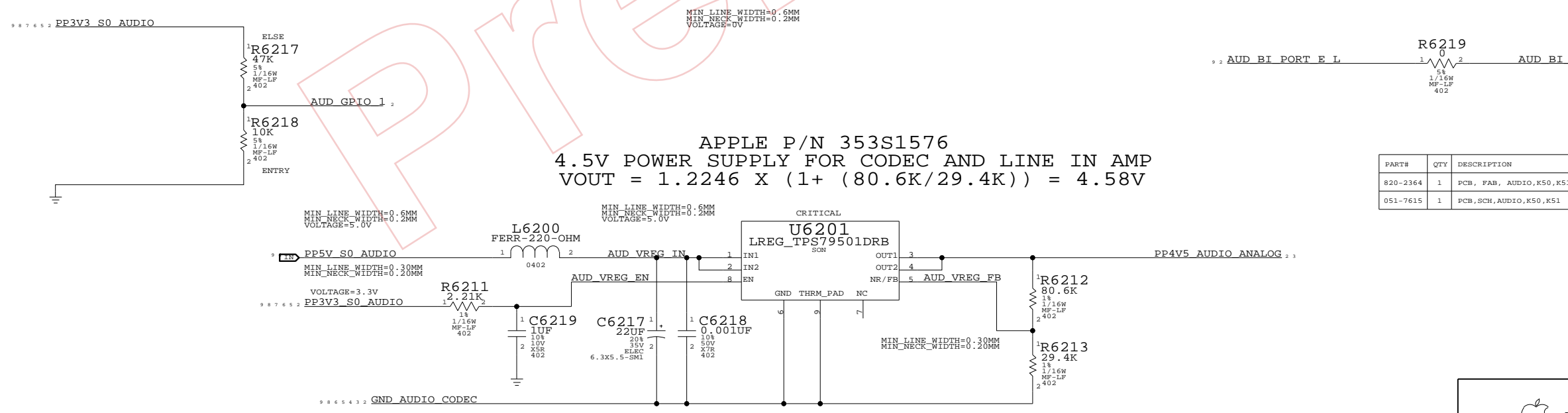
<b>AUDIO: TITLE</b>	
SYNC_MASTER=AUDIO	SYNC_DATE=08/04/2006
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 APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7615	14
SCALE	SHT	OF	
NONE	1	101	

AUDIO CODEC  
APPLE P/N 353S1538



APPLE P/N 353S1576  
4.5V POWER SUPPLY FOR CODEC AND LINE IN AMP  
 $V_{OUT} = 1.2246 \times (1 + (80.6K/29.4K)) = 4.58V$

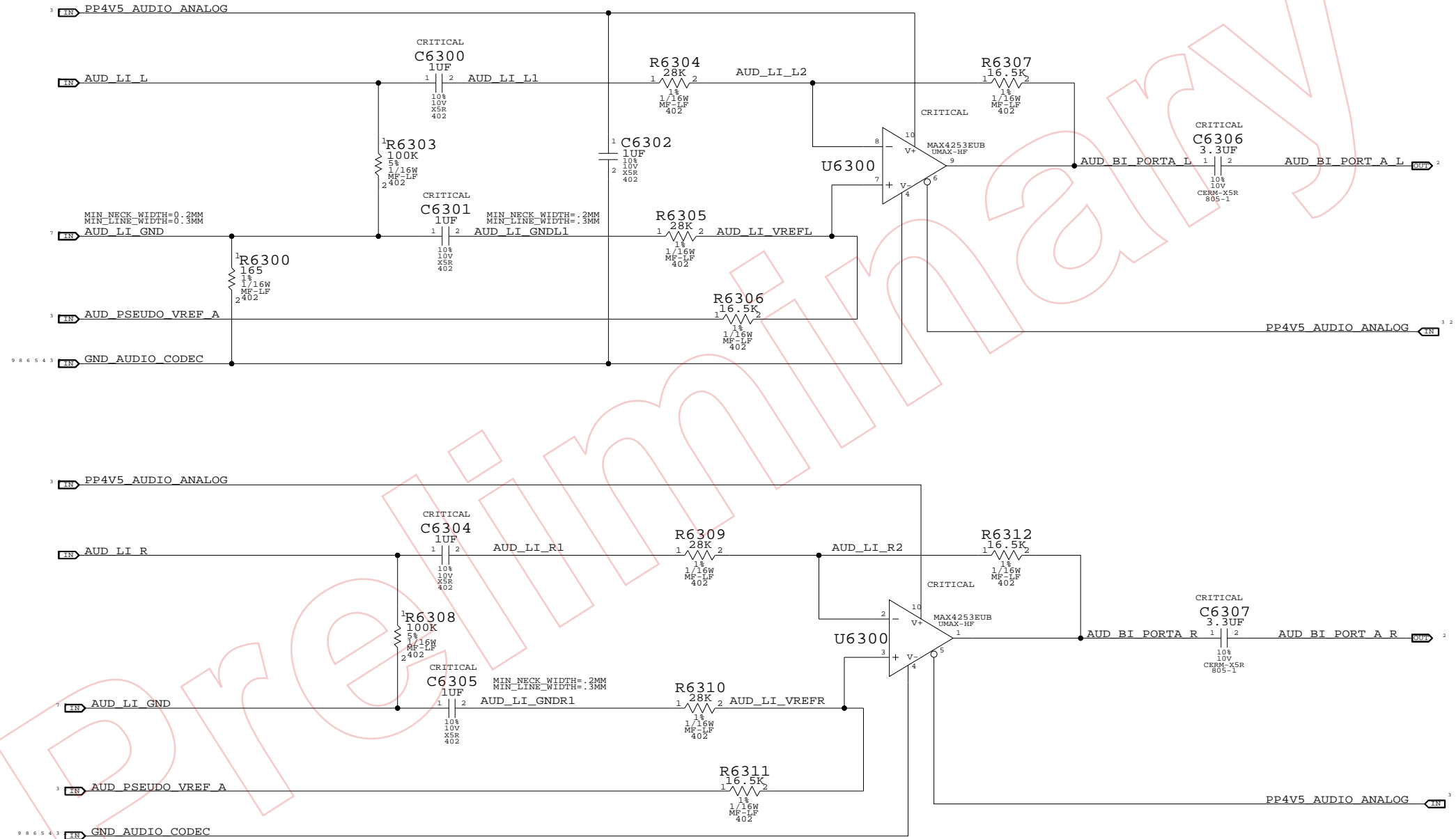


PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
820-2364	1	PCB, FAB, AUDIO,K50,K51	MLB1		
051-7615	1	PCB,SCH,AUDIO,K50,K51	SCH1		

