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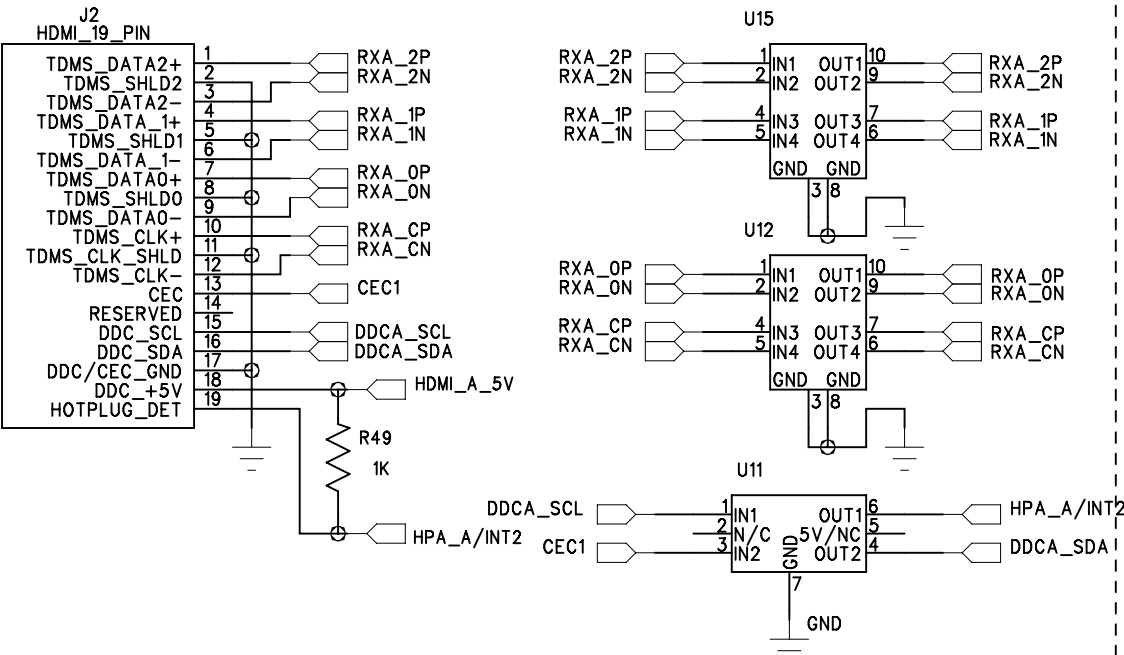
4

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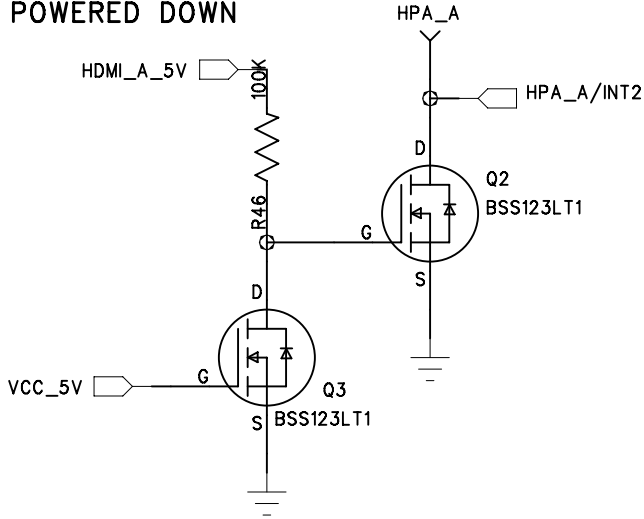
1

HDMI Port A – Connector and ESD Suppression



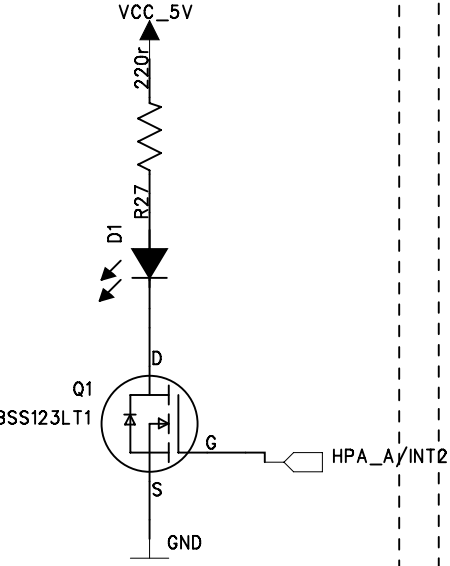
HPD A

SHORTS HPA_A TO GND WHEN BOARD POWERED DOWN

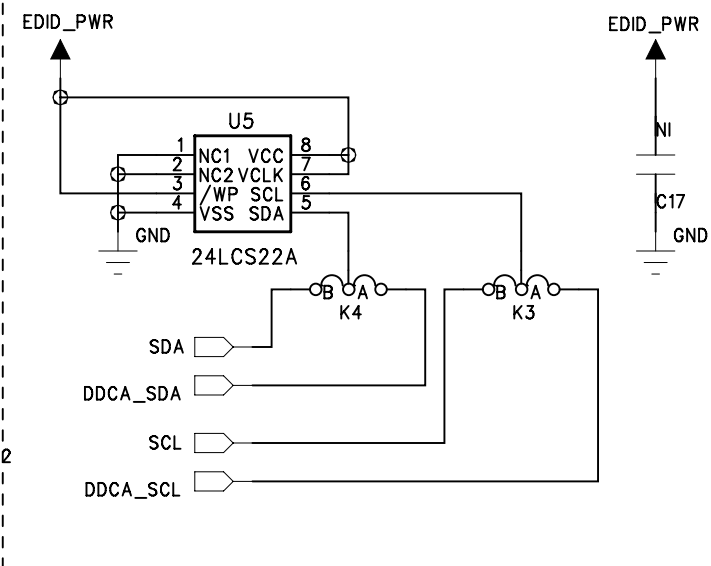


INSERT THIS ONLY WHEN NO EXT. EDID

HPD A LED



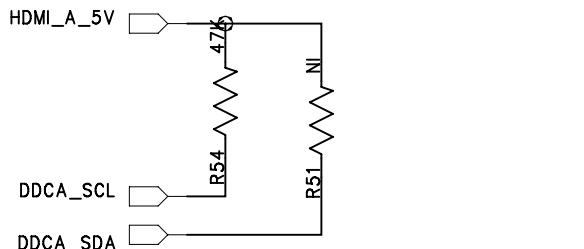
EXT EDID1



INSERT ONLY ONE: U14 OR Q4

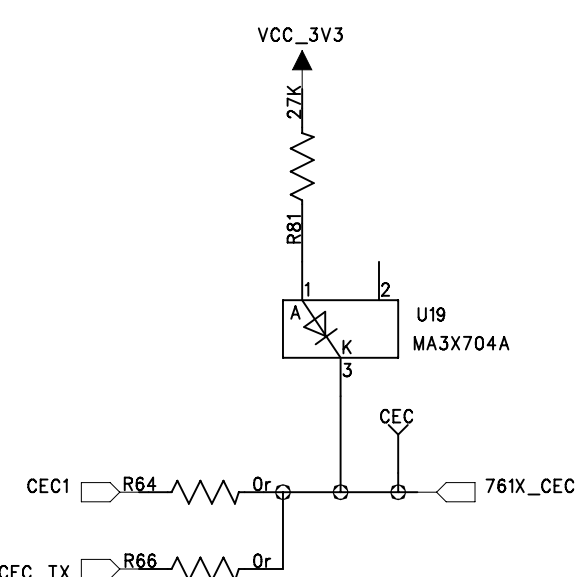
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

DDC A Circuitry



DDC lines should be as short as possible to DUT
The 0 ohm resistors on these lines should be placed to minimise track length.

