

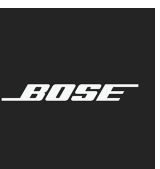
Revision		Comments
A	2016/03/15	1st revision
A1	2016/03/24	A1(P14,15,16,17,18,19) Fit channel number and polarity to ADC channel and pin. A1(P26) Add Redline/Inferno comment. A1(P20,21,22) Remove Buffer and jumper.
		A1(P26) Change FPC connector to right angle type(TE:4-173483, 9-0 A1(P14,15,16,17,18,19) Exchange ADCn_VCOM1/2. A1(P26) Add 2 of 4.7ohm resistor for thermal spreading.
		A1(P26) Correct J2203 Pin 1: DGND / Pin 2: A48V. A1(P26) Change R2212, R2215, R2216, R2217 to 0 ohm.

Schematic Contents

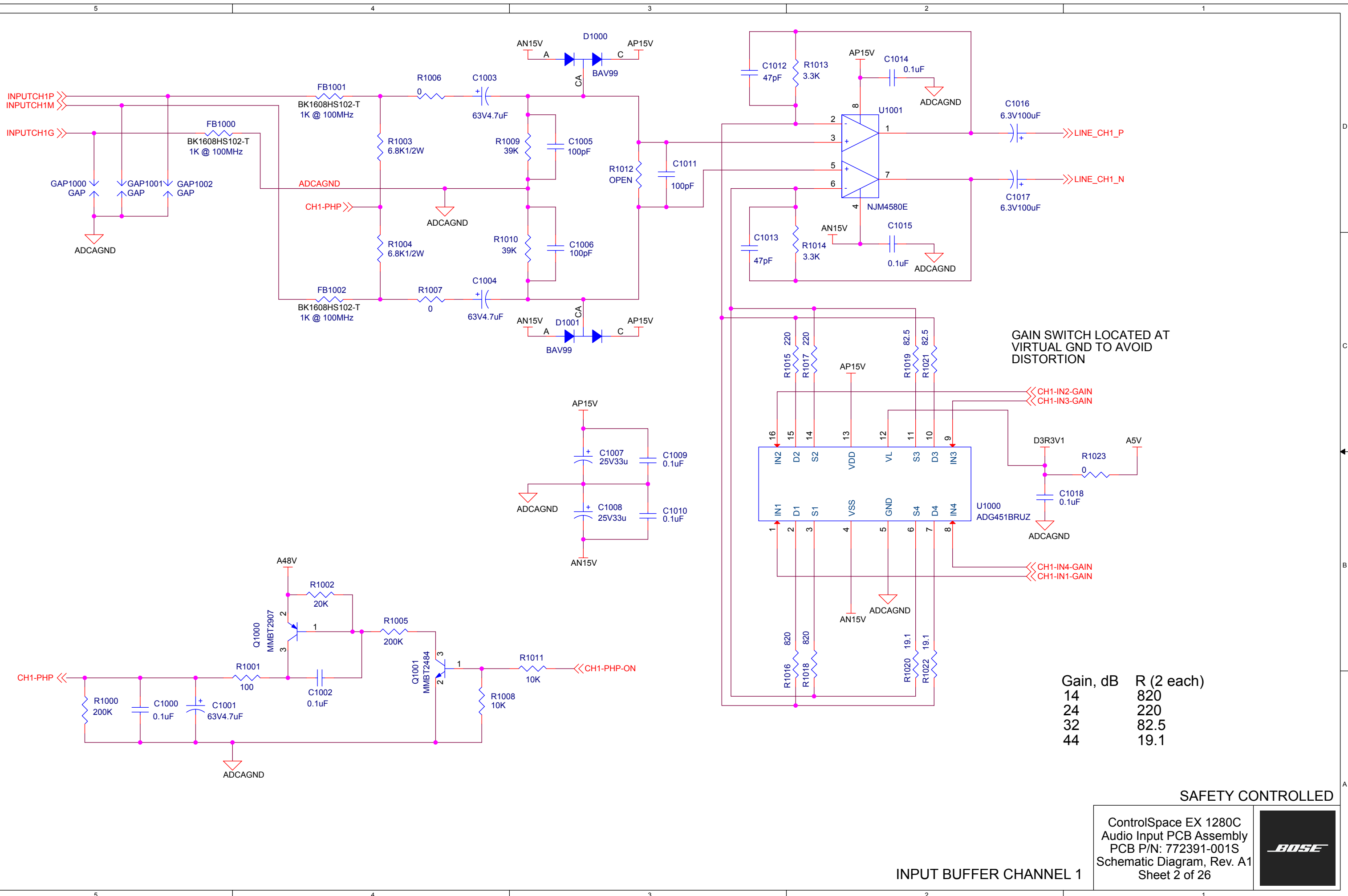
- P01 (Cover Page)
- P02 (1000)Input-CH01
- P03 (1050)Input-CH02
- P04 (1100)Input-CH03
- P05 (1150)Input-CH04
- P06 (1200)Input-CH05
- P07 (1250)Input-CH06
- P08 (1300)Input-CH07
- P09 (1350)Input-CH08
- P10 (1400)Input-CH09
- P11 (1450)Input-CH10
- P12 (1500)Input-CH11
- P13 (1550)Input-CH12
- P14 (1600)FILTER-CH0102
- P15 (1650)FILTER-CH0304
- P16 (1700)FILTER-CH0506
- P17 (1750)FILTER-CH0708
- P18 (1800)FILTER-CH0910
- P19 (1850)FILTER-CH1112
- P20 (1900)ADC-CH01-04
- P21 (1950)ADC-CH05-08
- P22 (2000)ADC-CH09-12
- P23 (2050)I2C IO BUFFER-CH01-04
- P24 (2100)I2C IO BUFFER-CH05-08
- P25 (2150)I2C IO BUFFER-CH09-12
- P26 (2250)CONNECTOR - PWR

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ControlSpace EX 1280C
 Audio Input PCB Assembly
 PCB P/N: 772391-001S
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COVER PAGE



GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

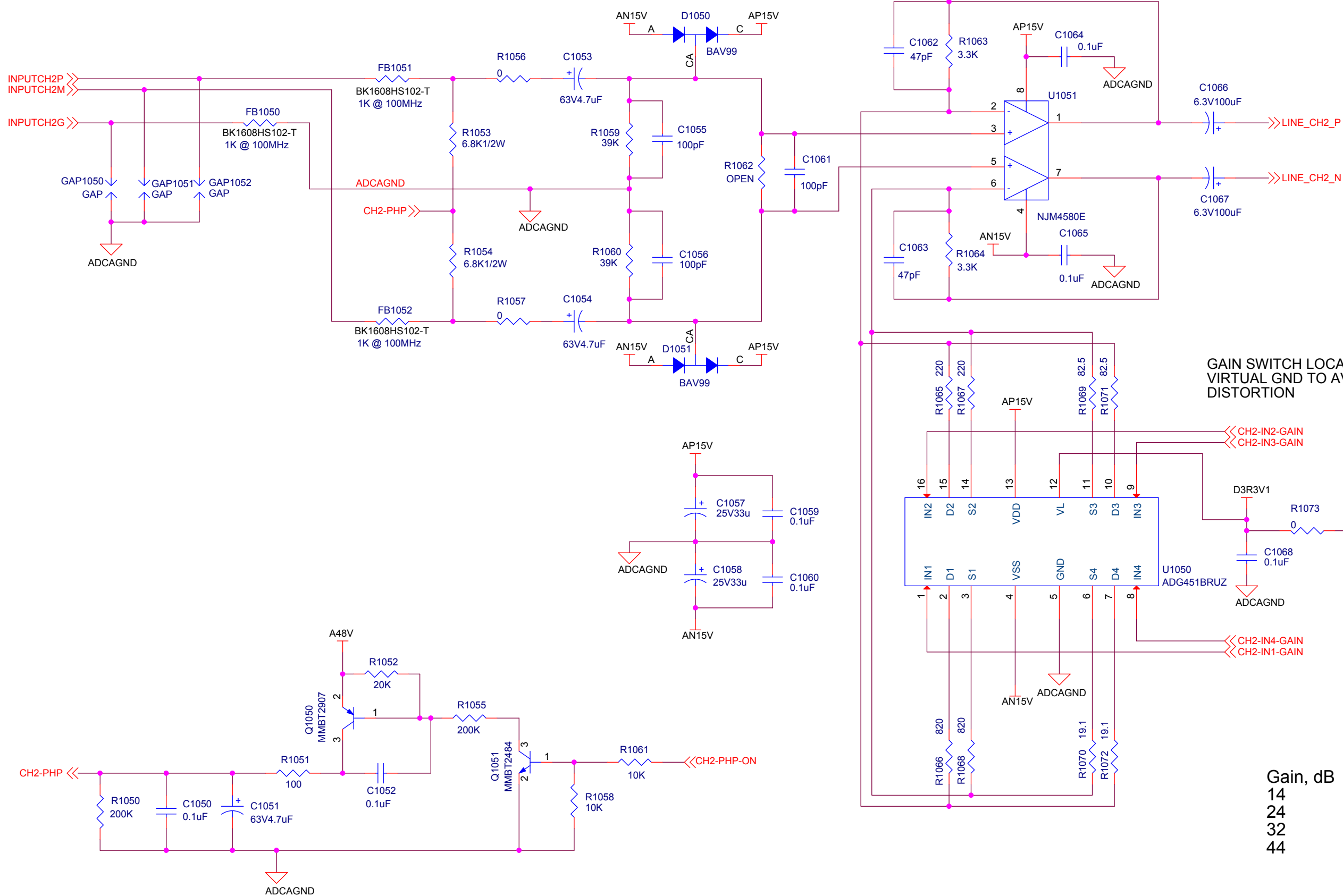
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

INPUT BUFFER CHANNEL 1

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GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

CH2-IN2-GAIN
CH2-IN3-GAIN
CH2-IN4-GAIN
CH2-IN1-GAIN

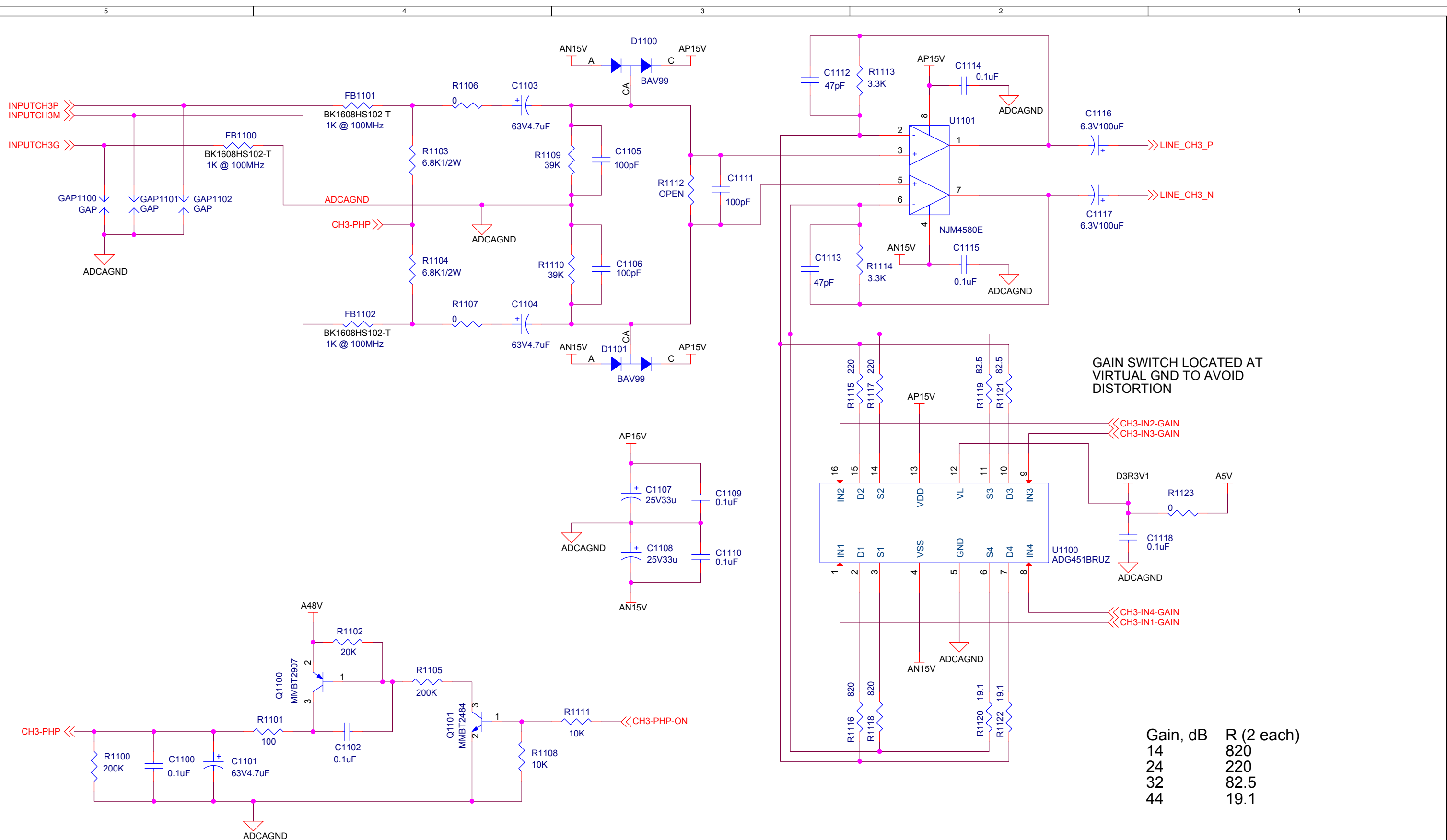
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