**AUDIO: CODEC**  
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APPLE INC.	SIZE D	DRAWING NUMBER 051-7615	REV. 14
	SCALE NONE	SHT 62 OF 101	

APPLE PART NUMBER 353S2098  
 LINE IN PSEUDO-DIFFERENTIAL AMP  
 AV = 0.59  
 FC = 5.7 HZ

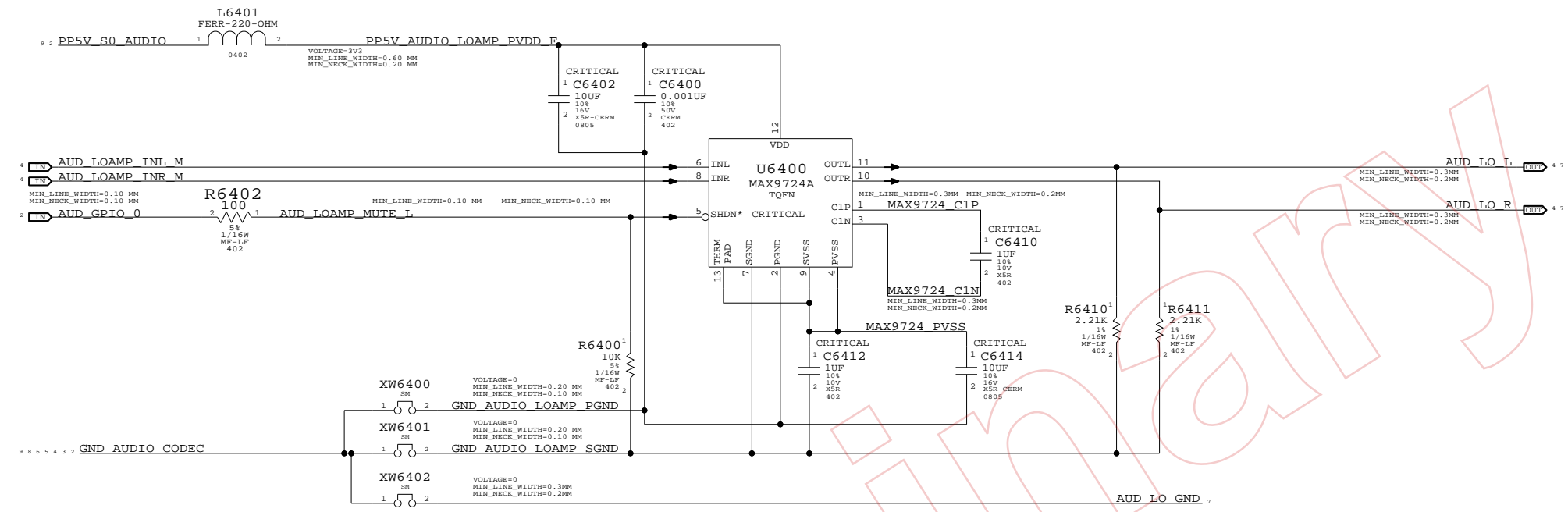


AUDIO: LINE INPUT AMP

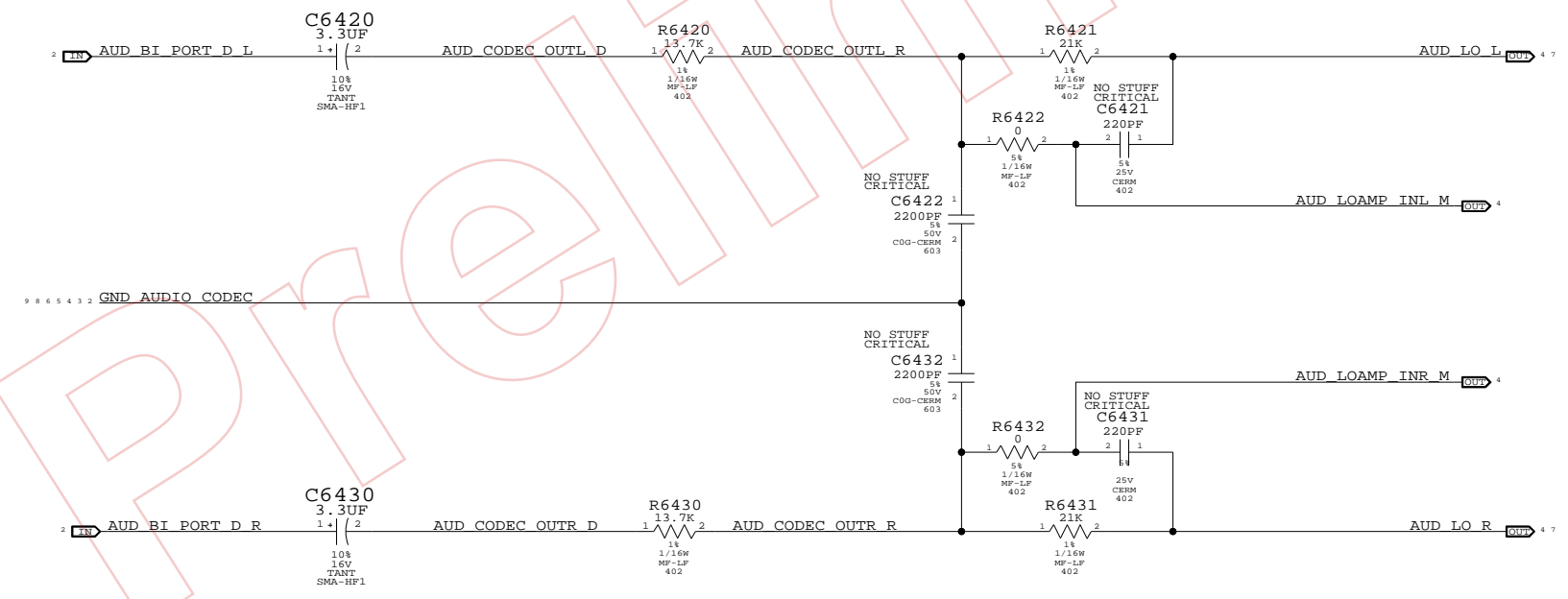
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APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7615	14
SCALE	SHT 63 OF 101		
NONE			