CEC To 168-Pin Connector



OPTION:	R36	U14
	Q7	
EXTERNAL EDID	Q6	
	U14	
NO EXTERNAL EDID	–	INSERT
	INSERT	–

COMPANY: Analog Devices			
TITLE: ATV Group			
ADV7610 Eval Board: HDMI Connector Sheet 1			
CODE:	SIZE:	DRAWING NO:	REV: 0
SCALE:			SHEET: 1 of 9

DRAWN:	DATED: 06/21/2012
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

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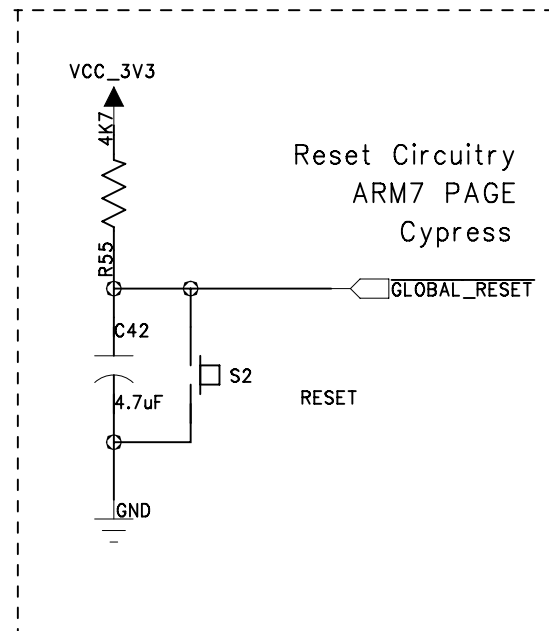
2

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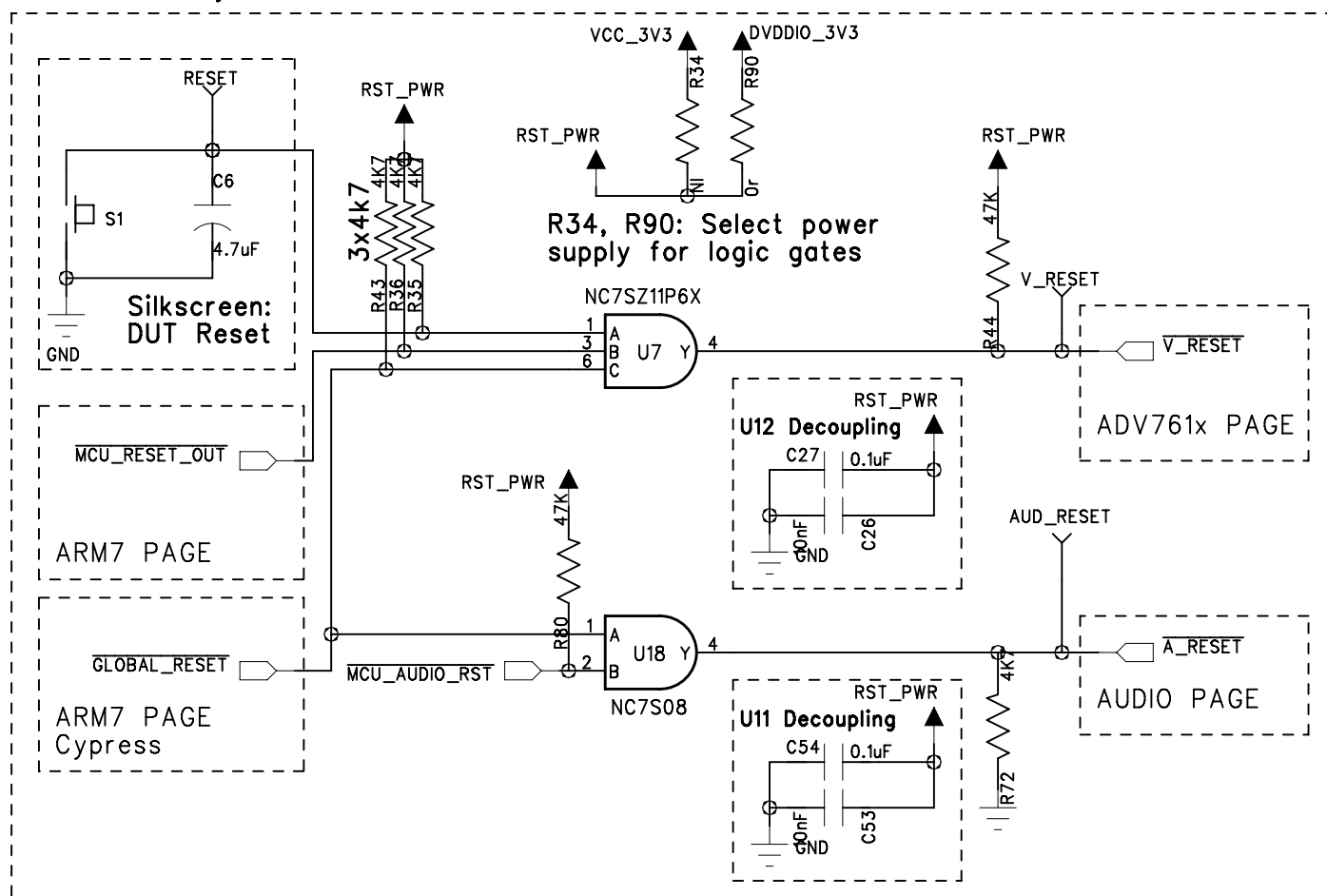
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