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INPUT BUFFER CHANNEL 2



GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

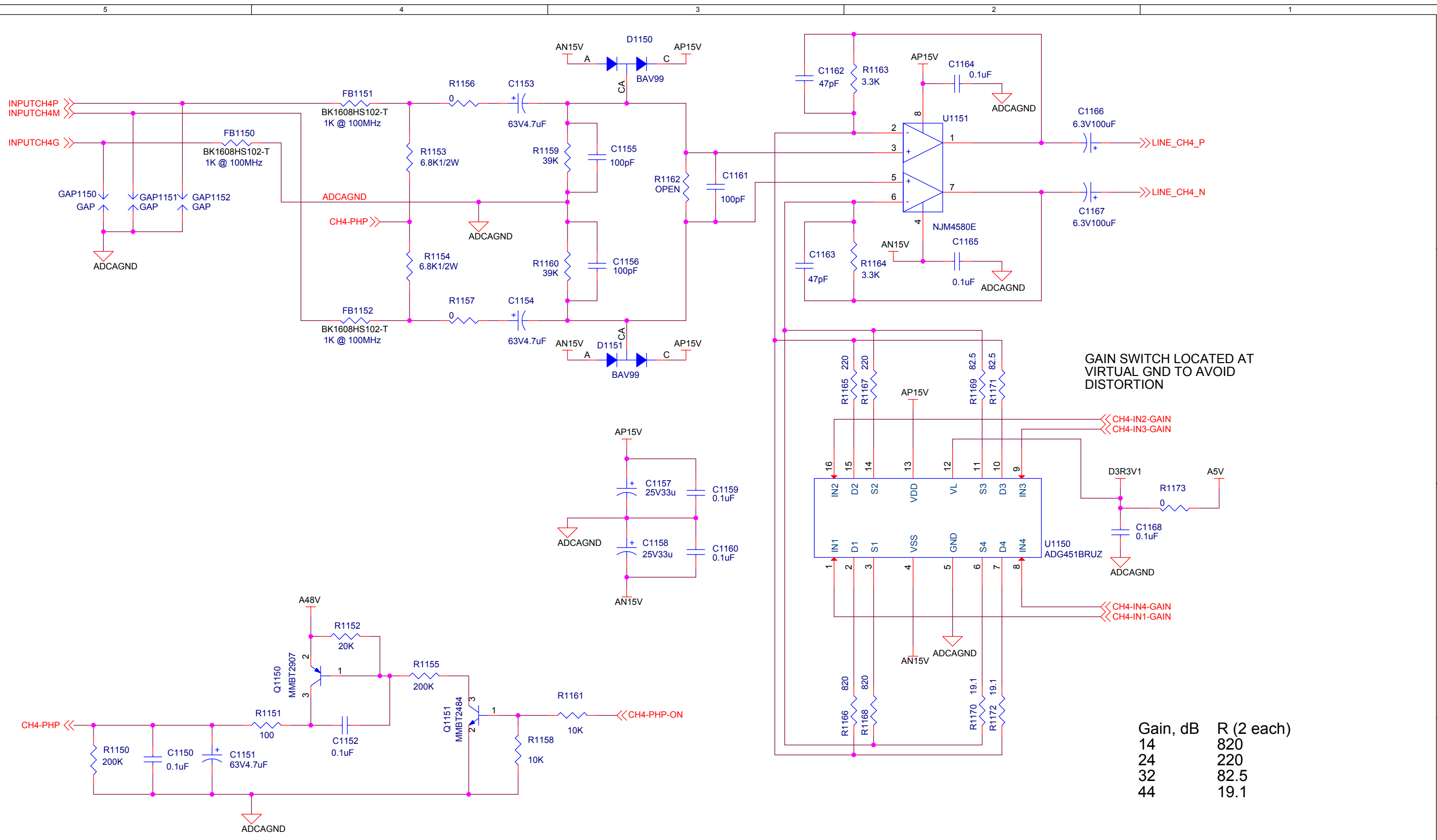
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

INPUT BUFFER CHANNEL 3

SAFETY CONTROLLED

ControlSpace EX 1280C
 Audio Input PCB Assembly
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GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

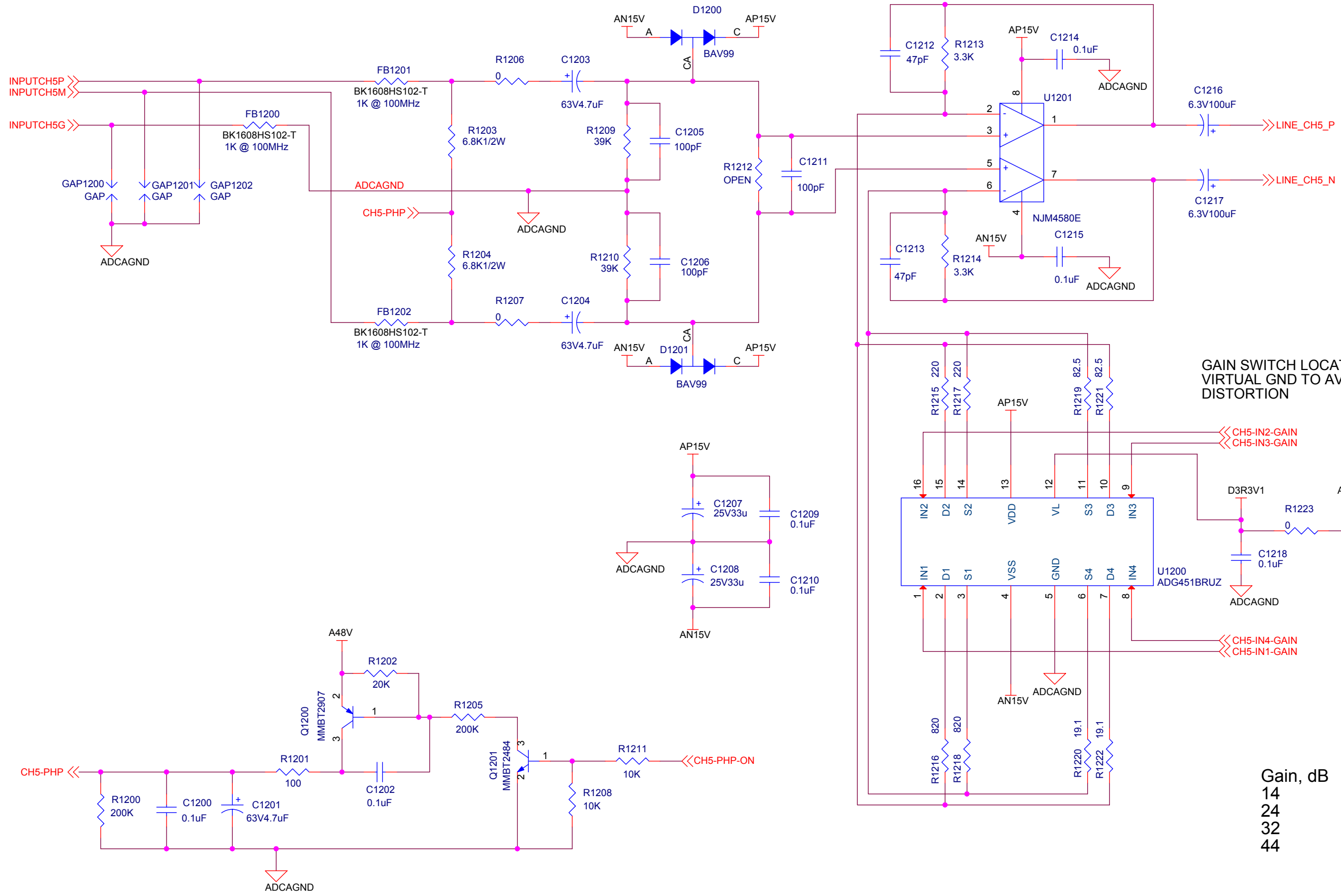
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

INPUT BUFFER CHANNEL 4

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ControlSpace EX 1280C
 Audio Input PCB Assembly
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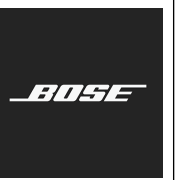
GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

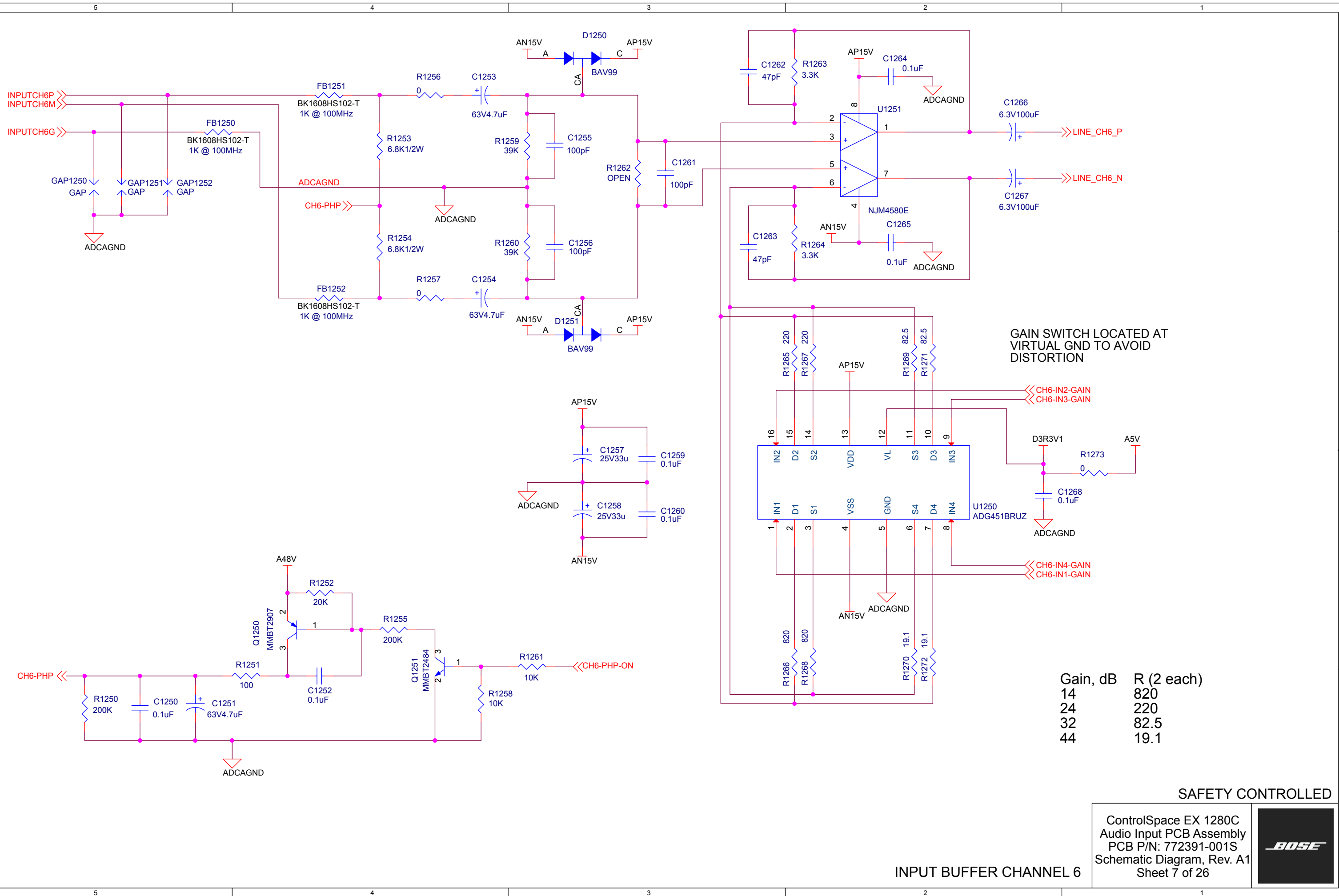
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

INPUT BUFFER CHANNEL 5

SAFETY CONTROLLED

ControlSpace EX 1280C
 Audio Input PCB Assembly
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GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

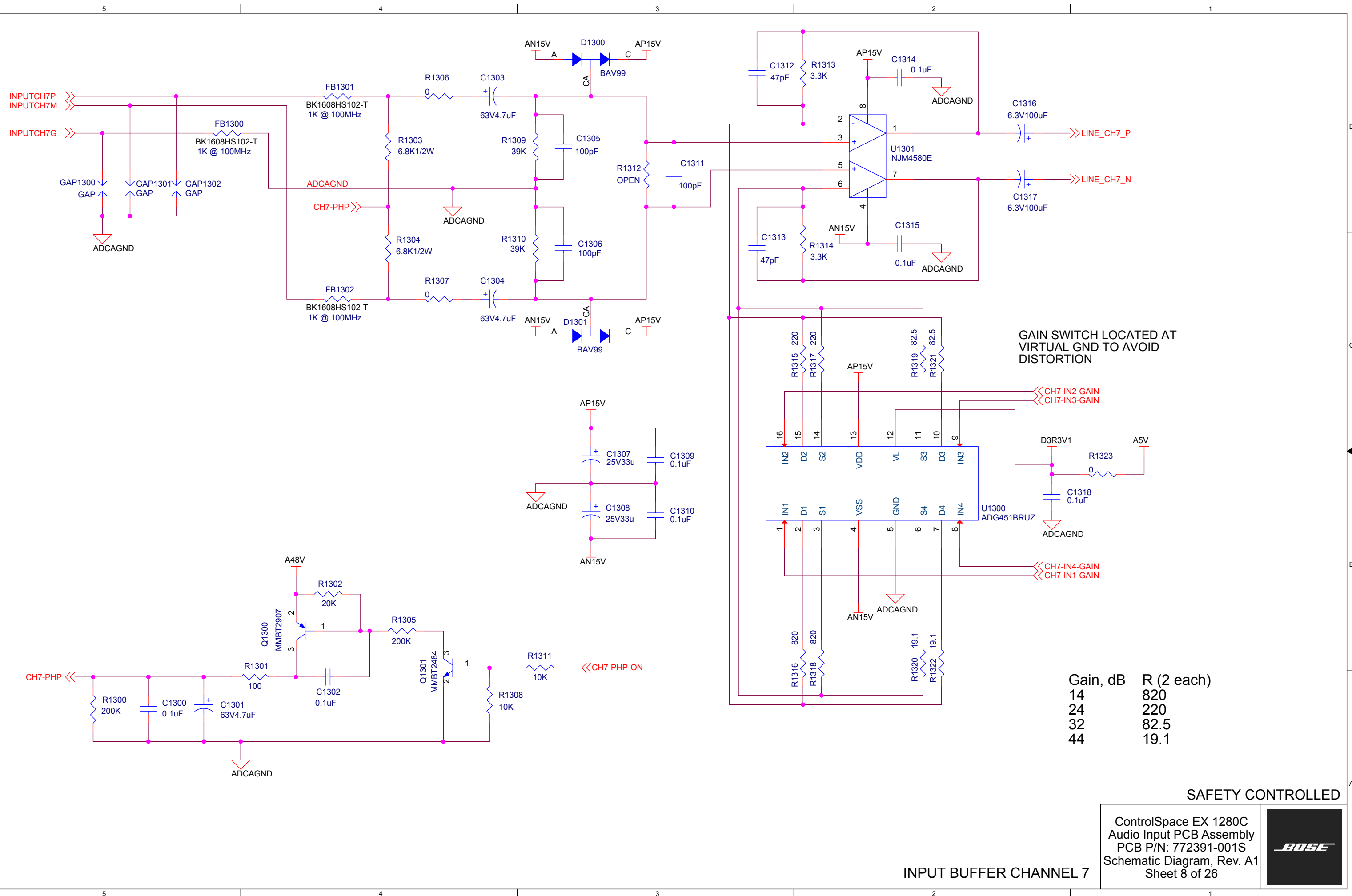
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