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



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

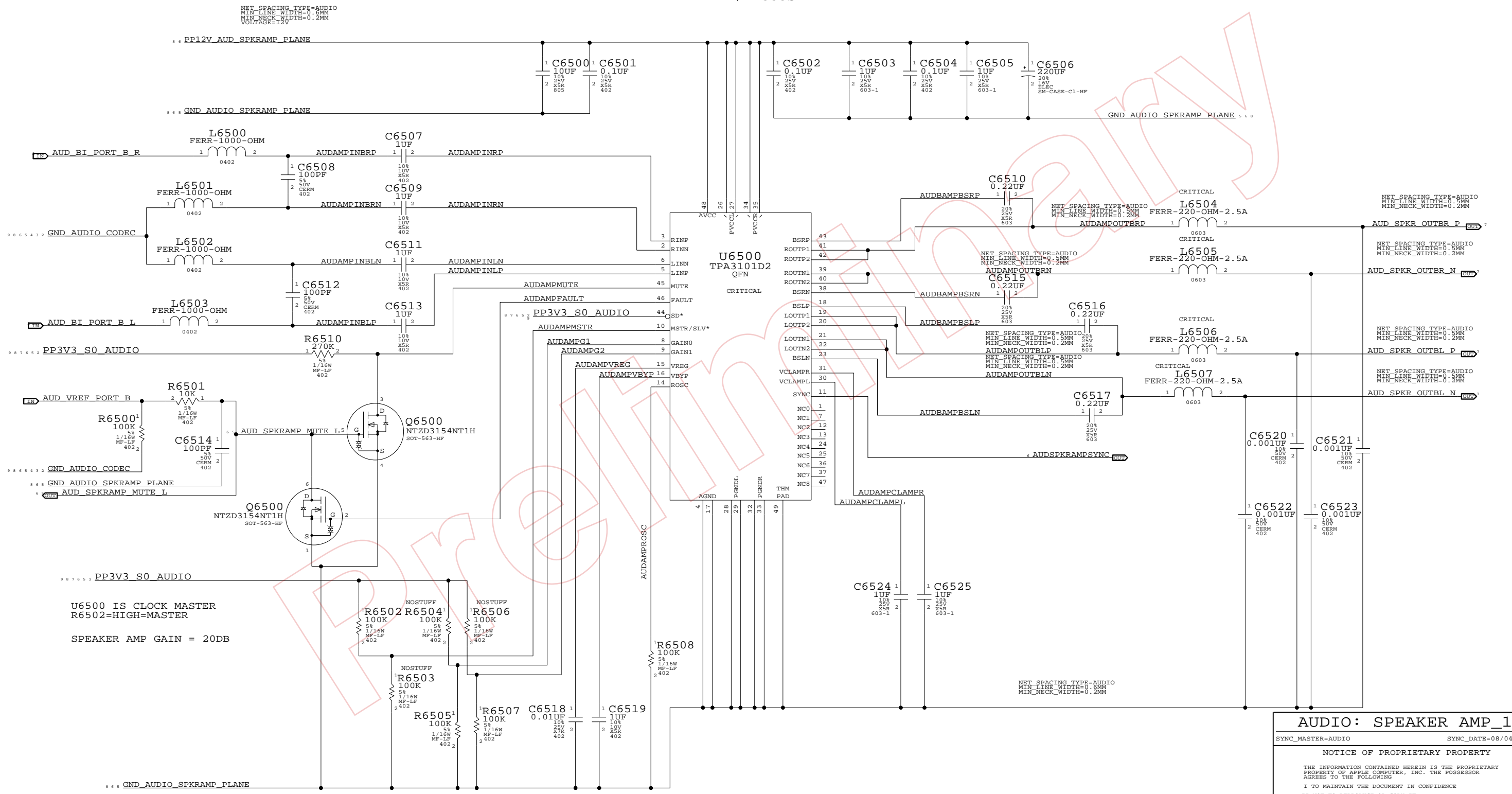


AUDIO: HEADPHONES AMP

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SCALE	SHT	OF	
NONE	64	101	

**SPEAKER AMP**  
APPLE P/N 353S2172



**AUDIO: SPEAKER AMP\_1**

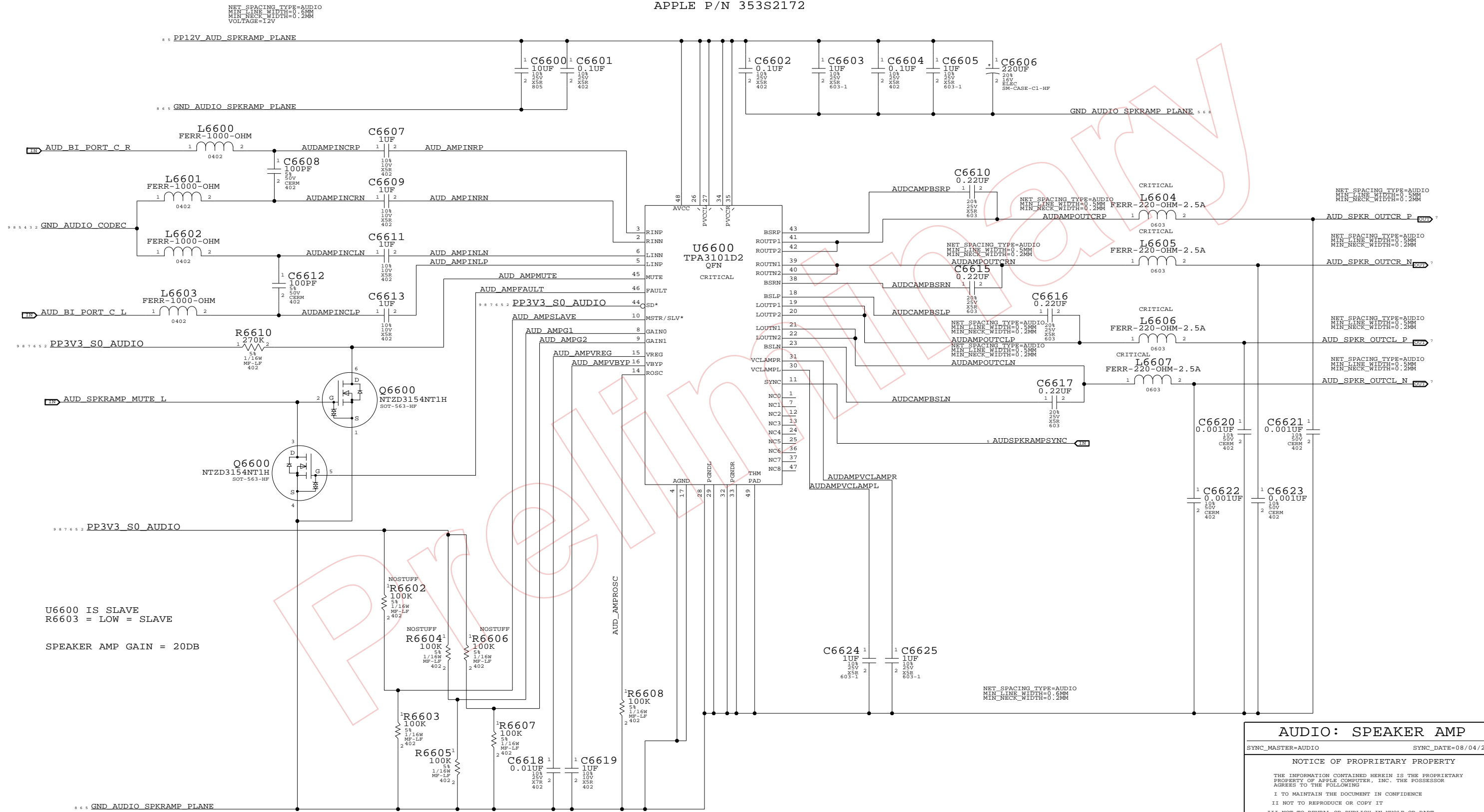
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	D	051-7615	14
SCALE	SHT 65 OF 101		
NONE			