D

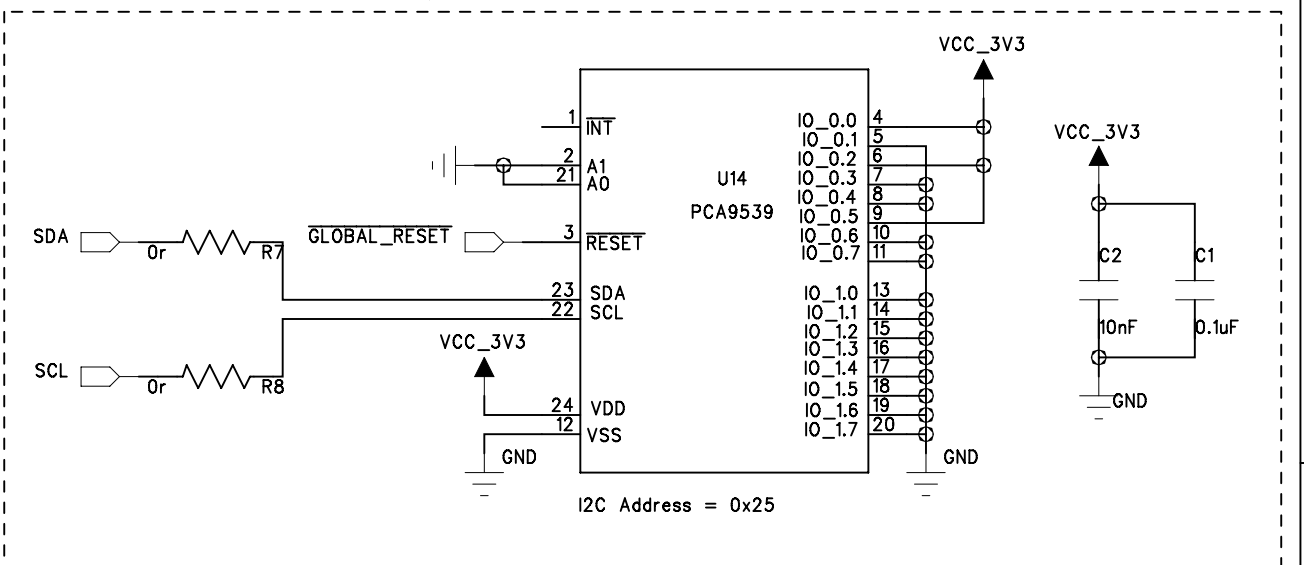
Global Reset



Reset Circuitry



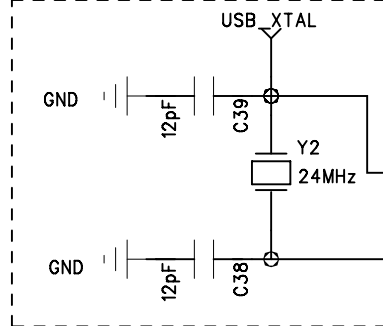
Board Identification Bus Expander



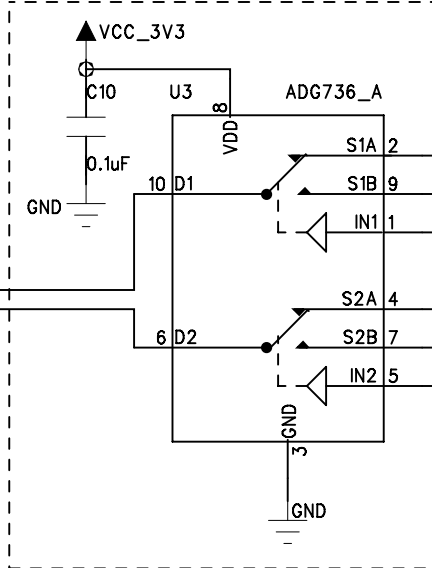
D

C

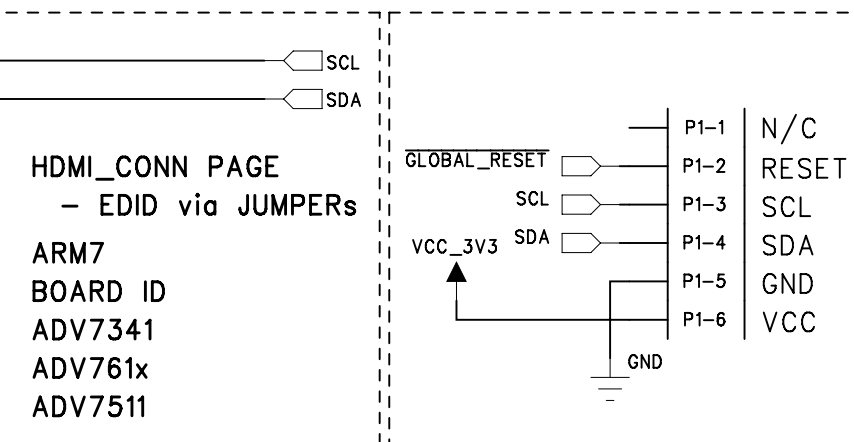
XTAL CIRCUITRY



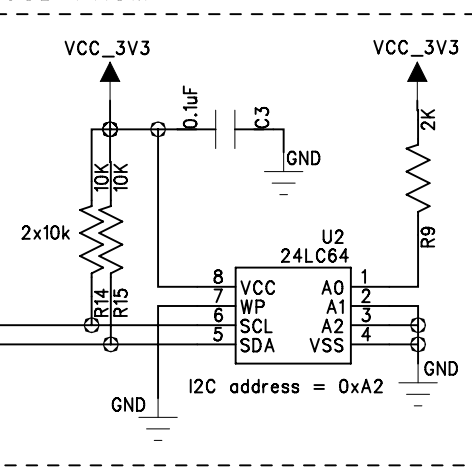
I2C SWITCH



BOARD PERIPHER. I2C Header

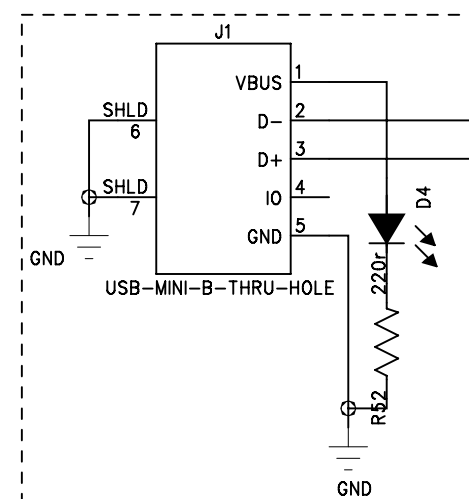


USB PROM

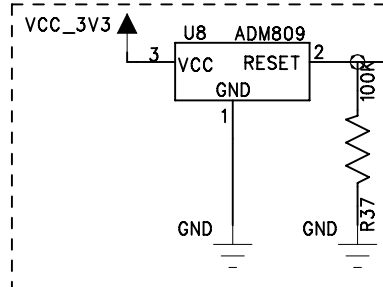


B

USB CONNECTOR



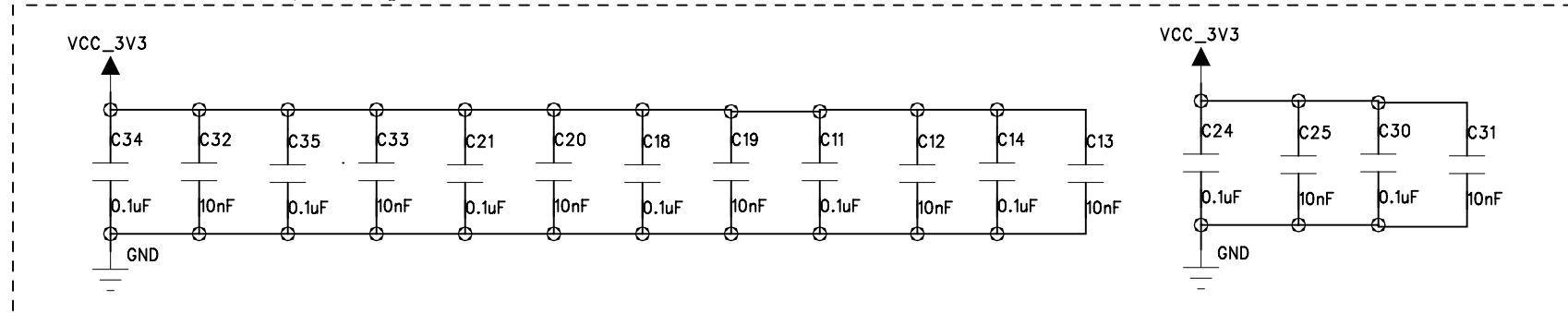
RESET CIRCUITRY



Line controls I2C switch:
0 = PROM
1 = BOARD
After loading the PROM
into Cypress - line is
programmed HI