INPUT BUFFER CHANNEL 6

SAFETY CONTROLLED

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GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

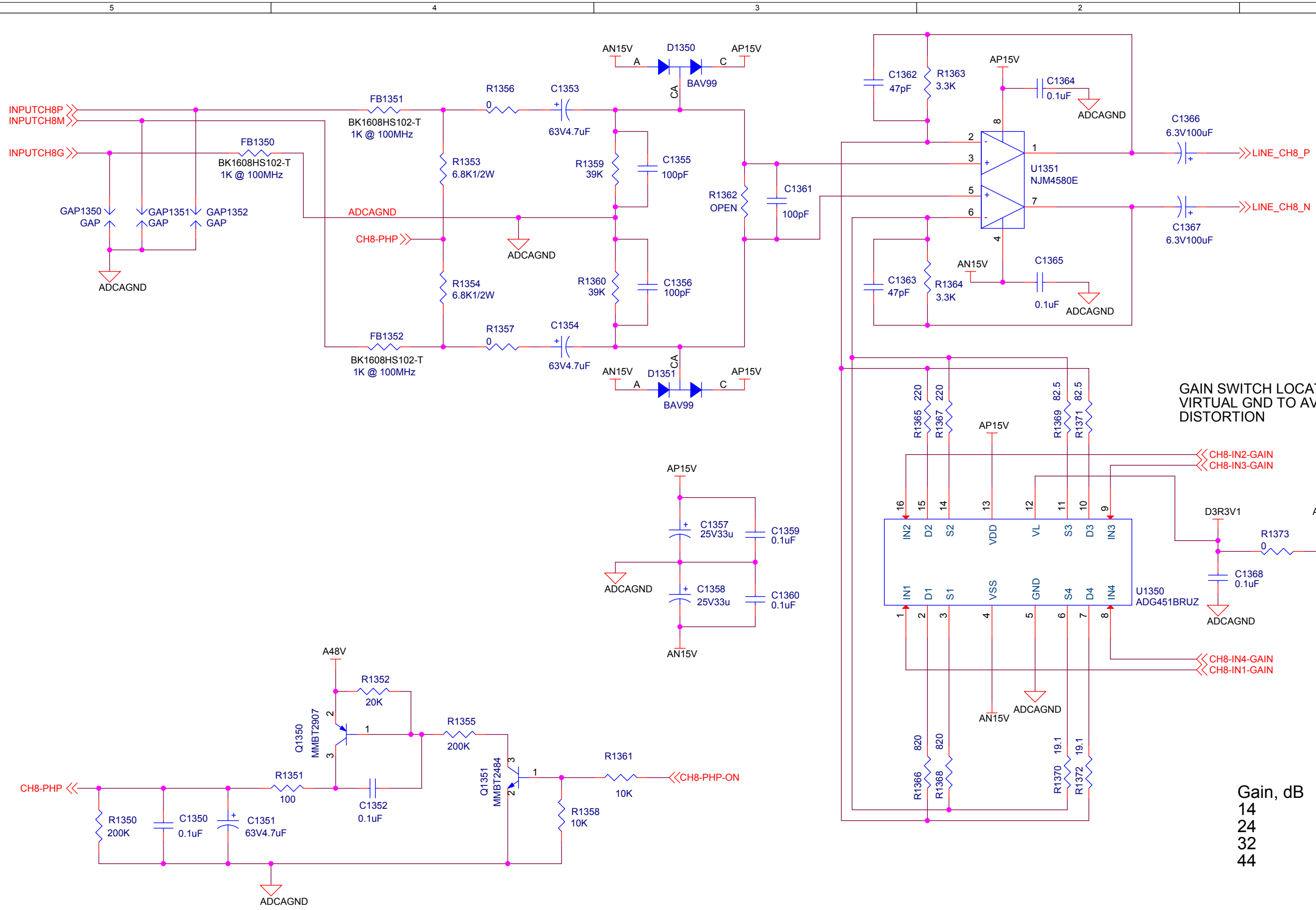
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

INPUT BUFFER CHANNEL 7

SAFETY CONTROLLED

ControlSpace EX 1280C
 Audio Input PCB Assembly
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GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

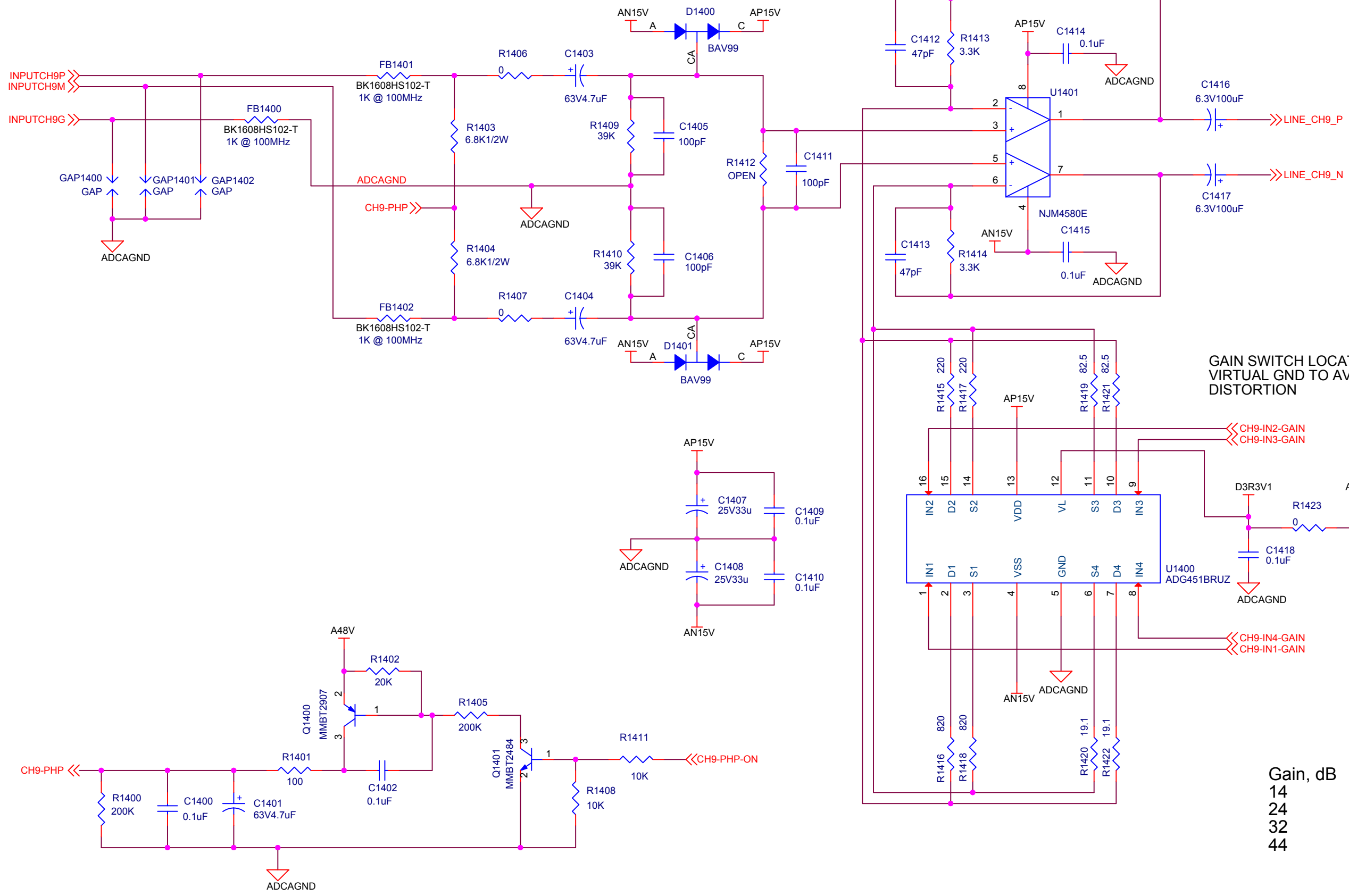
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

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ControlSpace EX 1280C
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INPUT BUFFER CHANNEL 8



GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

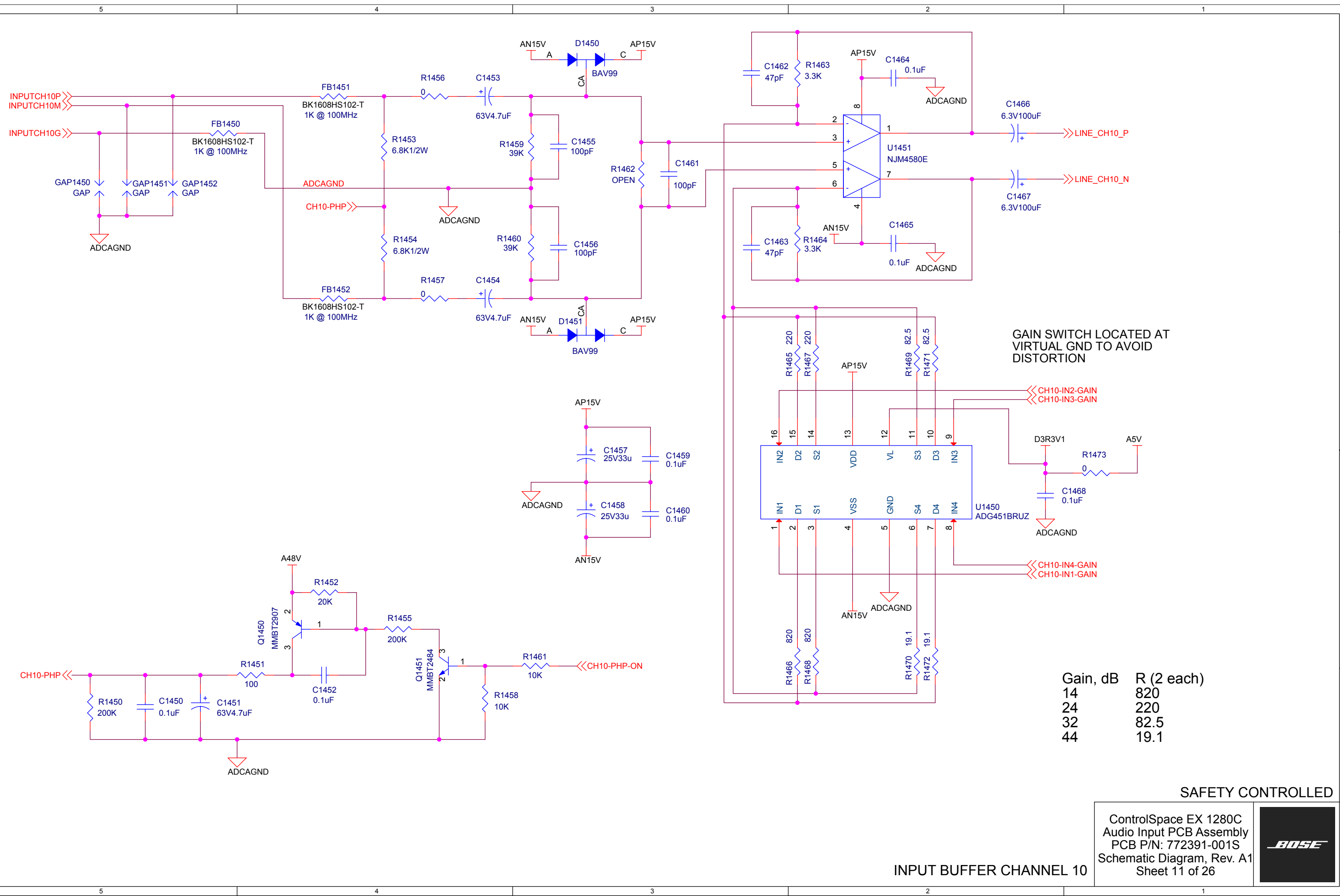
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

INPUT BUFFER CHANNEL 9

SAFETY CONTROLLED

ControlSpace EX 1280C
 Audio Input PCB Assembly
 PCB P/N: 772391-001S
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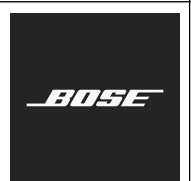


GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

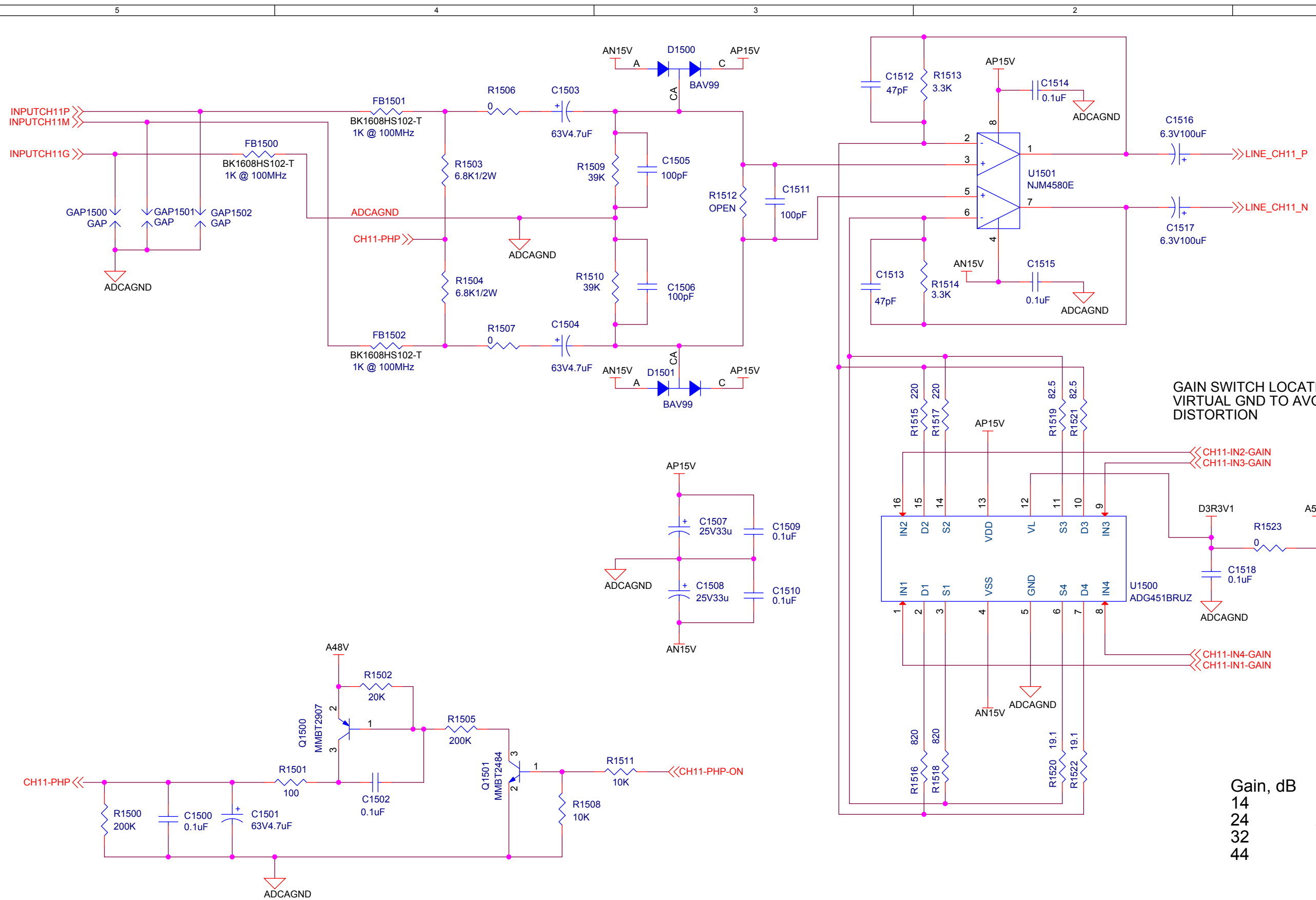
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

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ControlSpace EX 1280C
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 PCB P/N: 772391-001S
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INPUT BUFFER CHANNEL 10



GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

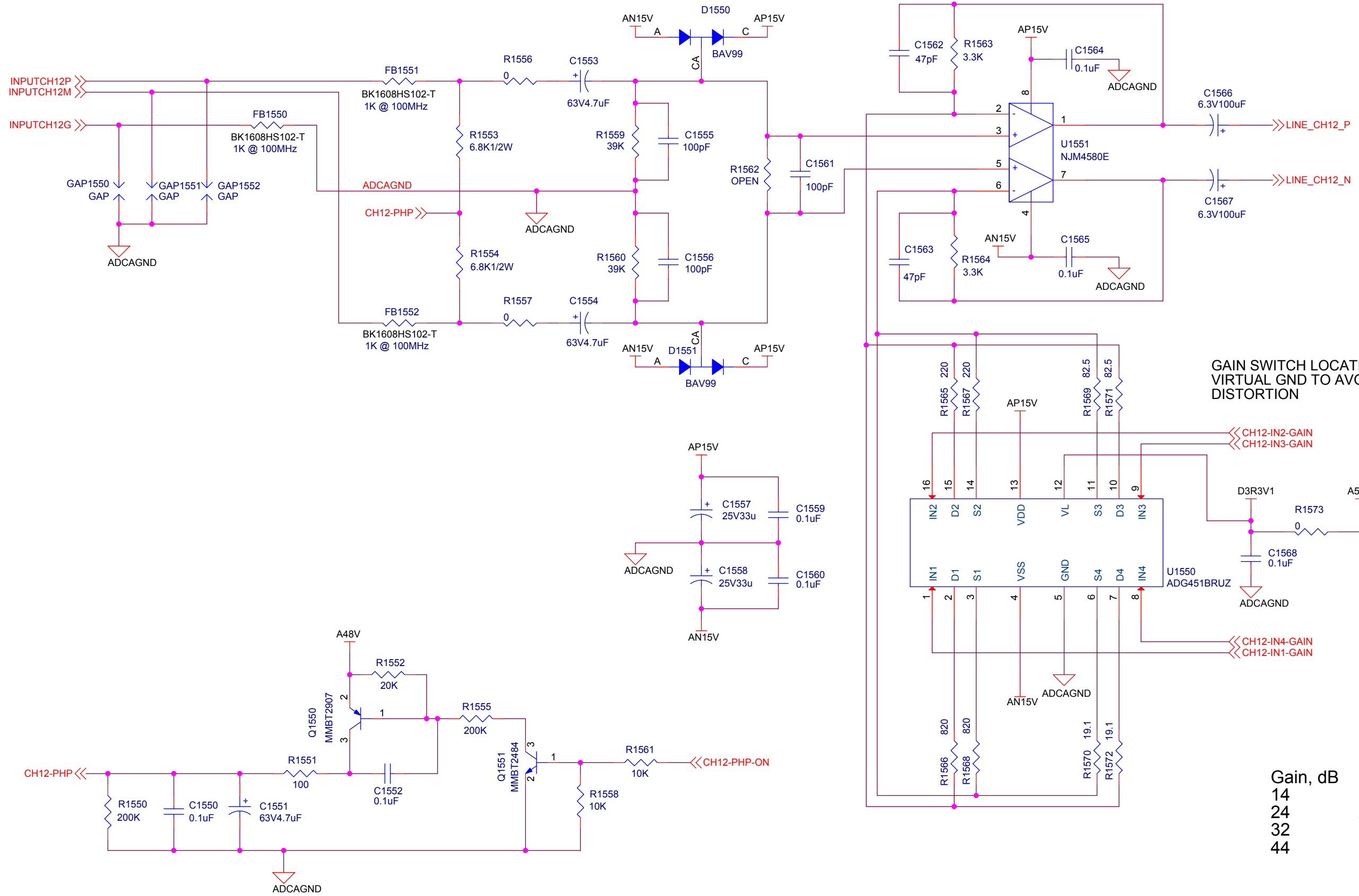
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

INPUT BUFFER CHANNEL 11

SAFETY CONTROLLED

ControlSpace EX 1280C
 Audio Input PCB Assembly
 PCB P/N: 772391-001S
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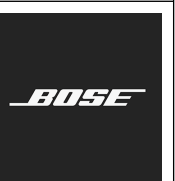
GAIN SWITCH LOCATED AT VIRTUAL GND TO AVOID DISTORTION

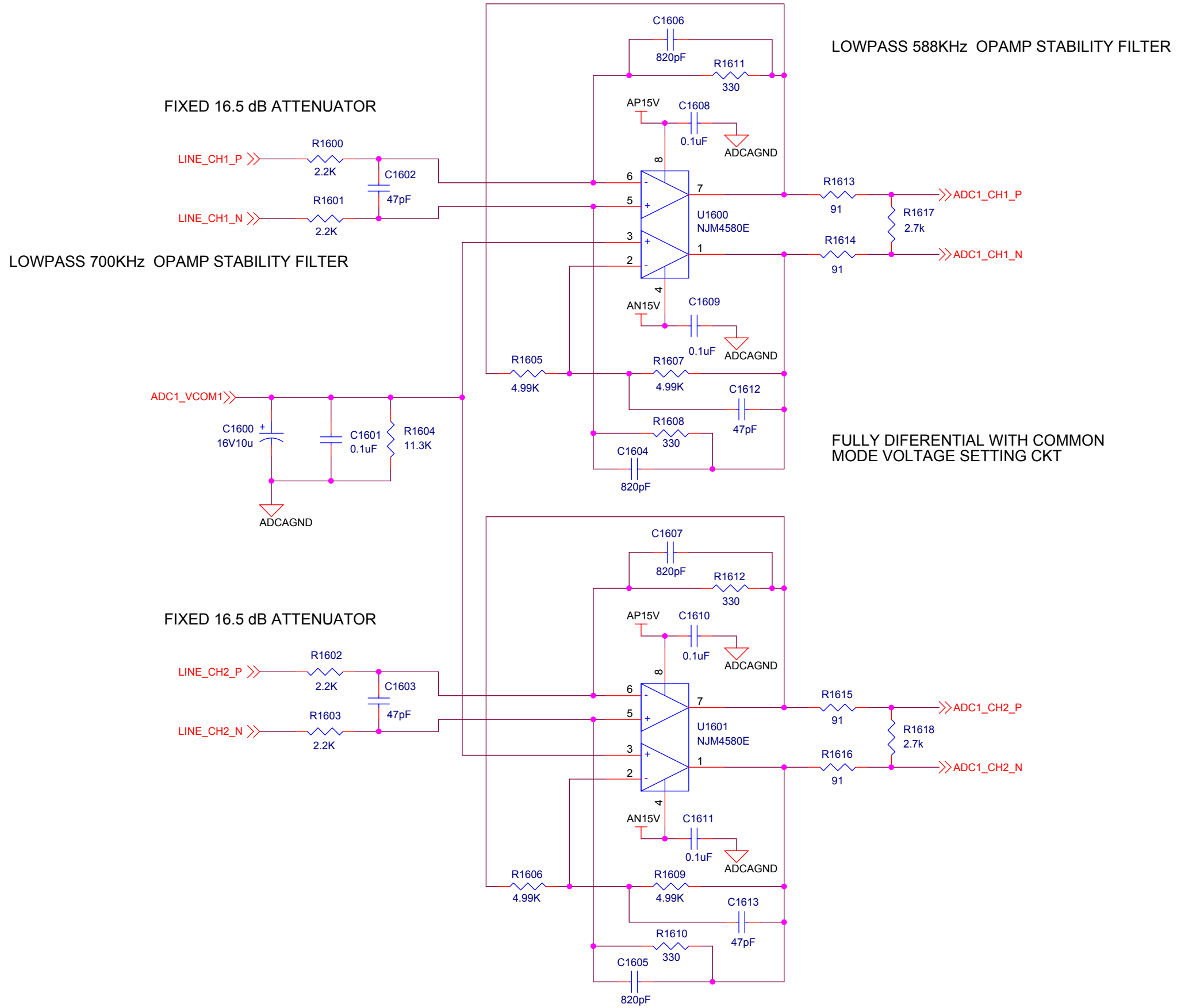
Gain, dB	R (2 each)
14	820
24	220
32	82.5
44	19.1

INPUT BUFFER CHANNEL 12

SAFETY CONTROLLED

ControlSpace EX 1280C
 Audio Input PCB Assembly
 PCB P/N: 772391-001S
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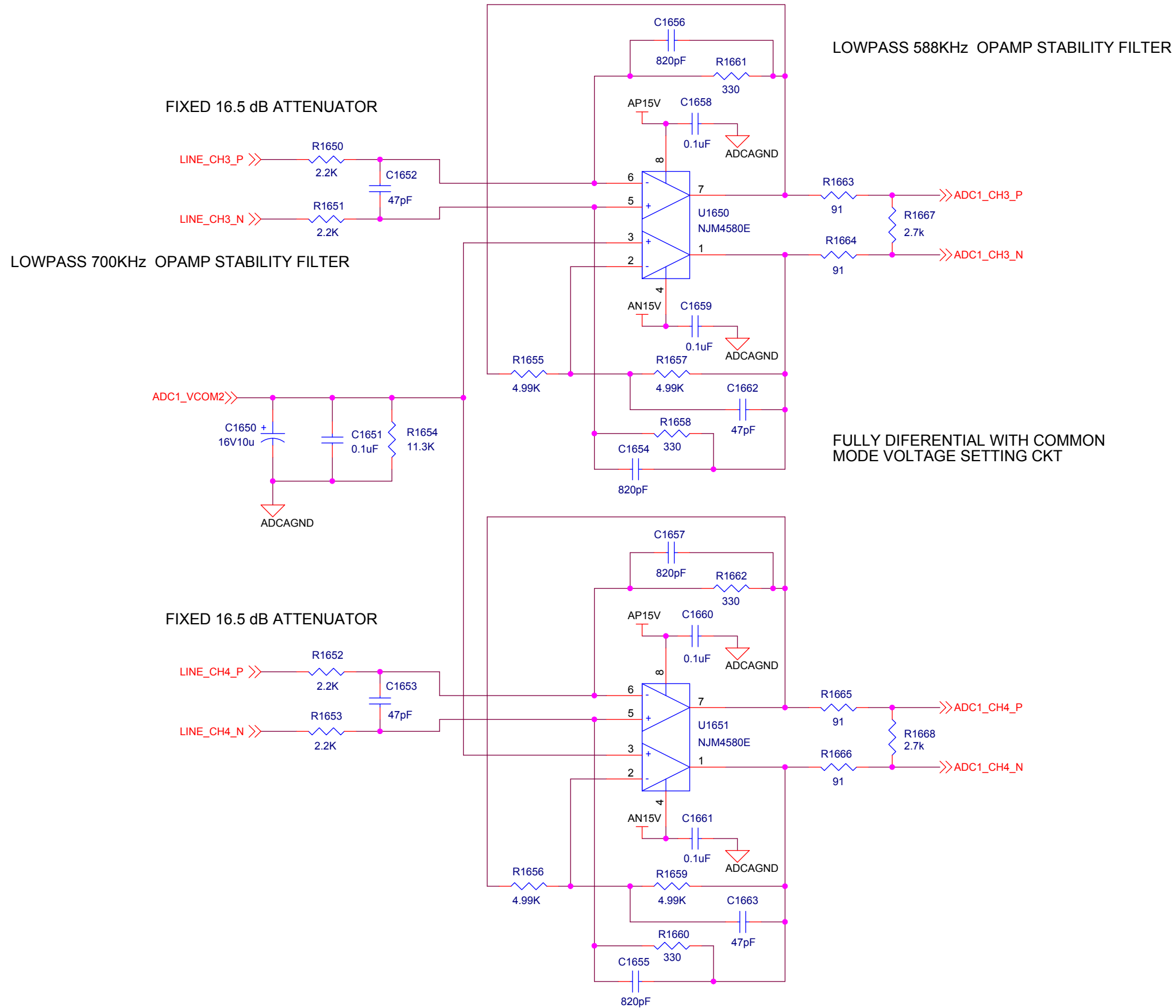