**SPEAKER AMP**  
APPLE P/N 353S2172



U6600 IS SLAVE  
R6603 = LOW = SLAVE  
SPEAKER AMP GAIN = 20DB

**AUDIO: SPEAKER AMP**

SYNC\_MASTER=AUDIO SYNC\_DATE=08/04/2006

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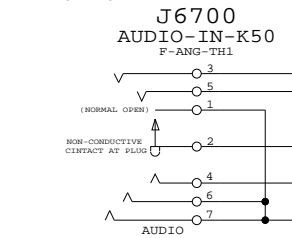
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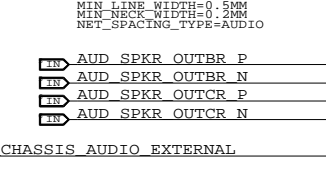
APPLE INC.	SIZE	DRAWING NUMBER	REV.
	D	051-7615	14
SCALE	SHT	OF	
NONE	66	101	

**SPEAKER CABLE CONNECTORS**  
 APPLE P/N 518S0680  
 APPLE P/N 518S0688

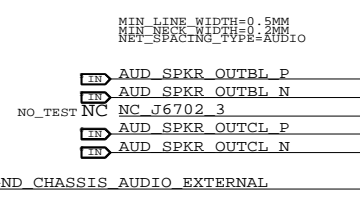
**COMBO IN JACK**  
 APPLE P/N 514-0641



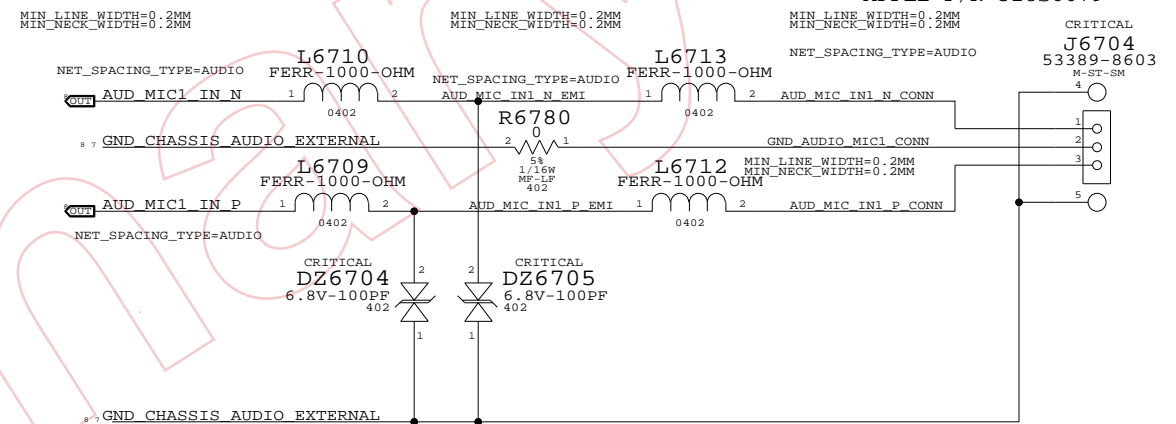
PROPERTIES FOR ALL SPKR NETS



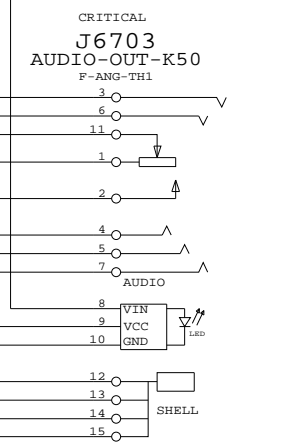
PROPERTIES FOR ALL SPKR NETS



**INTERNAL MIC CON**  
 APPLE P/N 518S0679



**LINE OUT JACK**  
 APPLE P/N 514-0642



**AUDIO: CONNECTORS**

SYNC\_MASTER=AUDIO SYNC\_DATE=08/04/2006

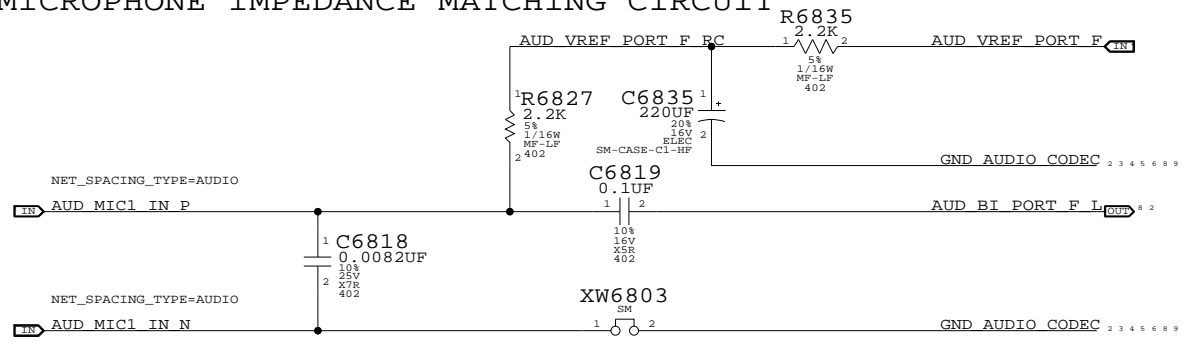
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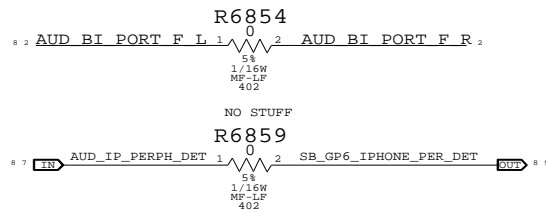
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SCALE	SHT	OF	
NONE	67	101	