A

U19 Decoupling



COMPANY: Analog Devices

TITLE: ATV Group

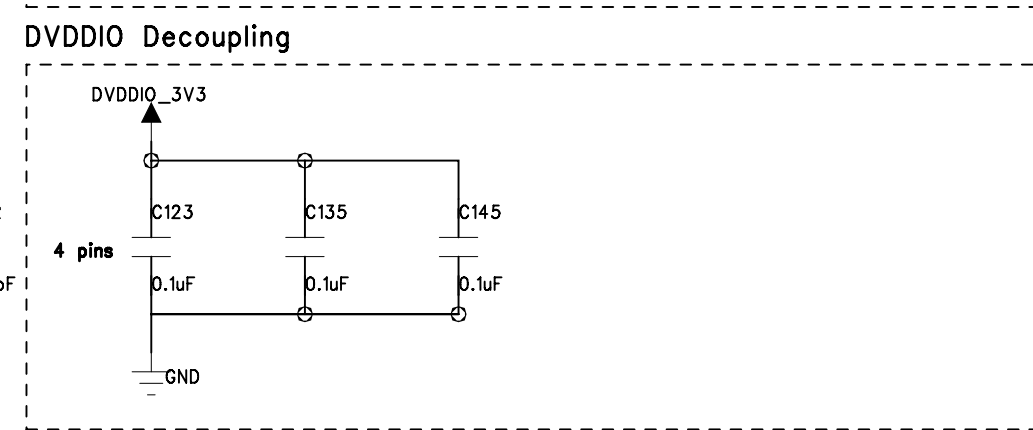
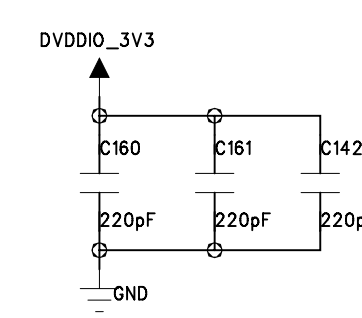
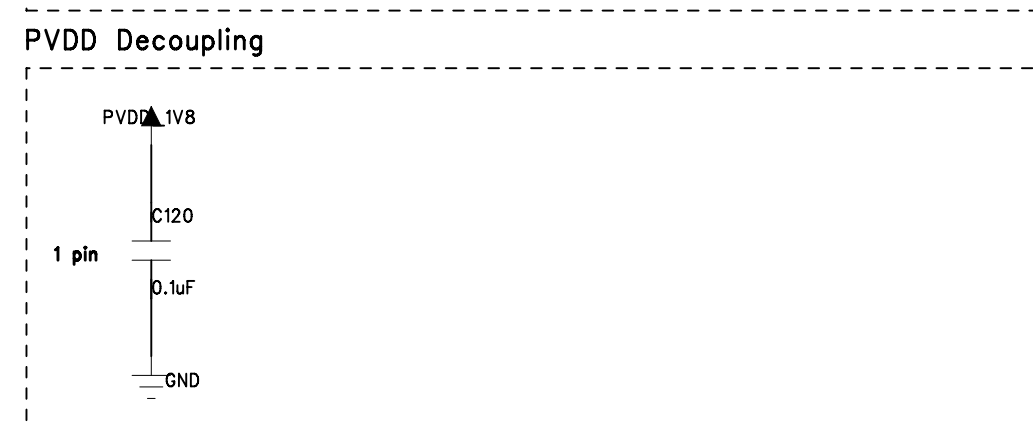
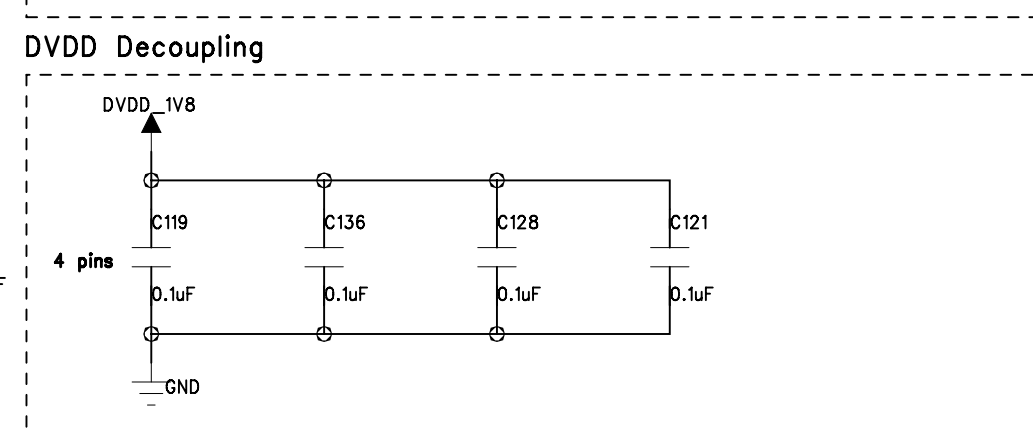
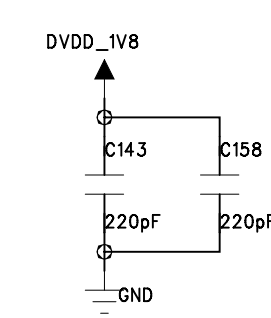
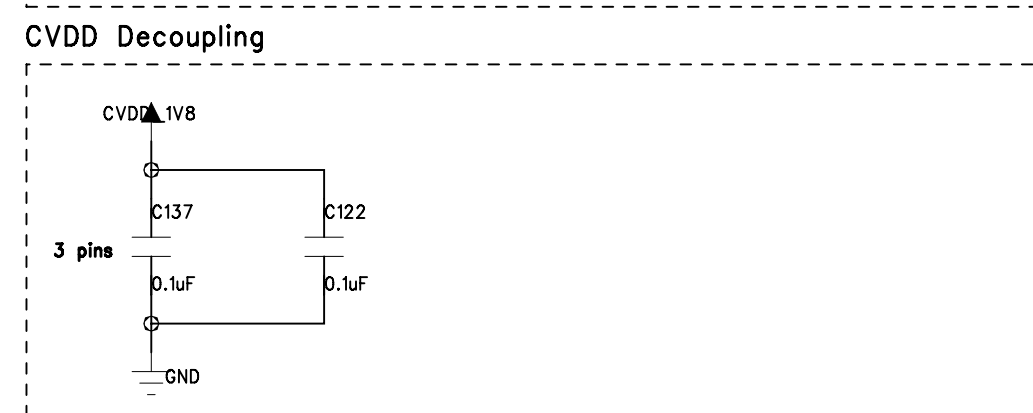
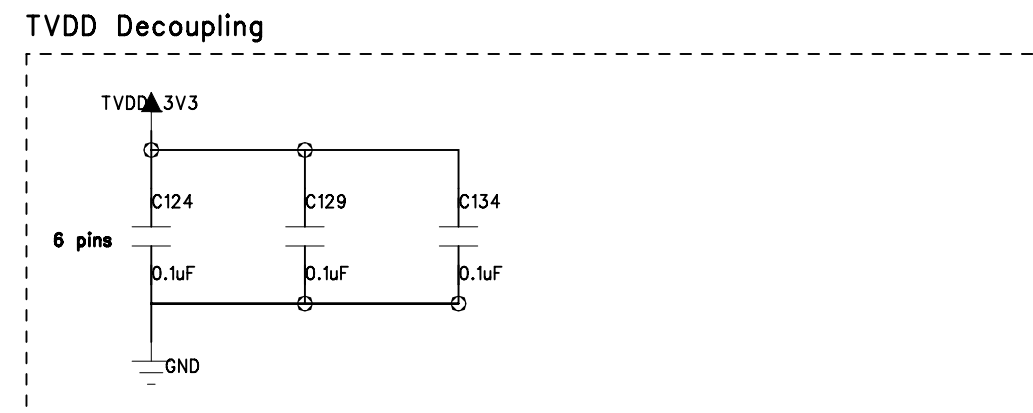
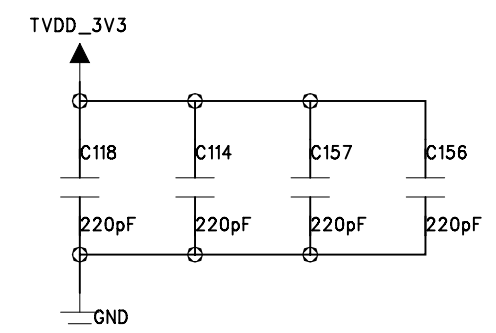
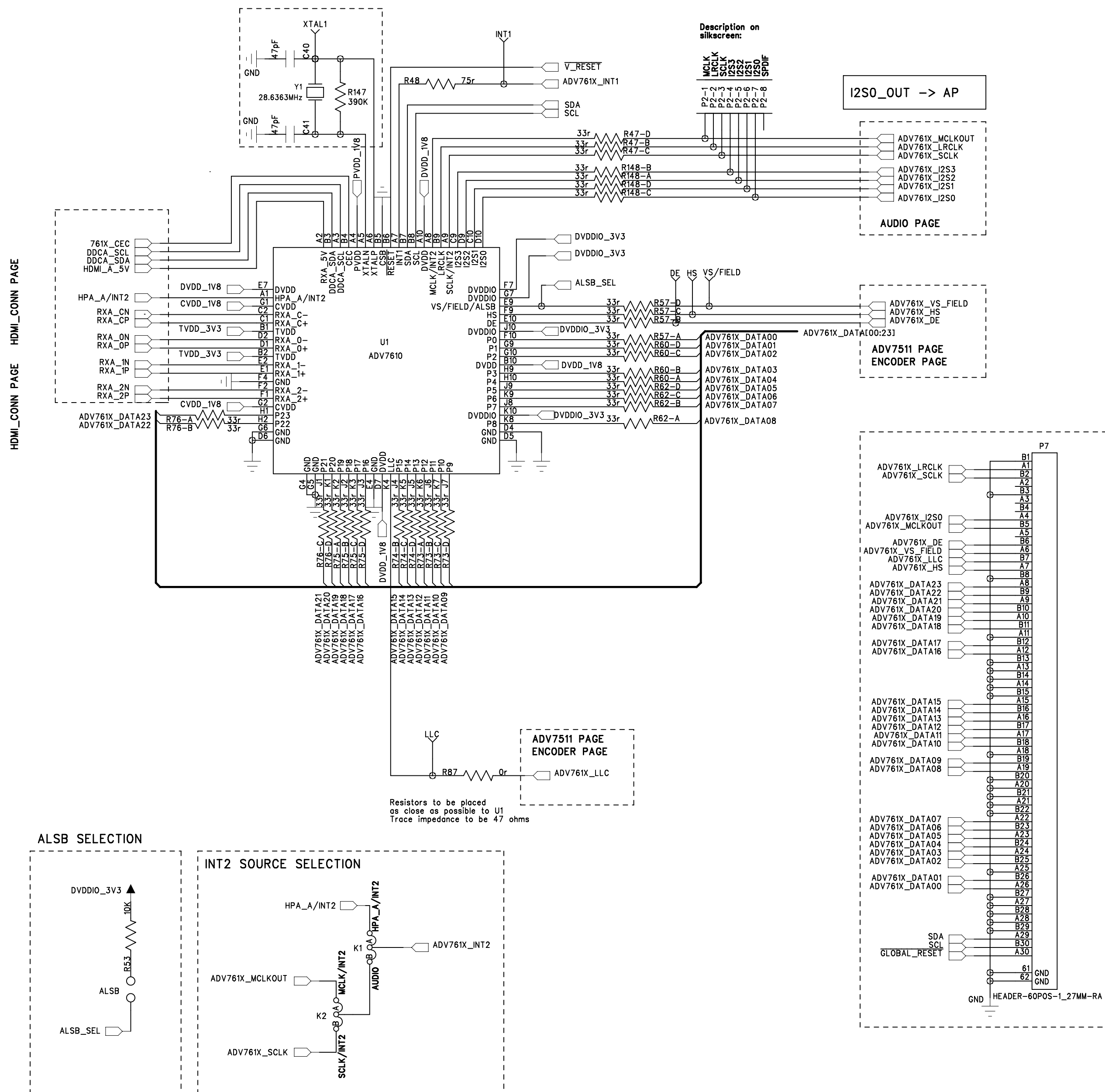
ADV7610 Eval Board:
USB+RESET