SAFETY CONTROLLED

ControlSpace EX 1280C
 Audio Input PCB Assembly
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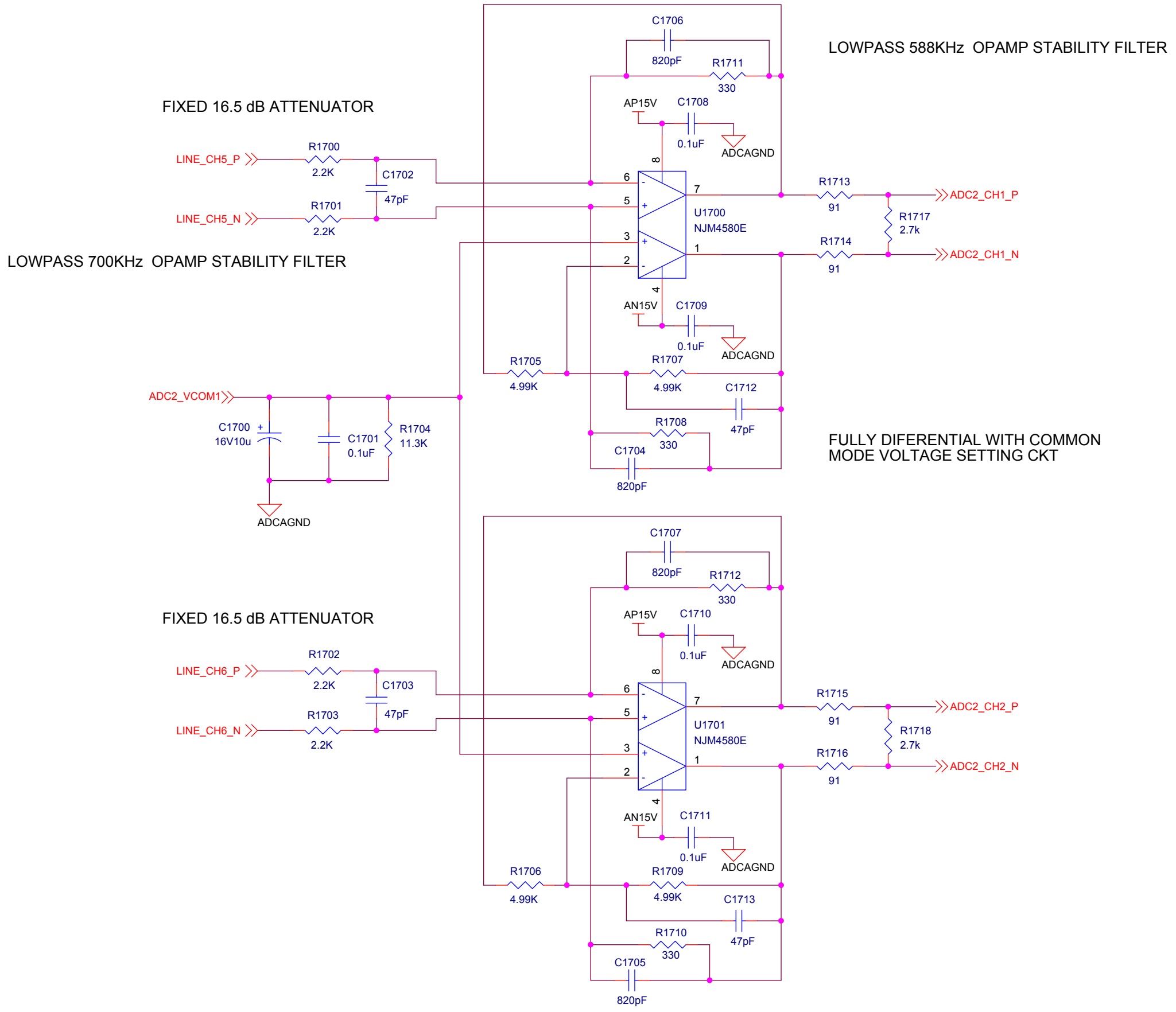
FILTER CHANNEL 1/2



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ControlSpace EX 1280C
 Audio Input PCB Assembly
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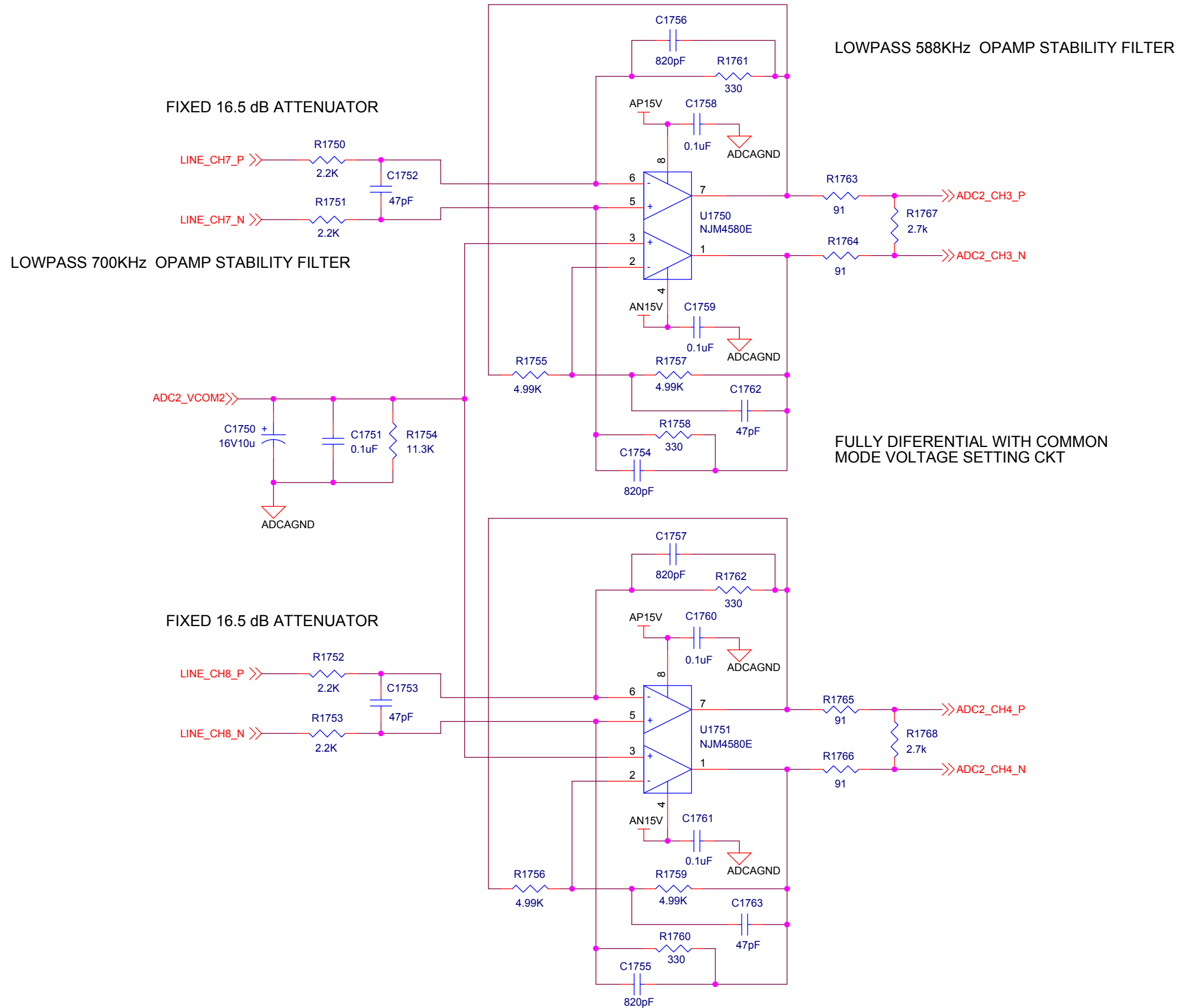


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ControlSpace EX 1280C
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FILTER CHANNEL 5/6

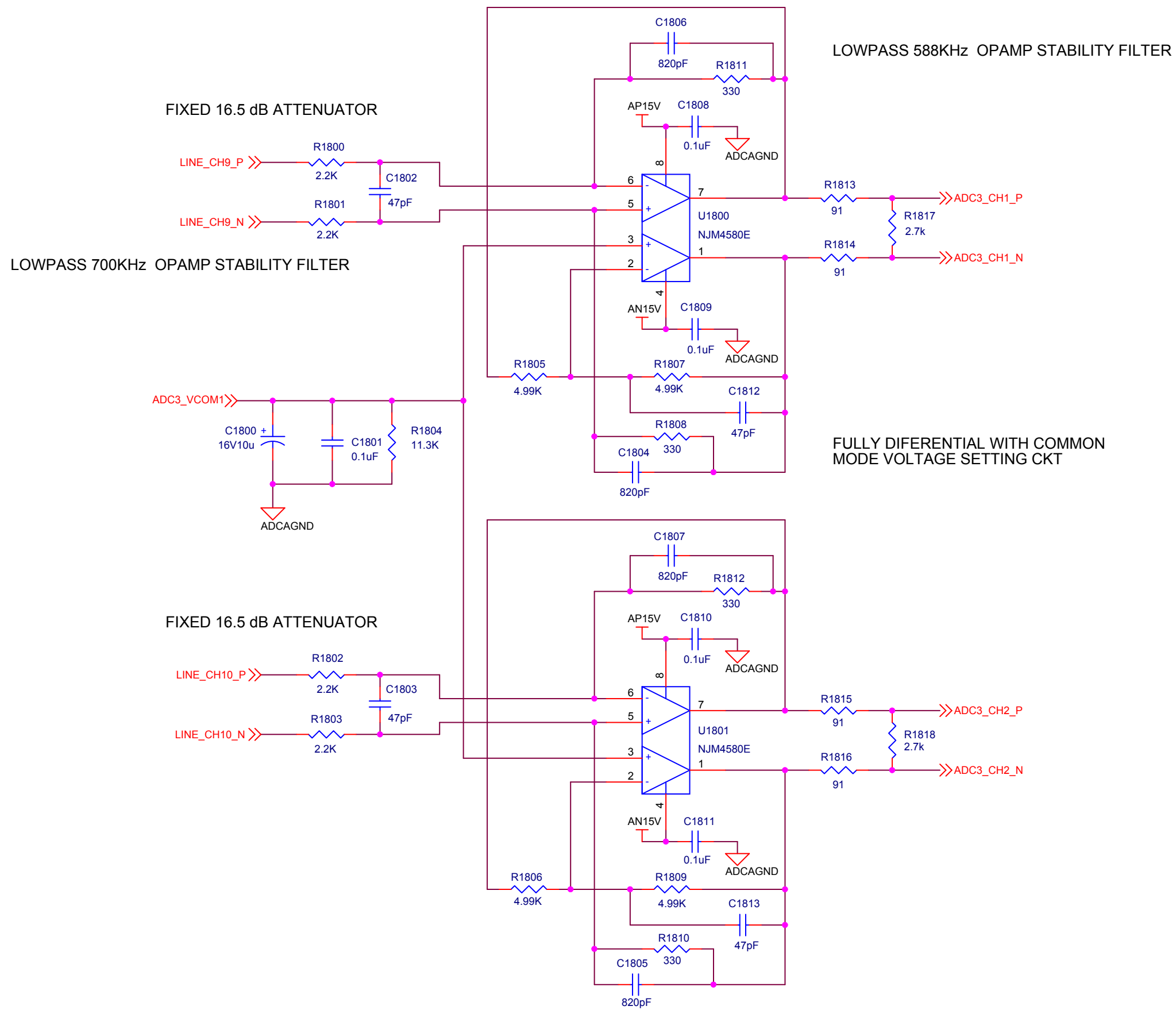


SAFETY CONTROLLED

ControlSpace EX 1280C
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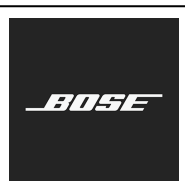