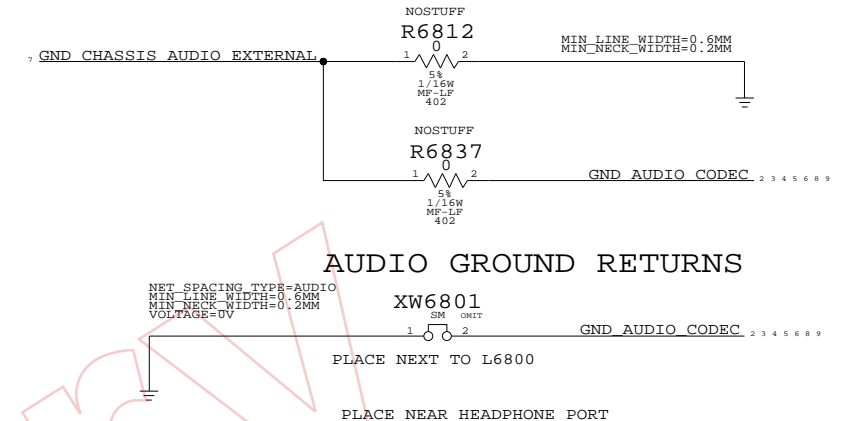
MICROPHONE IMPEDANCE MATCHING CIRCUIT



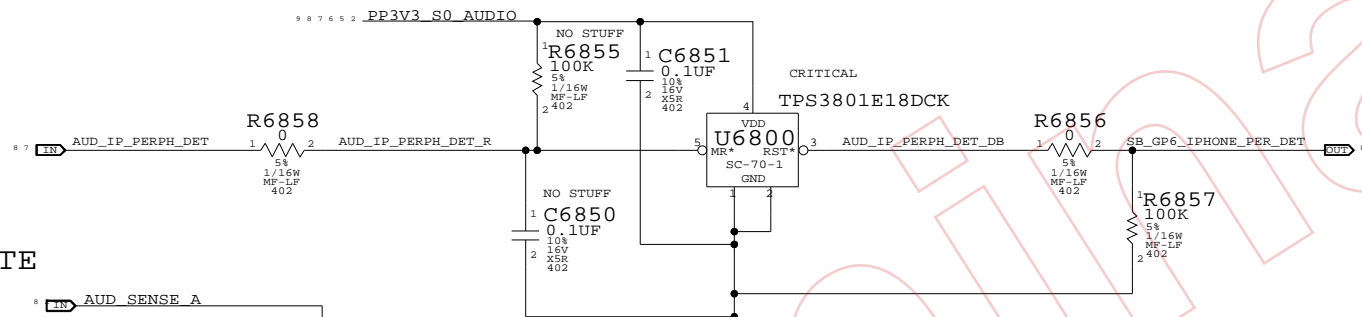
OPTIONAL RESISTOR TO COMBINE L/R SIGNALS FOR MONO MIC



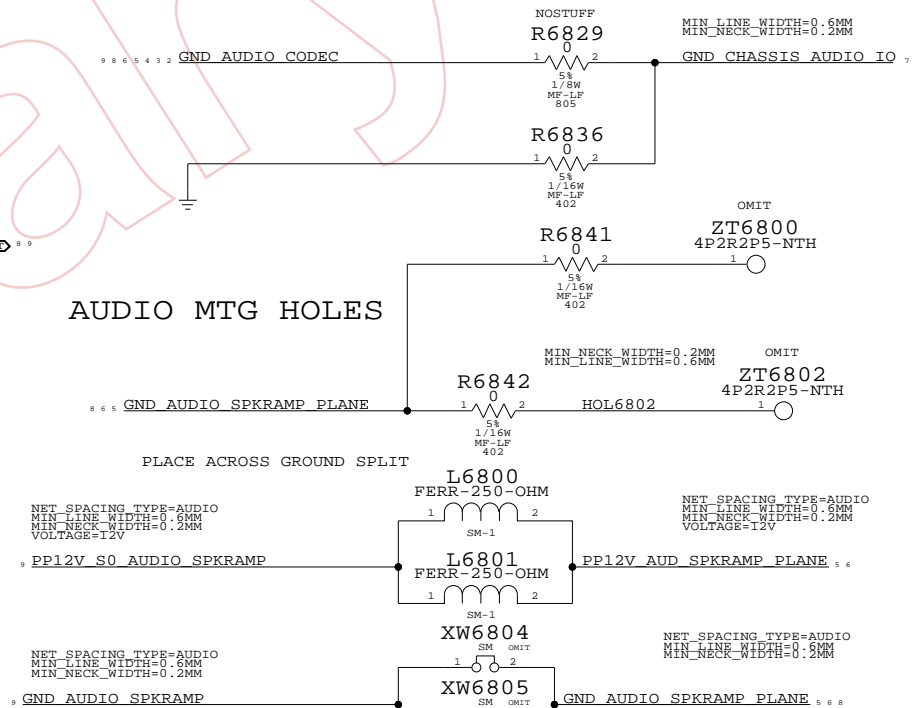
AUDIO GROUND RETURNS



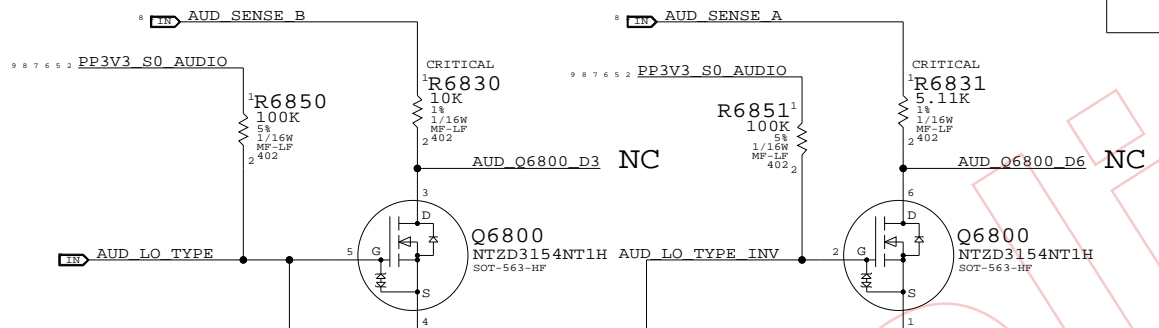
IPHS HS DETECT DEBOUNCE CKT



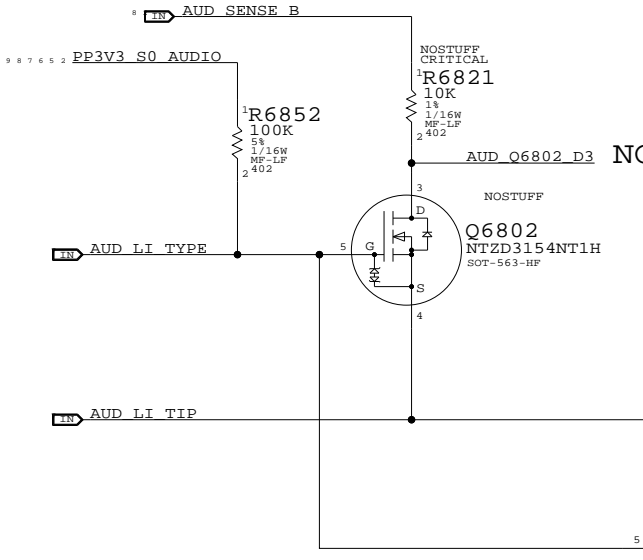
AUDIO MTG HOLES



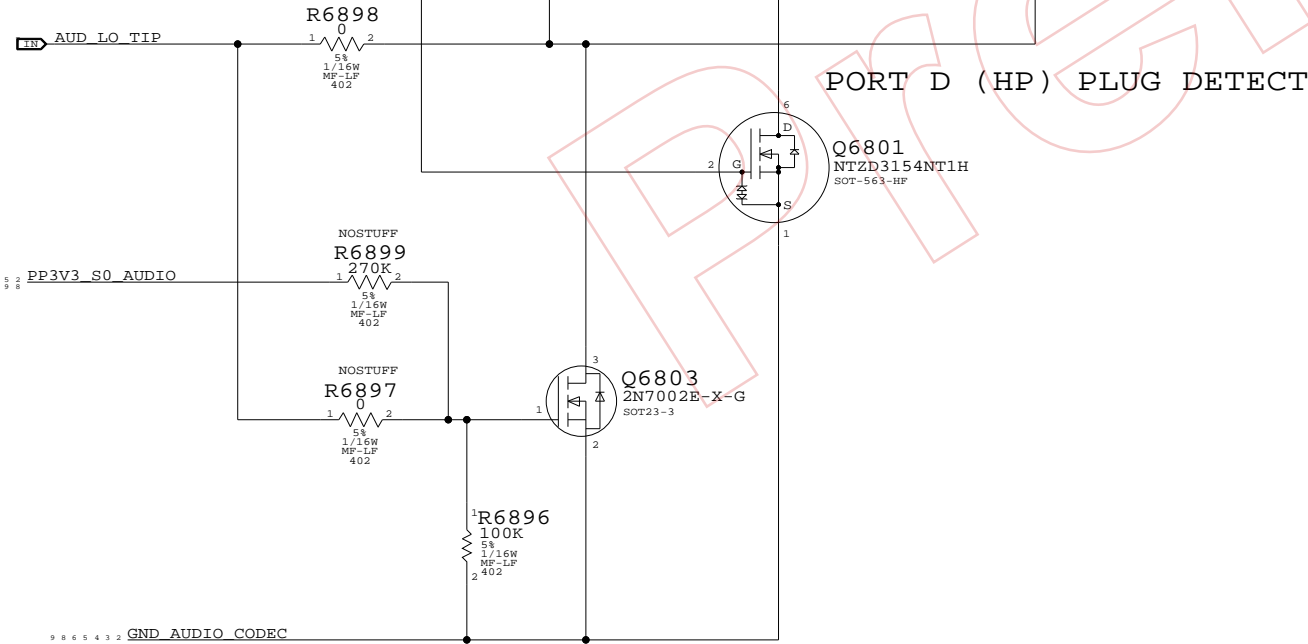
PORT E DIGITAL OUT DETECT DELEGATE