DRAWN:	DATED: 06/21/2012
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

CODE:	SIZE:	DRAWING NO:	REV: 0
SCALE:			SHEET: 2 OF 9

A

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



		COMPANY: Analog Devices			
		TITLE: ATV Group			
DRAWN:	DATED: 06/21/2012	ADV7610 Eval Board: ADV761X Sheet			
CHECKED:	DATED:	CODE:	SIZE:	DRAWING NO:	REV:
QUALITY CONTROL:	DATED:				
RELEASED:	DATED:				
		SCALE:			SHEET: 3 OF 9

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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

D

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C

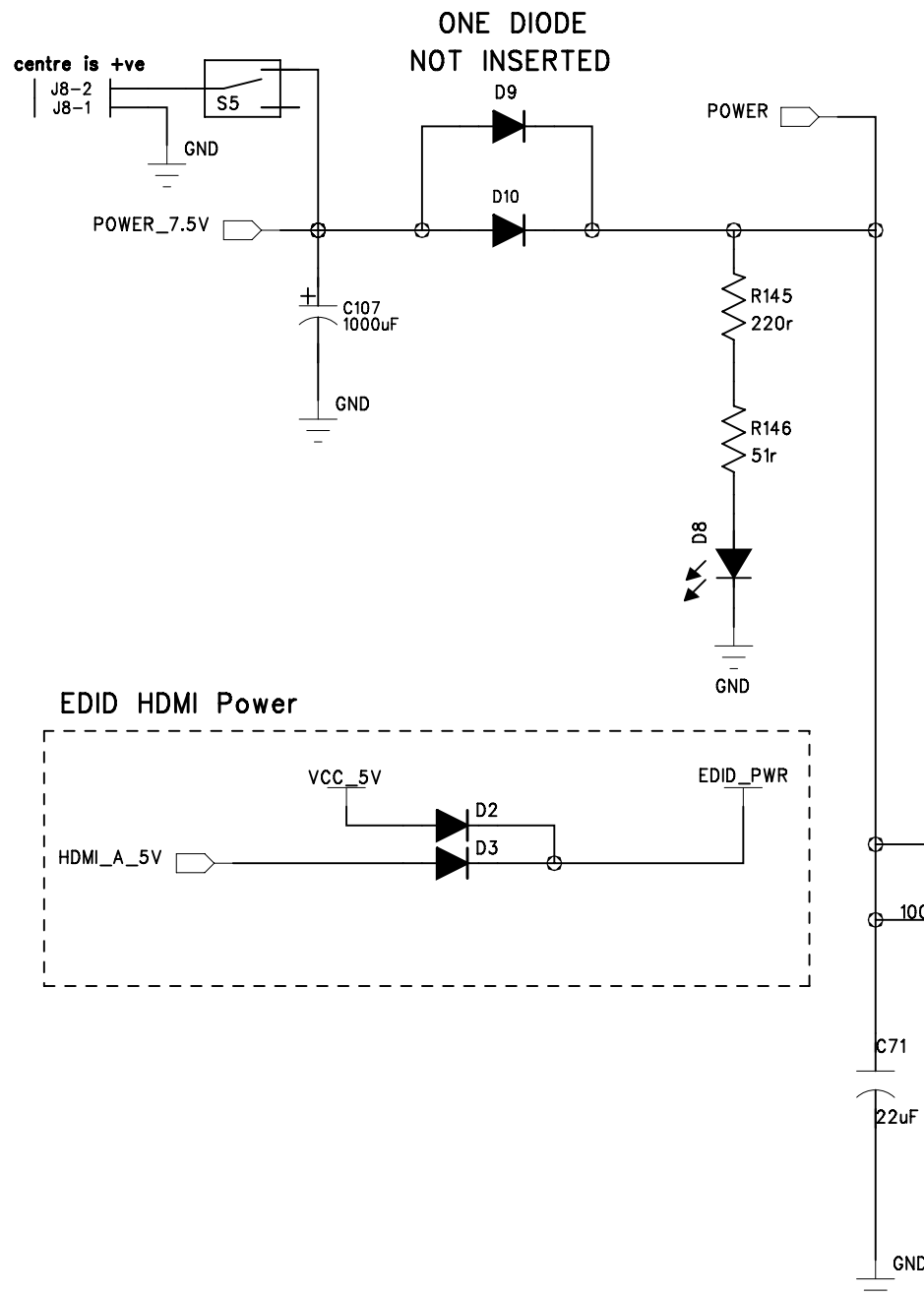
C

B

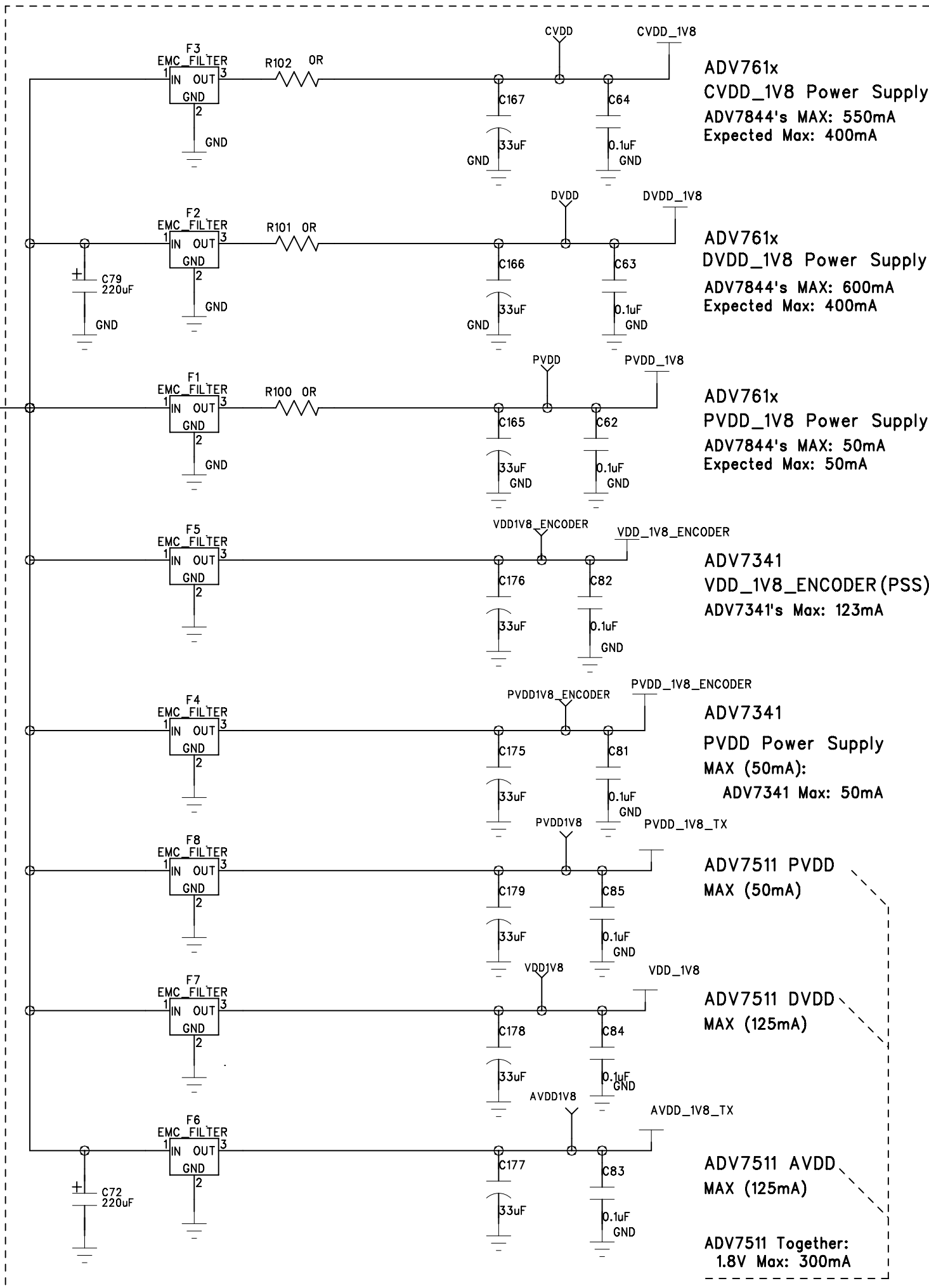
B

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A

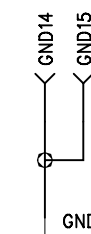