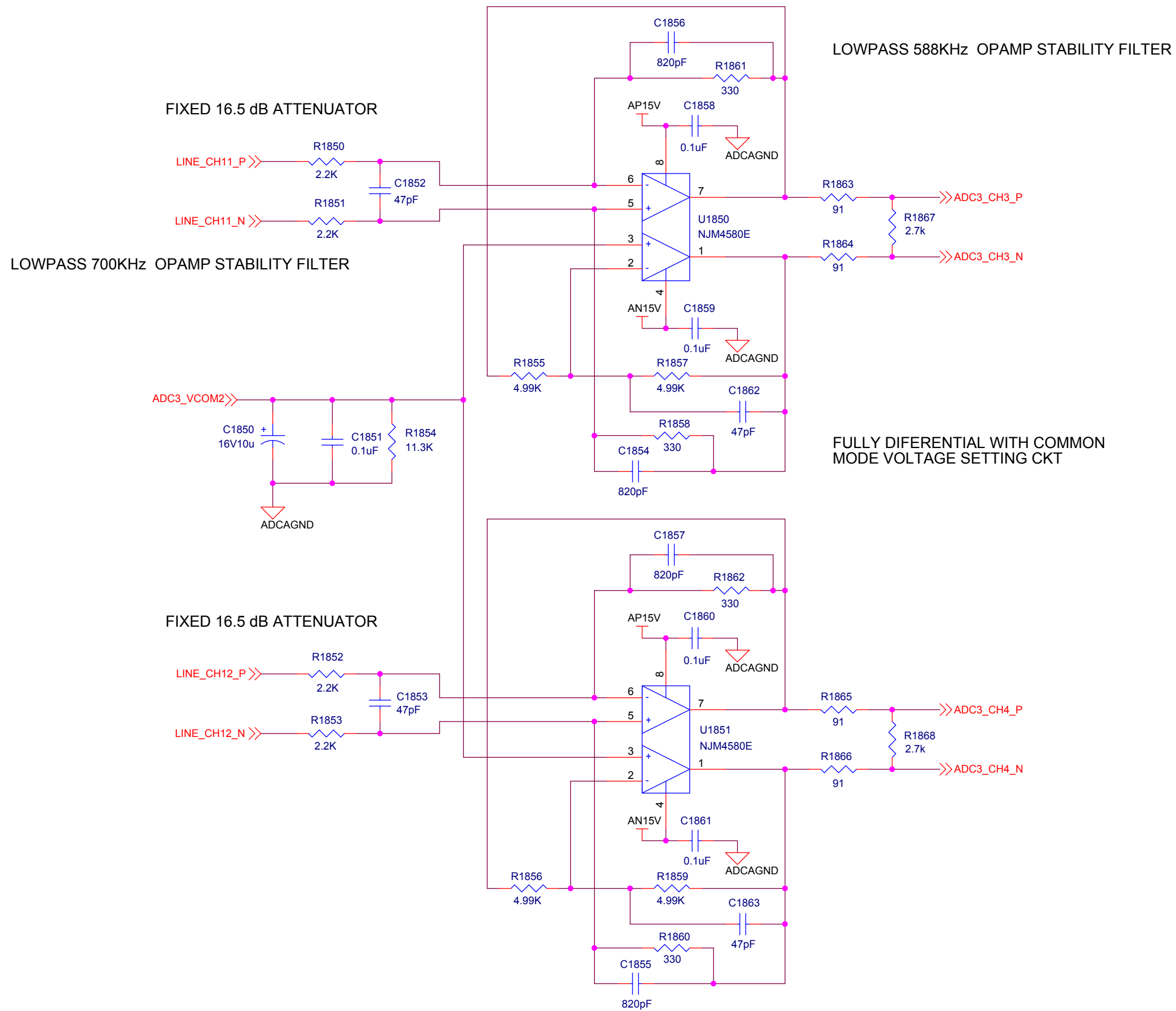
FILTER CHANNEL 7/8



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ControlSpace EX 1280C
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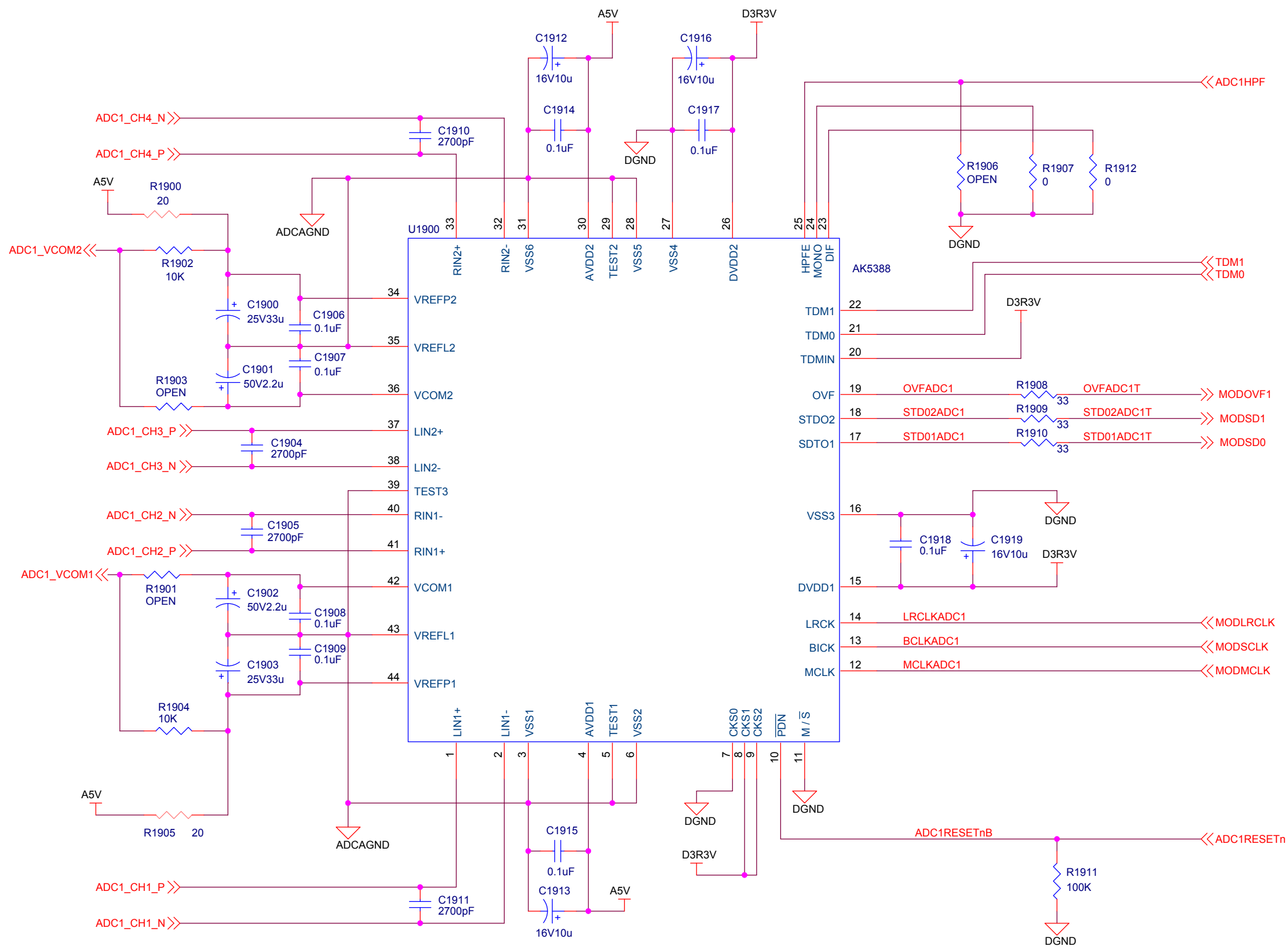


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ControlSpace EX 1280C
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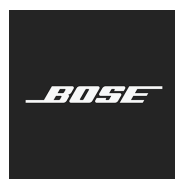
FILTER CHANNEL 11/12



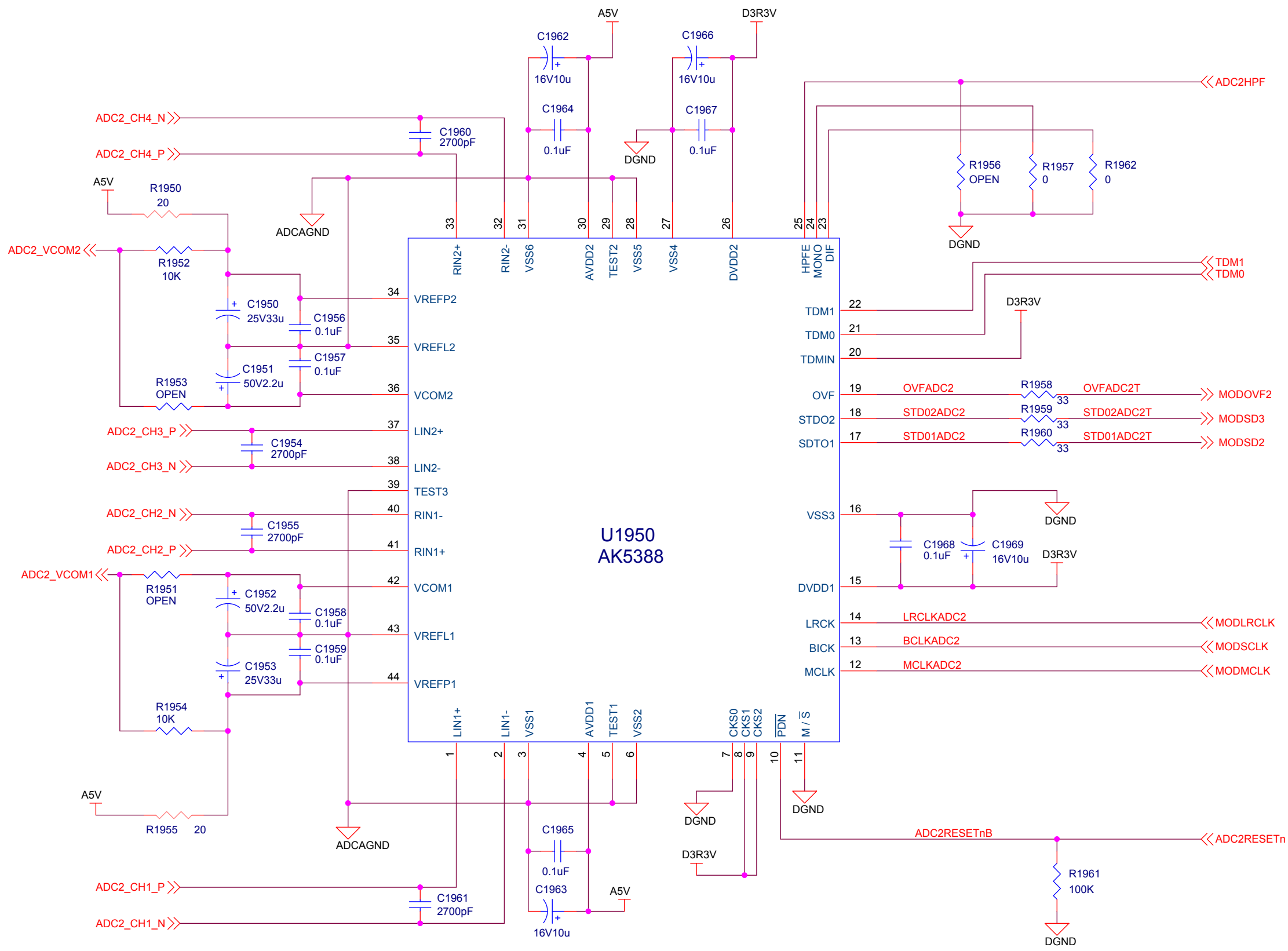
Pull down of MODMCLK, MODSCLK
MODLRCK is moved to connector
page.

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ControlSpace EX 1280C
Audio Input PCB Assembly
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ADC CHANNEL 1-4



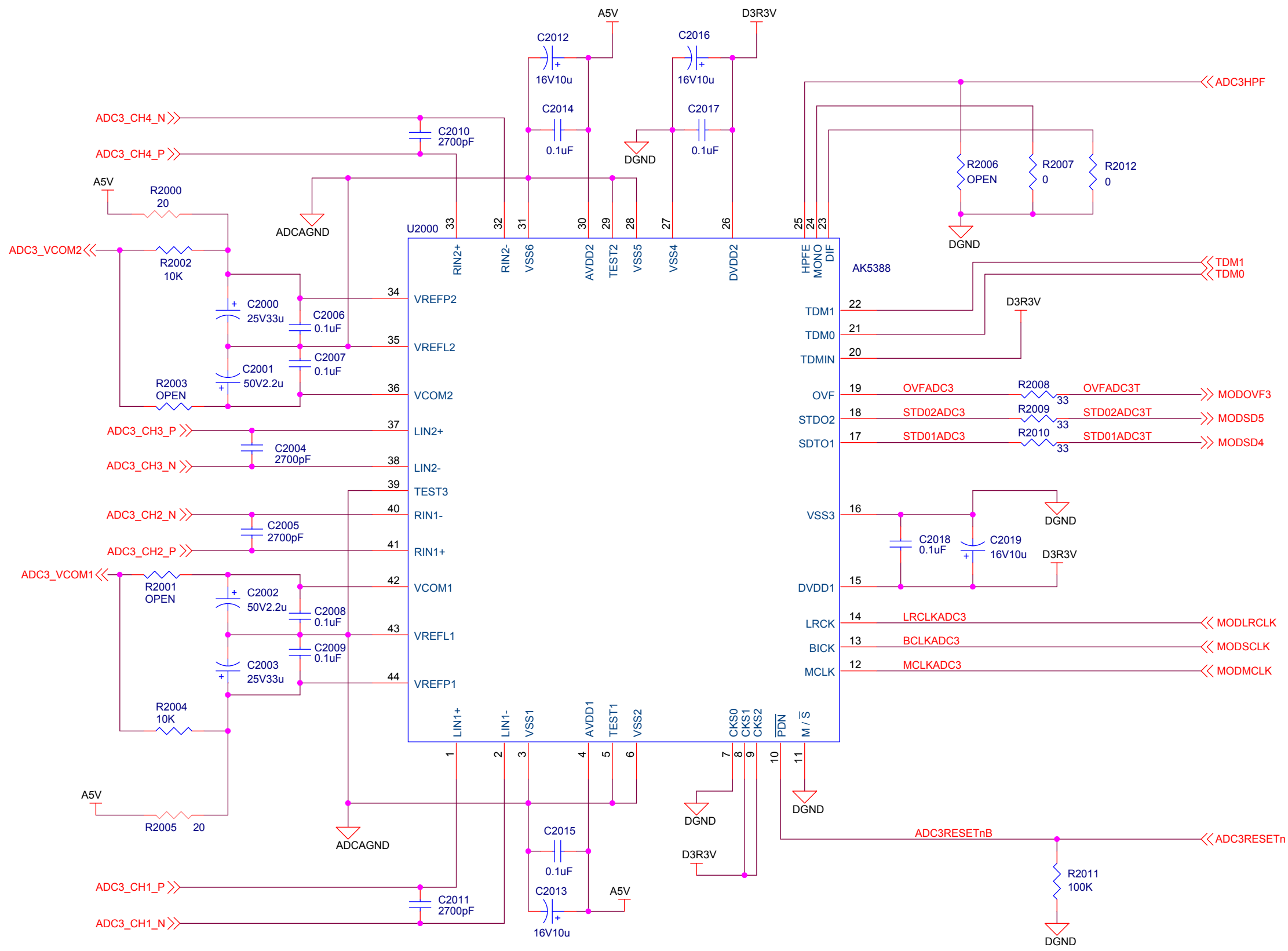
Pull down of MODMCLK, MODSCLK
 MODLRCK is moved to connector
 page.