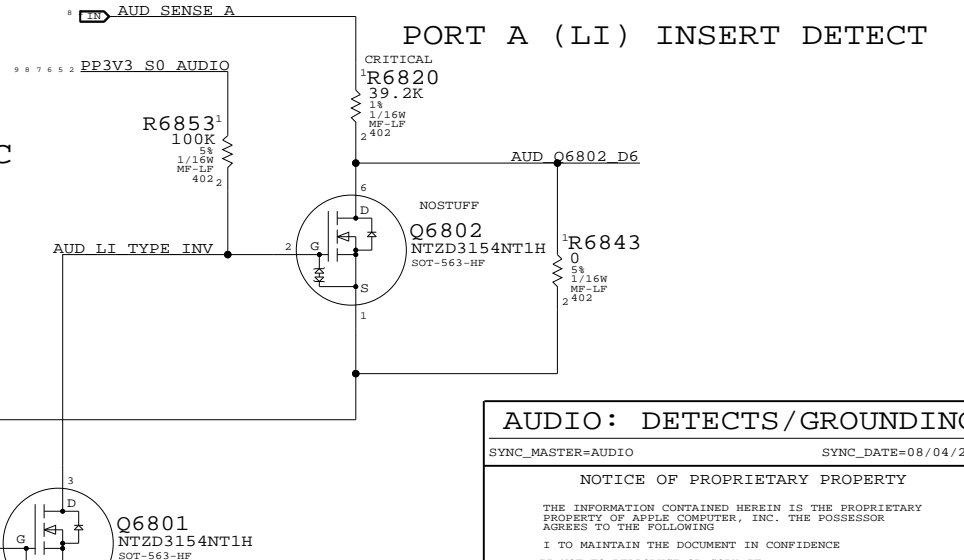
PORT G (DI) DIG DET DELEGATE



PORT D (HP) PLUG DETECT



PORT A (LI) INSERT DETECT

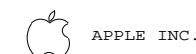


AUDIO: DETECTS/GROUNDING

SYNC\_MASTER=AUDIO SYNC\_DATE=08/04/2006

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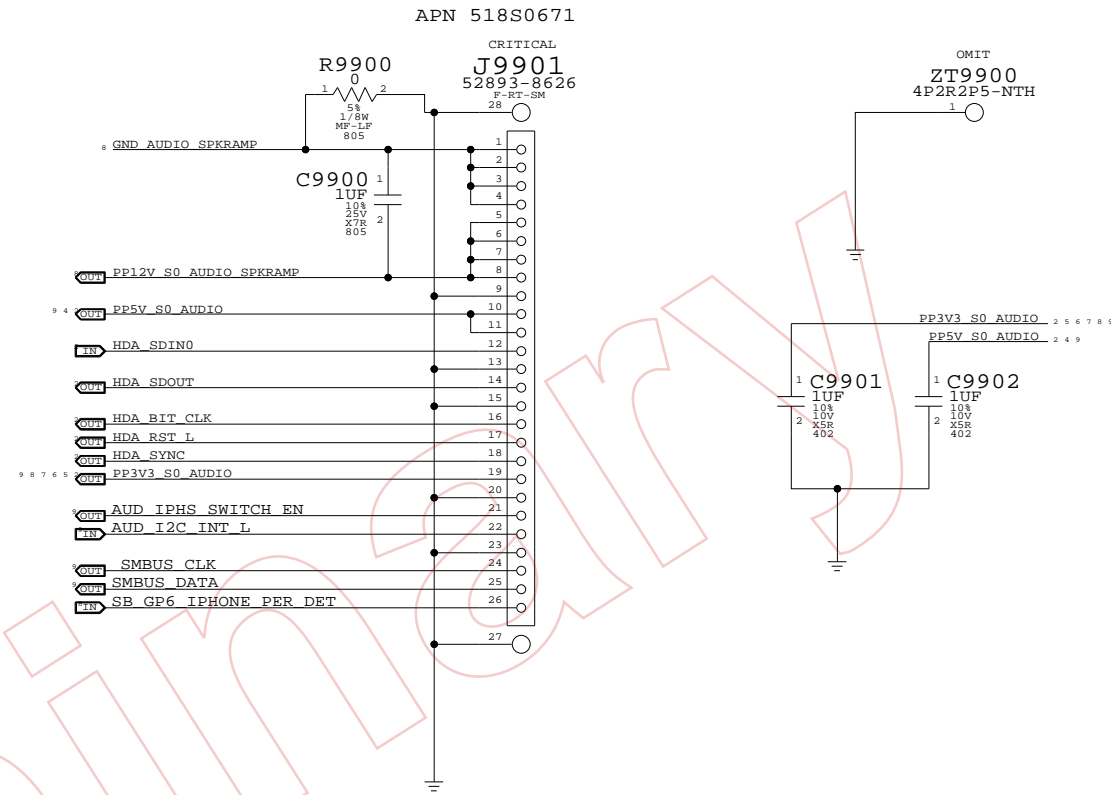


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SIZE	DRAWING NUMBER	REV.
D	051-7615	14
SCALE	SHT	OF
NONE	68	101