1V8 Power Supply Section



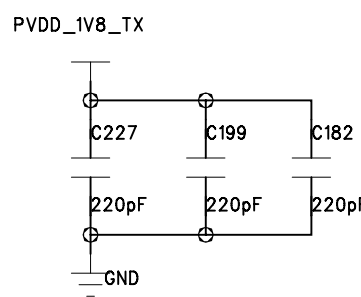
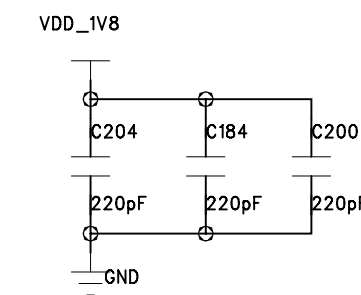
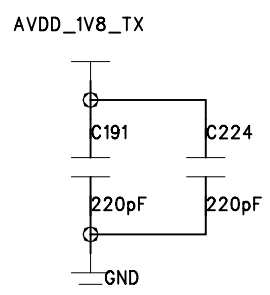
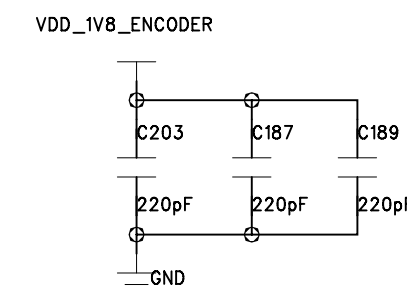
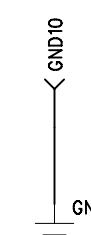
Ground Test Points 2

Locate close to power regulators



Ground Test Points 3

Locate close to LLC pin



COMPANY: Analog Devices			
TITLE: ATV Group			
ADV7610 Eval Board: Board Power Supply Sheet			
CODE:	SIZE:	DRAWING NO:	REV:
			0
SCALE:		SHEET: 4 OF 8	

DRAWN:	DATED: 06/21/2012
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

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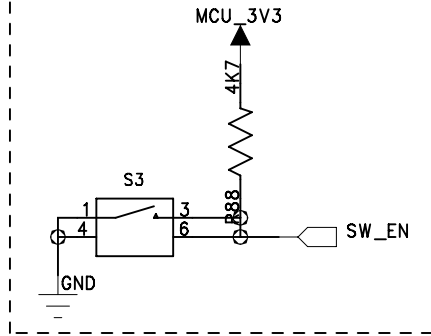
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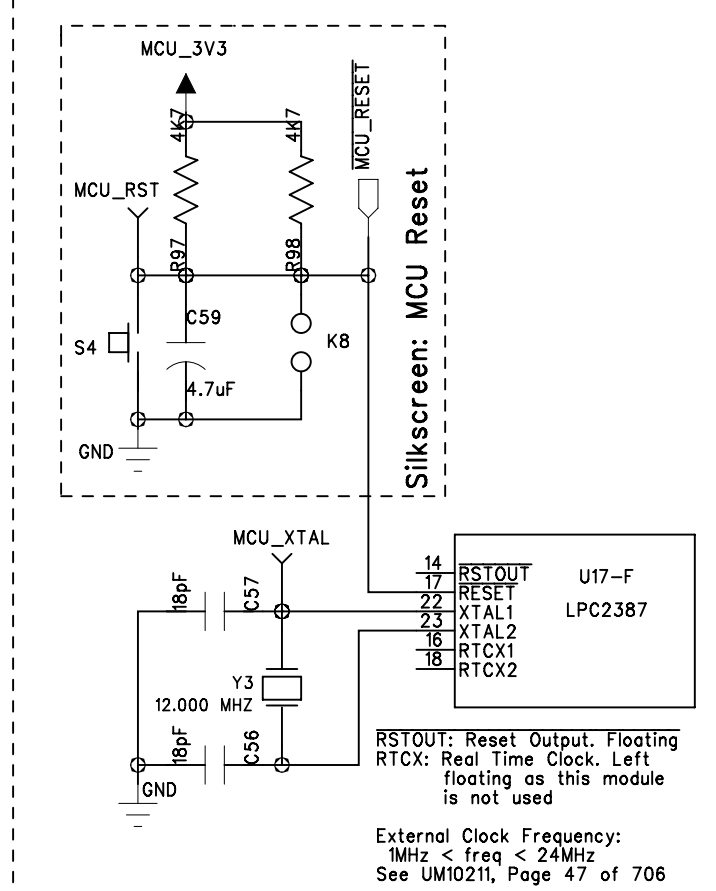
1