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ControlSpace EX 1280C
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ADC CHANNEL 5-8



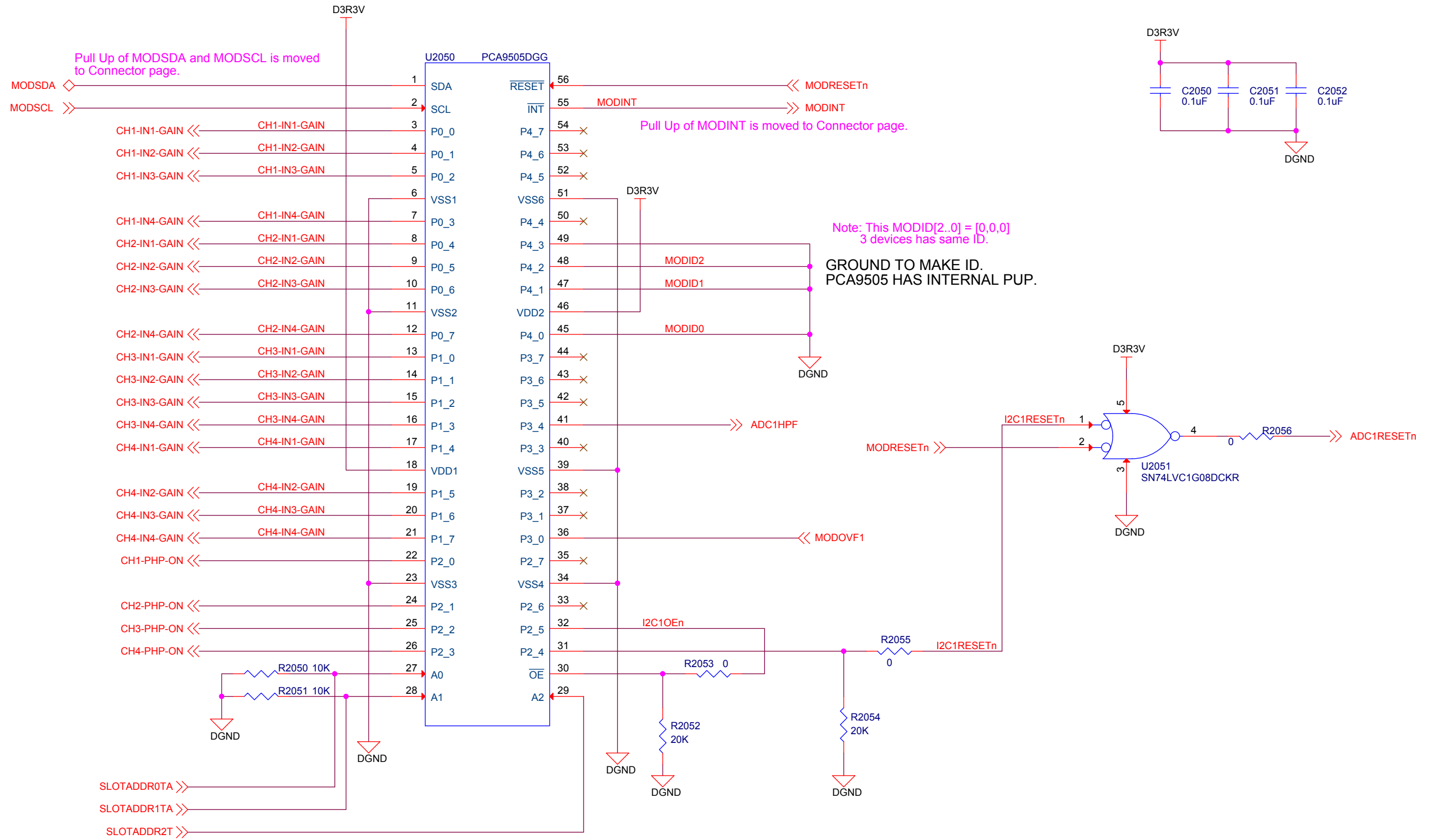
Pull down of MODMCLK, MODSCLK
 MODLRCK is moved to connector
 page.

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ADC CHANNEL 9-12



Pull Up of MODSDA and MODSCL is moved to Connector page.

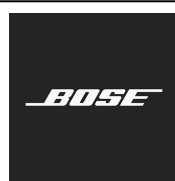
Pull Up of MODINT is moved to Connector page.

Note: This MODID[2..0] = [0,0,0] 3 devices has same ID. GROUND TO MAKE ID. PCA9505 HAS INTERNAL PUP.

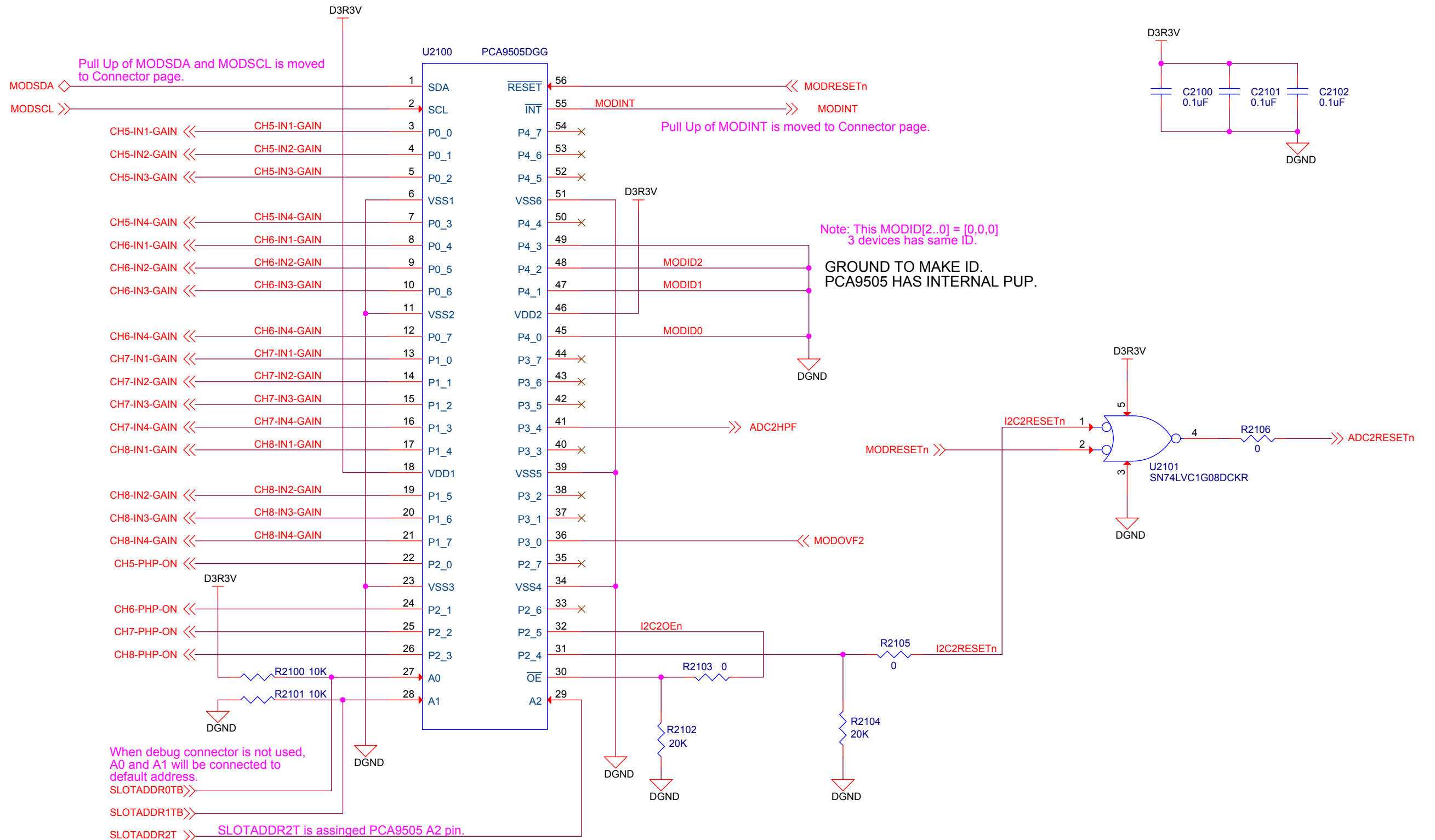
PCA9505 I/O Addr - 0100X00
PCA9505 HAS 100K PULL-UPS ON ALL IO PINS

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ControlSpace EX 1280C
Audio Input PCB Assembly
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I2C CHANNEL 1-4



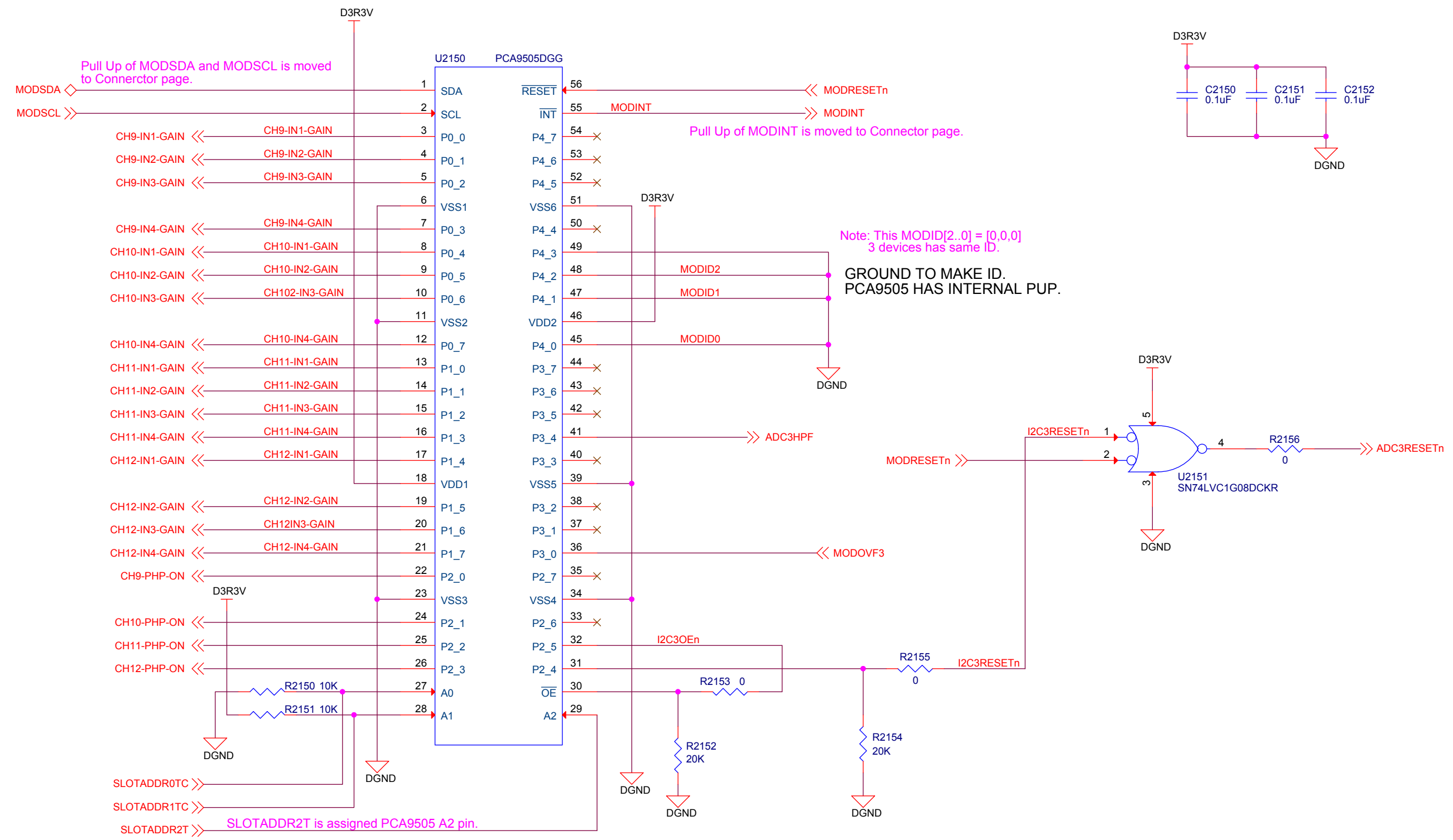
PCA9505 I/O Addr - 0100X01
 PCA9505 HAS 100K PULL-UPS ON ALL IO PINS

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ControlSpace EX 1280C
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 PCB P/N: 772391-001S
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I2C CHANNEL 5-8