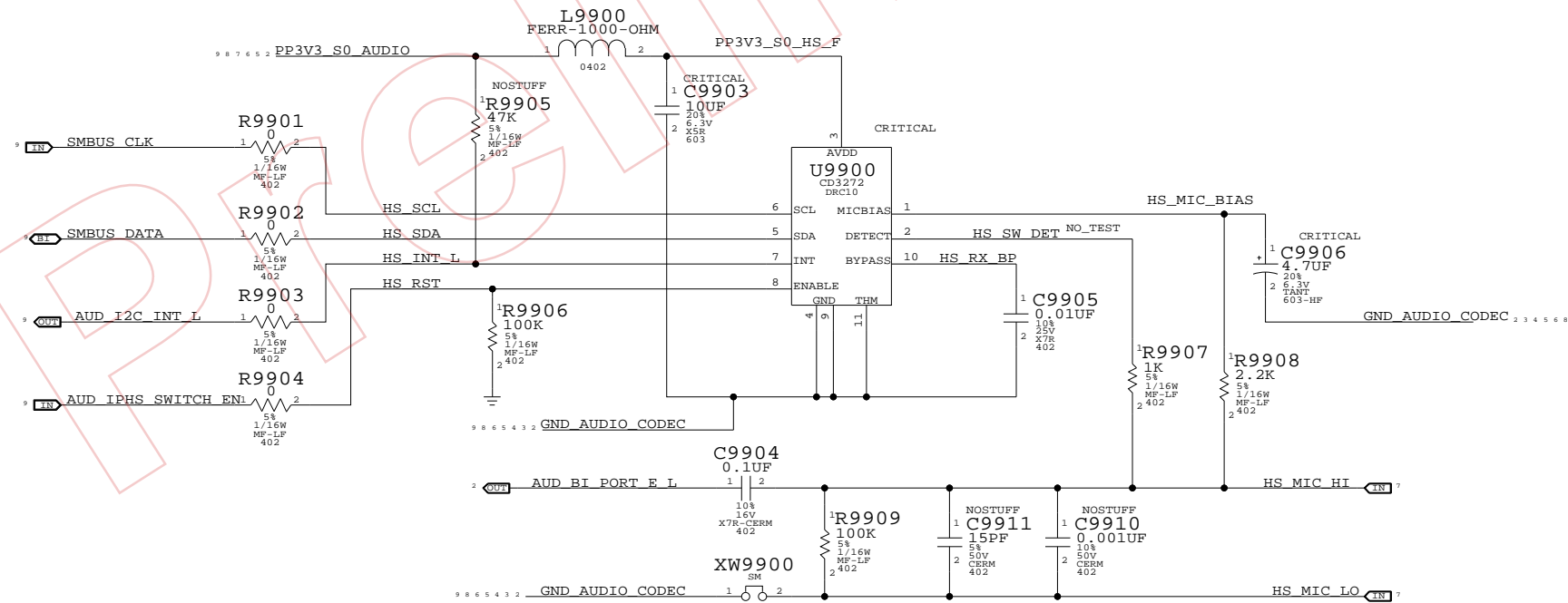


FUNCTION	PIN	CONVERTER	VOLUME	ENABLE/ CNTRL TYPE	DETECT/ INTERRUPT
TWEETER	26	5	15	VREF B 100%	N/A
WOOFER	24	3	13	VREF B 100%	N/A
LINE OUTPUT	20	2	12	GPIO 0	PORT D
LINE INPUT	21	8	8	VREF A 50%	PORT A
INTERNAL MICROPHONE	25	7	7	VREF F 100%	N/A
EXTERNAL MICROPHONE	27	7	7	MCPGP38/ICHGP34	(PERIPH)MCPGP17/ICHGP6
DIGITAL OUT	30	6	N/A	N/A	PORT G
DIGITAL IN	31	10	N/A	N/A	N/A
MIKEY INTERRUPT	N/A	N/A	N/A	MCPBUS1/ICHBUS0	MCPGP5/ICHGP1