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

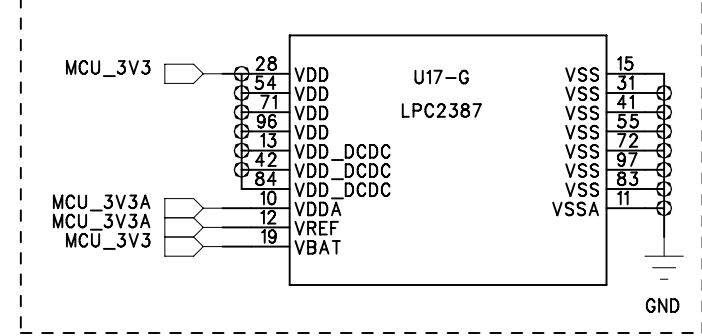
SW Enable Switch



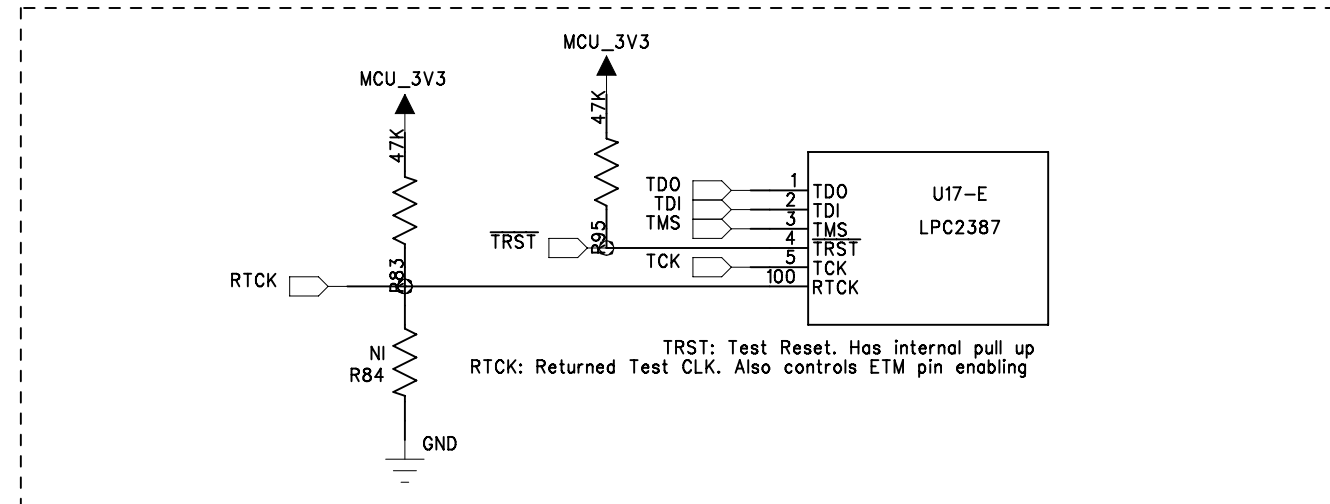
MCU - XTAL + RESET



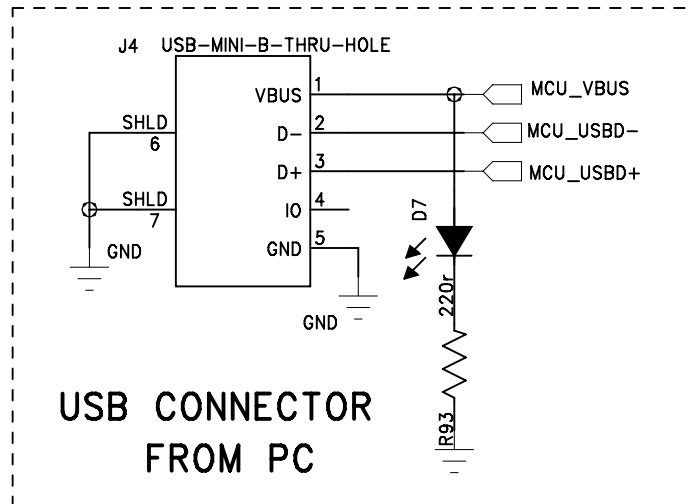
MCU - Power



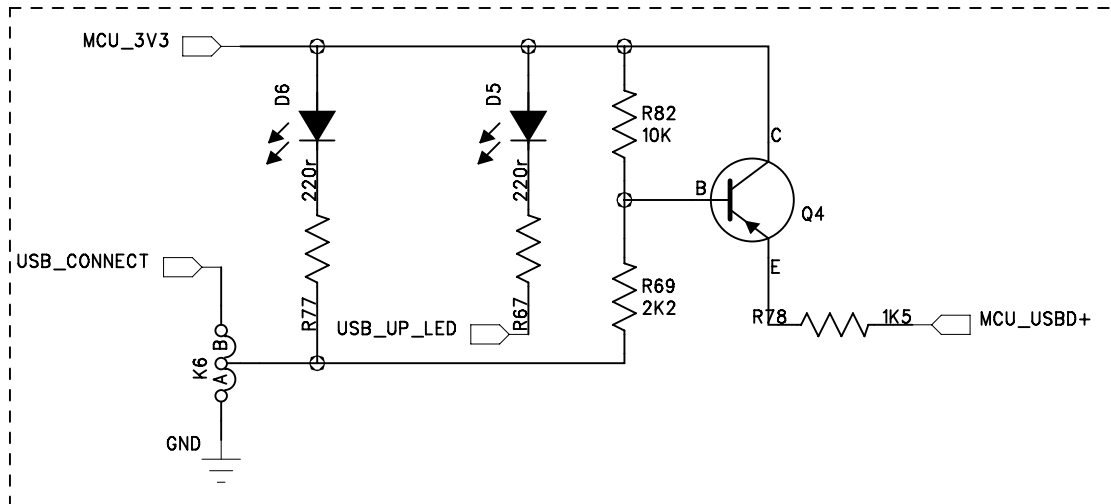
MCU - JTAG



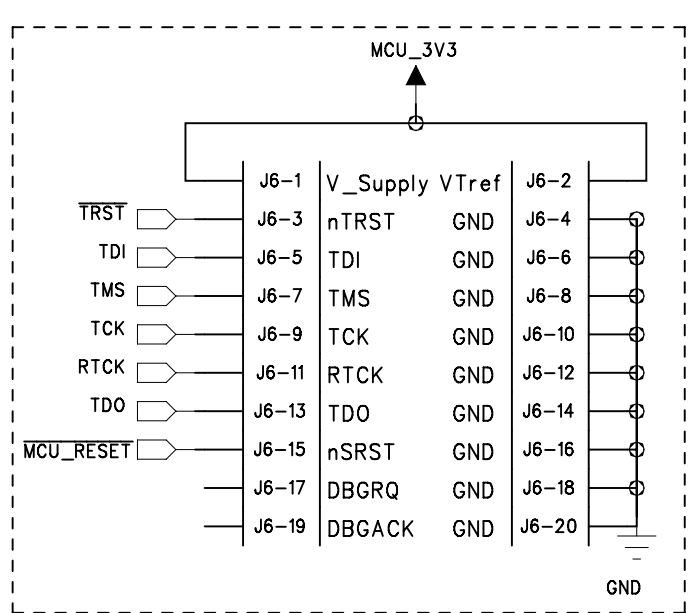
ARM7 USB Interface



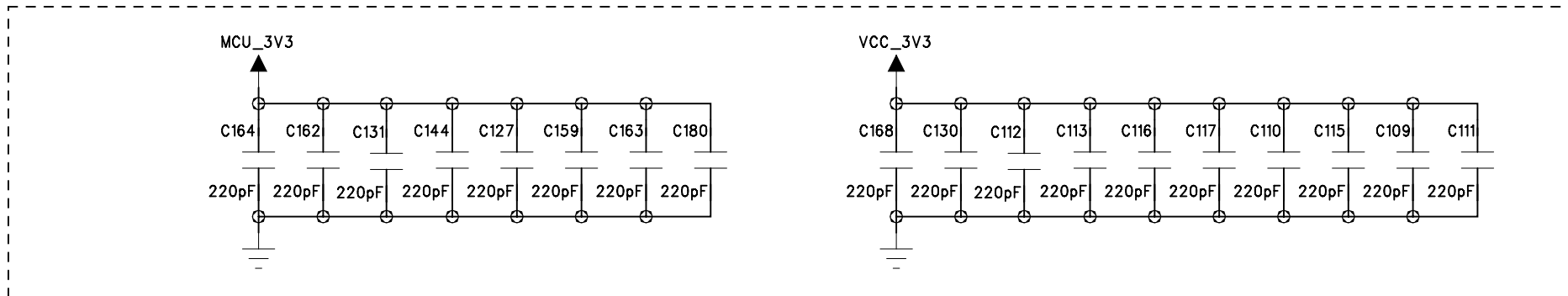
Soft Connect Circuitry



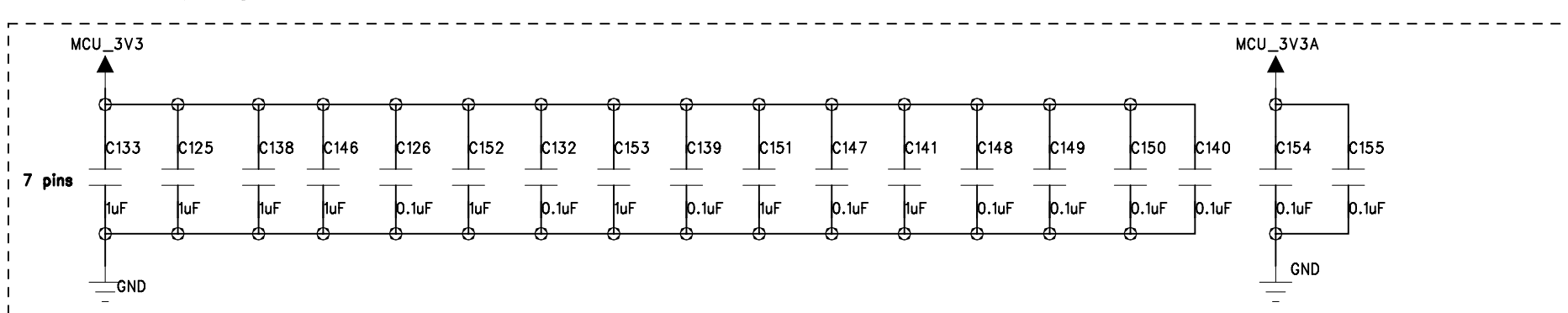
JTAG Interface - 20 Pin Interface