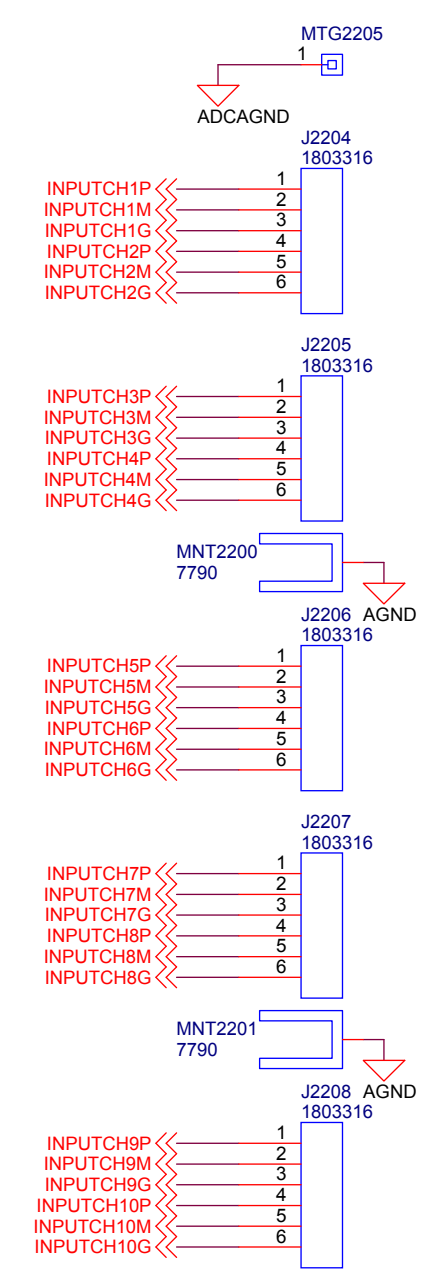
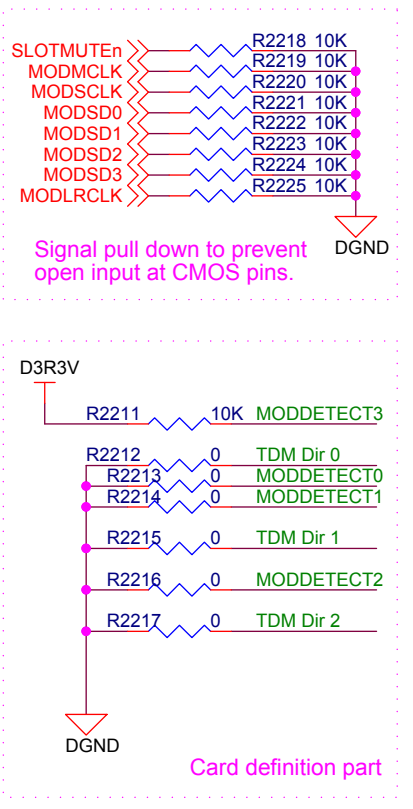
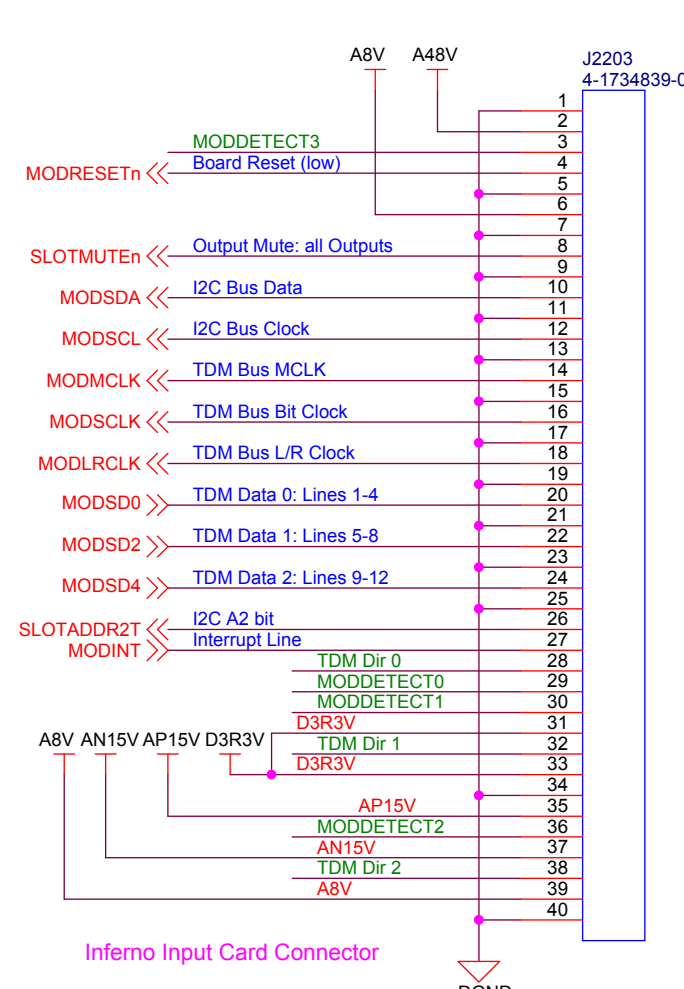
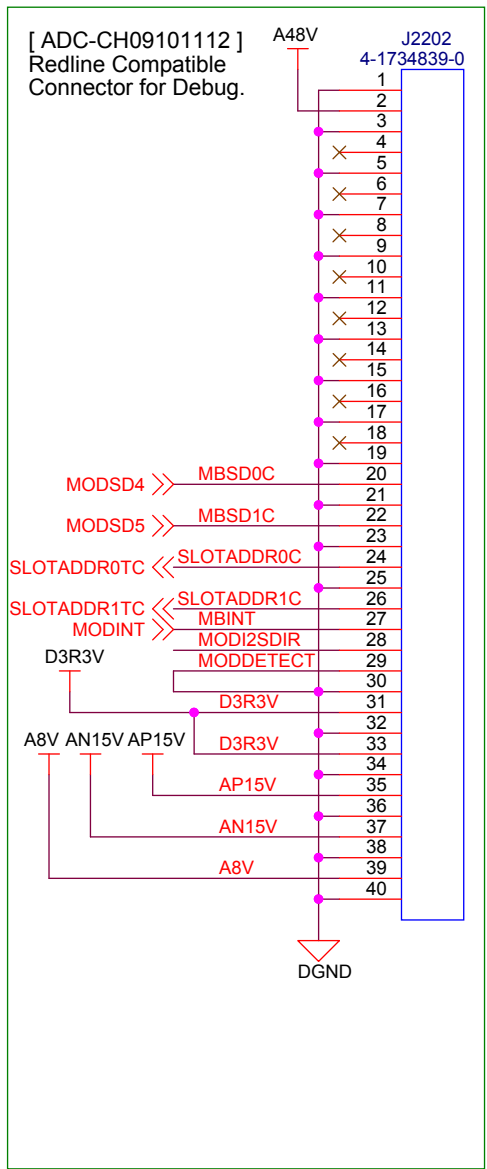
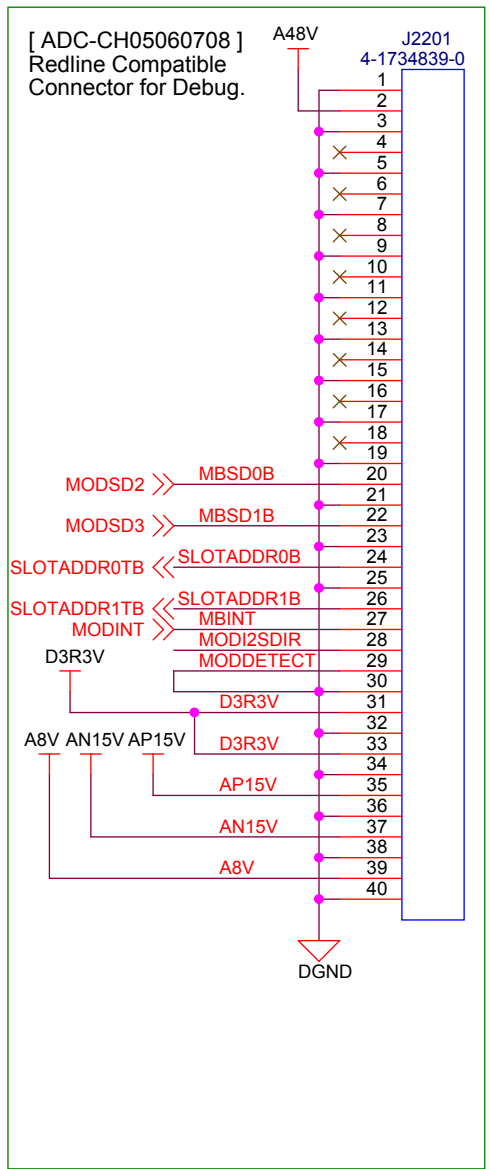
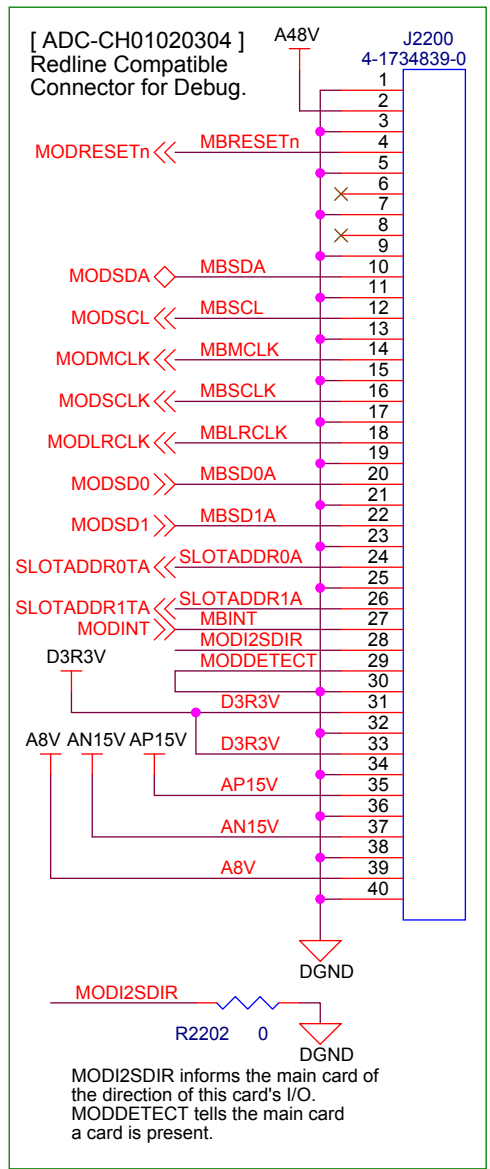


PCA9505 I/O Addr - 0100X10
 PCA9505 HAS 100K PULL-UPS ON ALL IO PINS

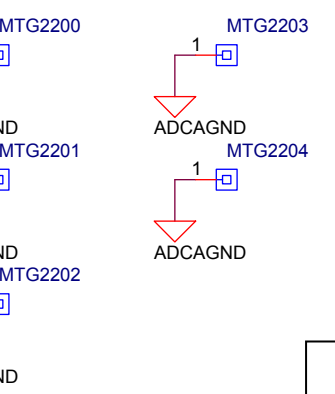
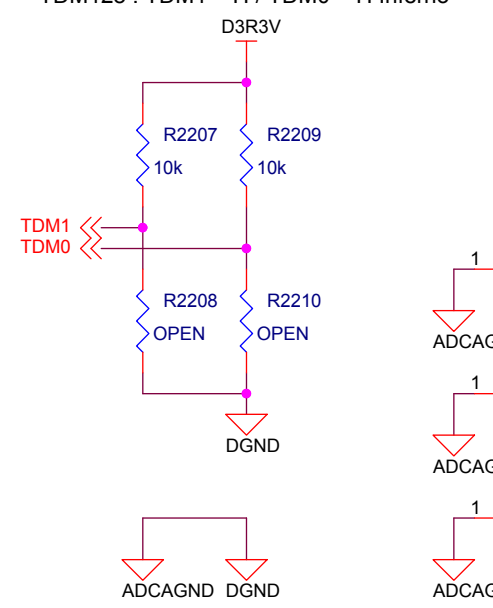
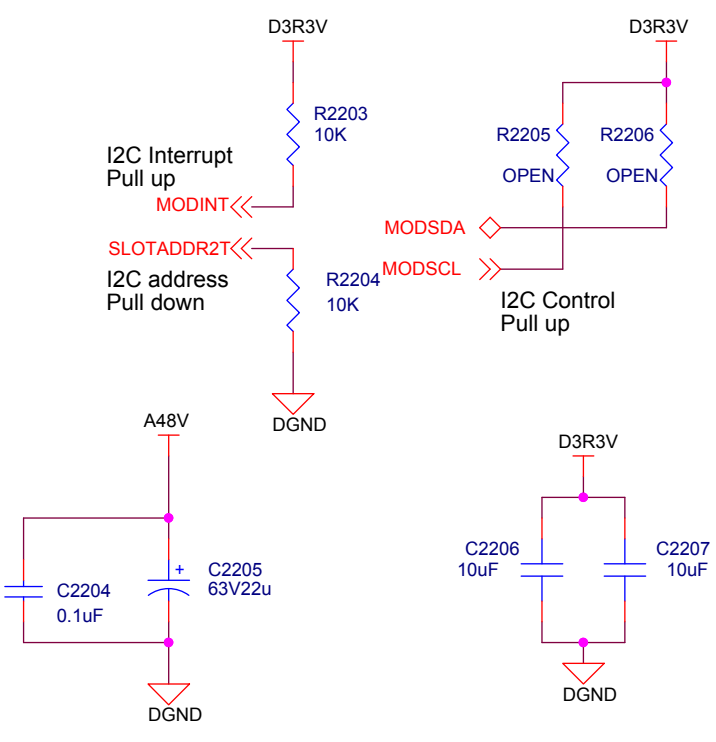
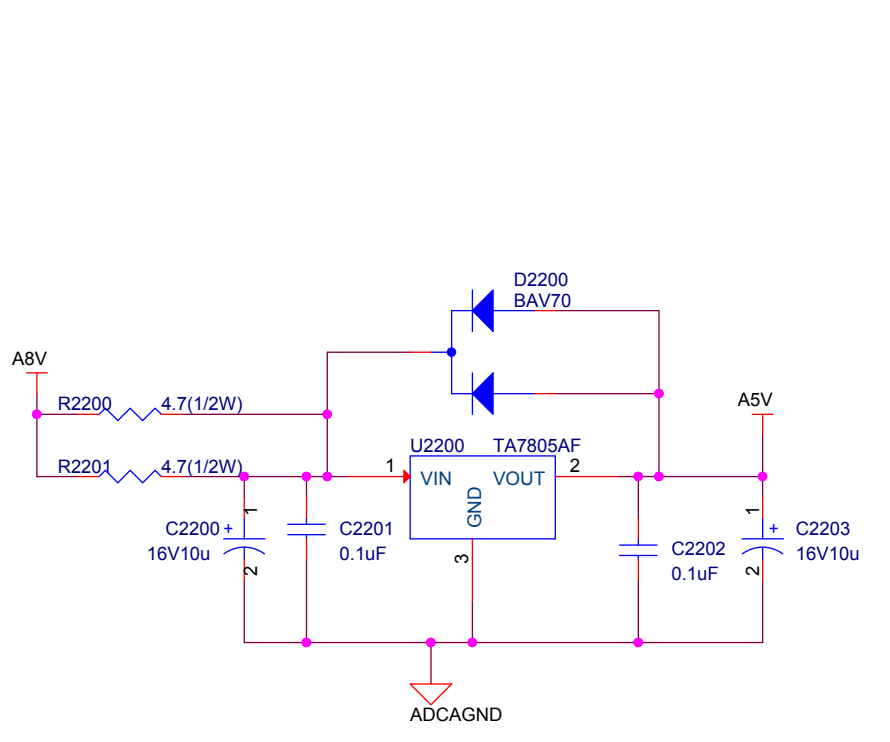
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Audio data mode setting
Normal : TDM1 = L / TDM0 = L (LJ) Redline
TDM256 : TDM1 = L / TDM0 = H
TDM128 : TDM1 = H / TDM0 = H Inferno



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CONNECTORS