## MIKEY RECEIVER CKT

WRITE: 0X72 READ: 0X73 APN 353S2256



AUDIO: MLB CONNECTOR

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SCALE	SHT	99 OF 101
NONE		



8			7			6			5			4			3			2			1		
Title: Cref Part Report Design: polka_audio Date: Oct 3 16:36:42 2007			J6703 CON_F10ANG_4MT_AUDIO polka_audio[7B3] OUT_TH_F-ANG-TH			J6704 CON_M3ST_S2MT_SM_M-S polka_audio[7C1] T-SM			J9901 CON_F22RT_S2MT_SM_F- polka_audio[9D4] RT-SM			L6200 IND_0402 polka_audio[2A6] L6201 IND_0402 polka_audio[2D7] L6202 IND_0402 polka_audio[2D7] L6280 IND_0402 polka_audio[2D4] L6401 IND_0402 polka_audio[4D6] L6501 IND_0603-LF polka_audio[5C2] L6502 IND_0603-LF polka_audio[5C2] L6503 IND_0603-LF polka_audio[5C3] L6504 IND_0603-LF polka_audio[5C3] L6505 IND_0402 polka_audio[5D6] L6506 IND_0402 polka_audio[5C6] L6507 IND_0402 polka_audio[5C6] L6508 IND_0402 polka_audio[5C6] L6601 IND_0603-LF polka_audio[6C2] L6602 IND_0603-LF polka_audio[6C2] L6603 IND_0603-LF polka_audio[6C3] L6604 IND_0603-LF polka_audio[6C3] L6605 IND_0402 polka_audio[6D6] L6606 IND_0402 polka_audio[6C6] L6607 IND_0402 polka_audio[6C6] L6608 IND_0402 polka_audio[6C6] L6704 IND_0402 polka_audio[7D5] L6705 IND_0402 polka_audio[7D5] L6706 IND_0402 polka_audio[7D5] L6707 IND_0603-LF polka_audio[7D5] L6709 IND_0402 polka_audio[7C3] L6710 IND_0402 polka_audio[7C3] L6712 IND_0402 polka_audio[7C2] L6713 IND_0402 polka_audio[7C2] L6714 IND_0402 polka_audio[7B7] L6715 IND_0402 polka_audio[7B7] L6716 IND_0402 polka_audio[7B7] L6717 IND_0402 polka_audio[7B7] L6718 IND_0402 polka_audio[7A7] L6719 IND_0402 polka_audio[7A7] L6720 IND_0402 polka_audio[7B7] L6721 IND_0402 polka_audio[7A7] L6780 IND_0603-LF polka_audio[7A7] L6781 IND_0402 polka_audio[7D5] L6800 IND_SM-1 polka_audio[8B2] L6801 IND_SM-1 polka_audio[8B2] Q6500 TRA_DUAL_PCH_NTZD315 polka_audio[5B6 5B6] 4N_SOT-563 Q6600 TRA_2N7002_SOT23-LF polka_audio[6B7] Q6800 TRA_DUAL_PCH_NTZD315 polka_audio[8A6 8A7] 4N_SOT-563 Q6801 TRA_DUAL_PCH_NTZD315 polka_audio[8A3 8A6] 4N_SOT-563 Q6802 TRA_DUAL_PCH_NTZD315 polka_audio[8A4 8A2] 4N_SOT-563 Q9940 TRA_SSM3K15FV_SOD-VE polka_audio[9A4] SM Q9941 TRA_SSM3J16FV_SOD-VE polka_audio[9A5] SM			R6831 RES_402 polka_audio[8B6] R6835 RES_402 polka_audio[8C6] R6836 RES_402 polka_audio[8C2] R6837 RES_402 polka_audio[8C3] R6841 RES_402 polka_audio[8C1] R6842 RES_402 polka_audio[8C2] R6843 RES_402 polka_audio[8A2] R6850 RES_402 polka_audio[8B7] R6851 RES_402 polka_audio[8B6] R6852 RES_402 polka_audio[8B4] R6853 RES_402 polka_audio[8B3] R6854 RES_402 polka_audio[8C6] R9900 RES_805 polka_audio[9D5] R9940 RES_402 polka_audio[9B4] R9941 RES_402 polka_audio[9A4] R9942 RES_402 polka_audio[9A4] R9943 RES_402 polka_audio[9A5] R9945 RES_402 polka_audio[9A5] R9946 RES_402 polka_audio[9A4] RP6500 RPAK4P_SM-LF polka_audio[5A4] RP6600 RPAK4P_SM-LF polka_audio[6A4] U6200 AUDIO_ALC885QV3_QFN polka_audio[2C6] _QFN U6201 LREG_TPS79501DRB_SON polka_audio[2A5] U6300 OPAMP_MAX4477_UMAX polka_audio[3B4 3C4] U6400 MAX9724A_TQFN polka_audio[4D5] U6500 MAX9714_QFN-LF polka_audio[5C5] U6600 MAX9714_QFN-LF polka_audio[6C5] XM6400 SHORT_SM polka_audio[4C6] XM6401 SHORT_SM polka_audio[4C6] XM6402 SHORT_SM polka_audio[4C6] XM6801 SHORT_SM polka_audio[8D2] XM6803 SHORT_SM polka_audio[8B7] XM6804 SHORT_SM polka_audio[8B2] XM6805 SHORT_SM polka_audio[8B2] XM9940 SHORT_SM polka_audio[9B5] ZT6800 MTHOLE polka_audio[8C1] ZT6802 MTHOLE polka_audio[8C1] ZT9900 MTHOLE polka_audio[9C6]								
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SUPPR_TRANSIENT1_402 polka_audio[7C3] -1 D26705 SUPPR_TRANSIENT1_402 polka_audio[7C2] -1 D26706 SUPPR_TRANSIENT1_402 polka_audio[7A7] -1 D26708 SUPPR_TRANSIENT1_402 polka_audio[7A6] -1 D26709 SUPPR_TRANSIENT1_402 polka_audio[7A6] -1 D26710 SUPPR_TRANSIENT1_402 polka_audio[7A5] -1 D26711 SUPPR_TRANSIENT1_402 polka_audio[7A5] -1 D26712 SUPPR_TRANSIENT1_402 polka_audio[7C5] -1 D26714 SUPPR_TRANSIENT1_402 polka_audio[7A6] -1 J6700 CON_F10ANG_4MT_AUDIO polka_audio[7D8] IN_TH_F-ANG-TH J6701 CON_M4ST_S2MT_SM_M-S polka_audio[7D2] T-SM J6702 CON_M5RT_S2MT_SMA_M- polka_audio[7D1] RT-SM			R6200 RES_402 polka_audio[2C7] R6201 RES_402 polka_audio[2B6] R6202 RES_402 polka_audio[2B6] R6204 RES_402 polka_audio[2B3] R6211 RES_402 polka_audio[2A6] R6212 RES_402 polka_audio[2A4] R6213 RES_402 polka_audio[2A4] R6214 RES_402 polka_audio[2C3] R6216 RES_603 polka_audio[2B4] R6300 RES_402 polka_audio[3C6] R6303 RES_402 polka_audio[3C5] R6304 RES_402 polka_audio[3D4] R6305 RES_402 polka_audio[3C4] R6306 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AUDIO: CREFS

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