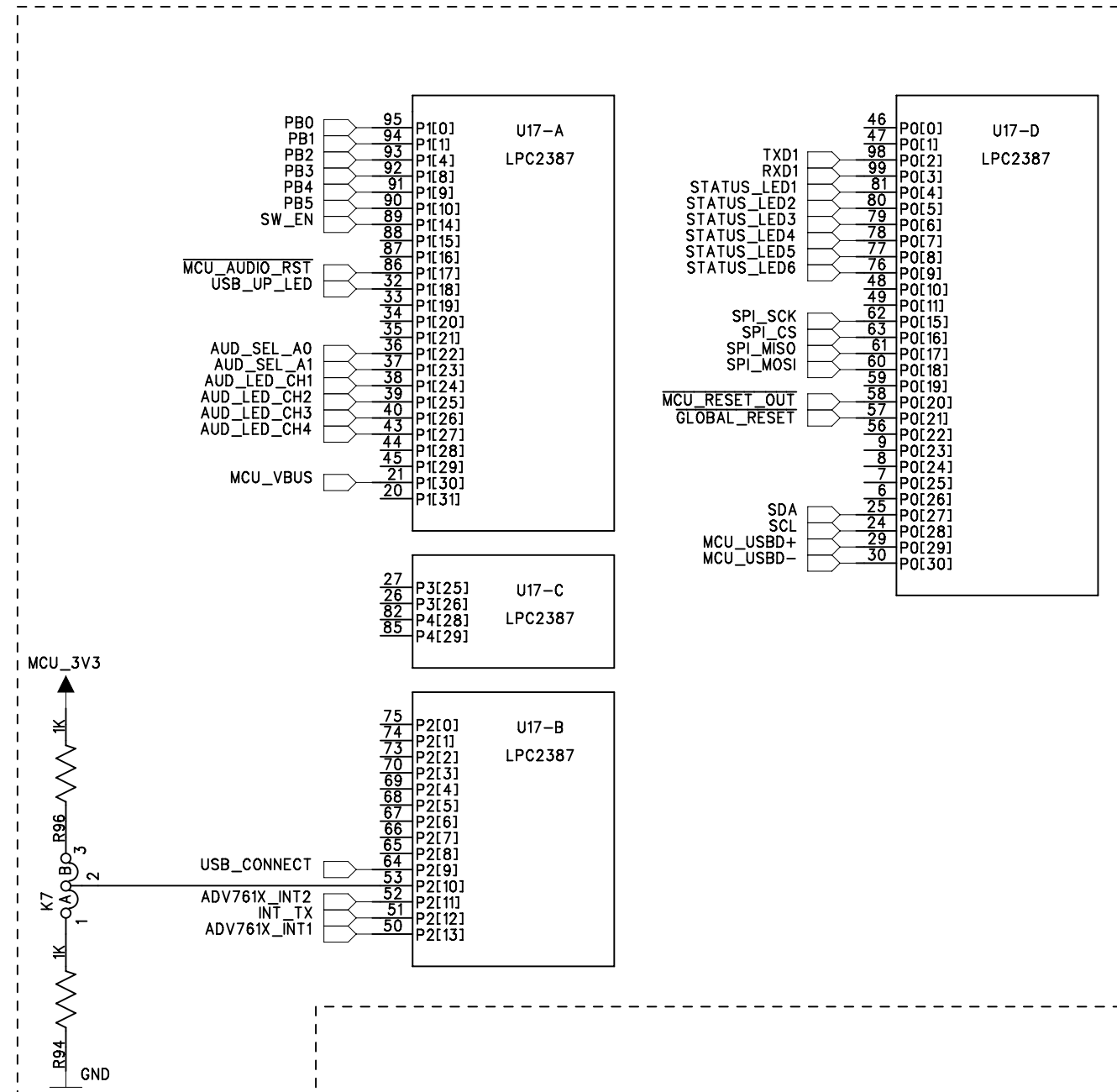
Planar Caps



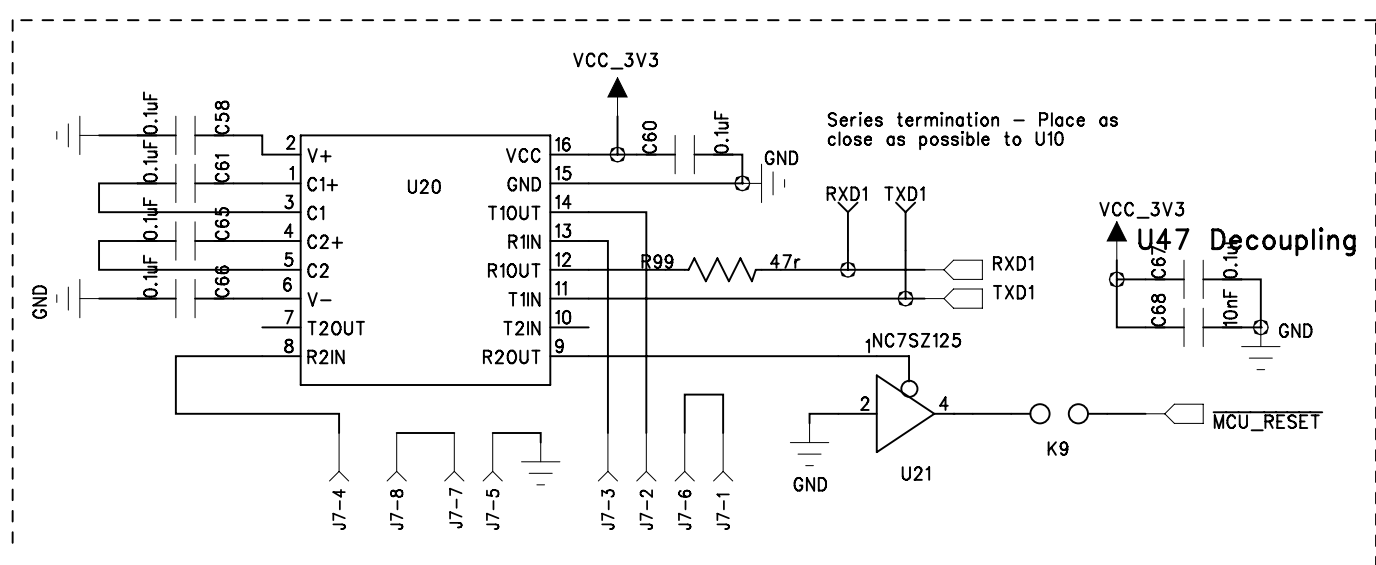
MCU Decoupling



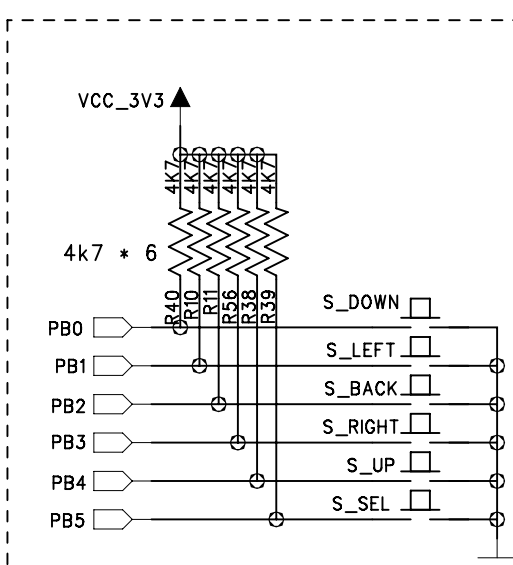
MCU - GPIOs + TRACE



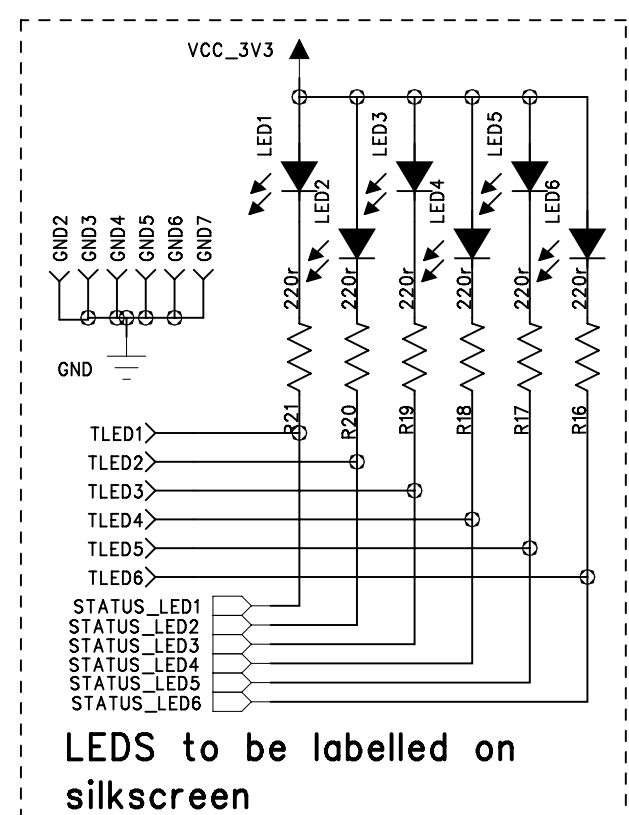
UART Interface



Push Buttons



LEDs



COMPANY: Analog Devices			
TITLE: ATV Group			
ADV7610 Eval Board:			
ARM7 Sheet			
CODE:	SIZE:	DRAWING NO:	REV:
SCALE:	SHEET: 6 of 9		

DRAWN:	DATED: 06/21/2012
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

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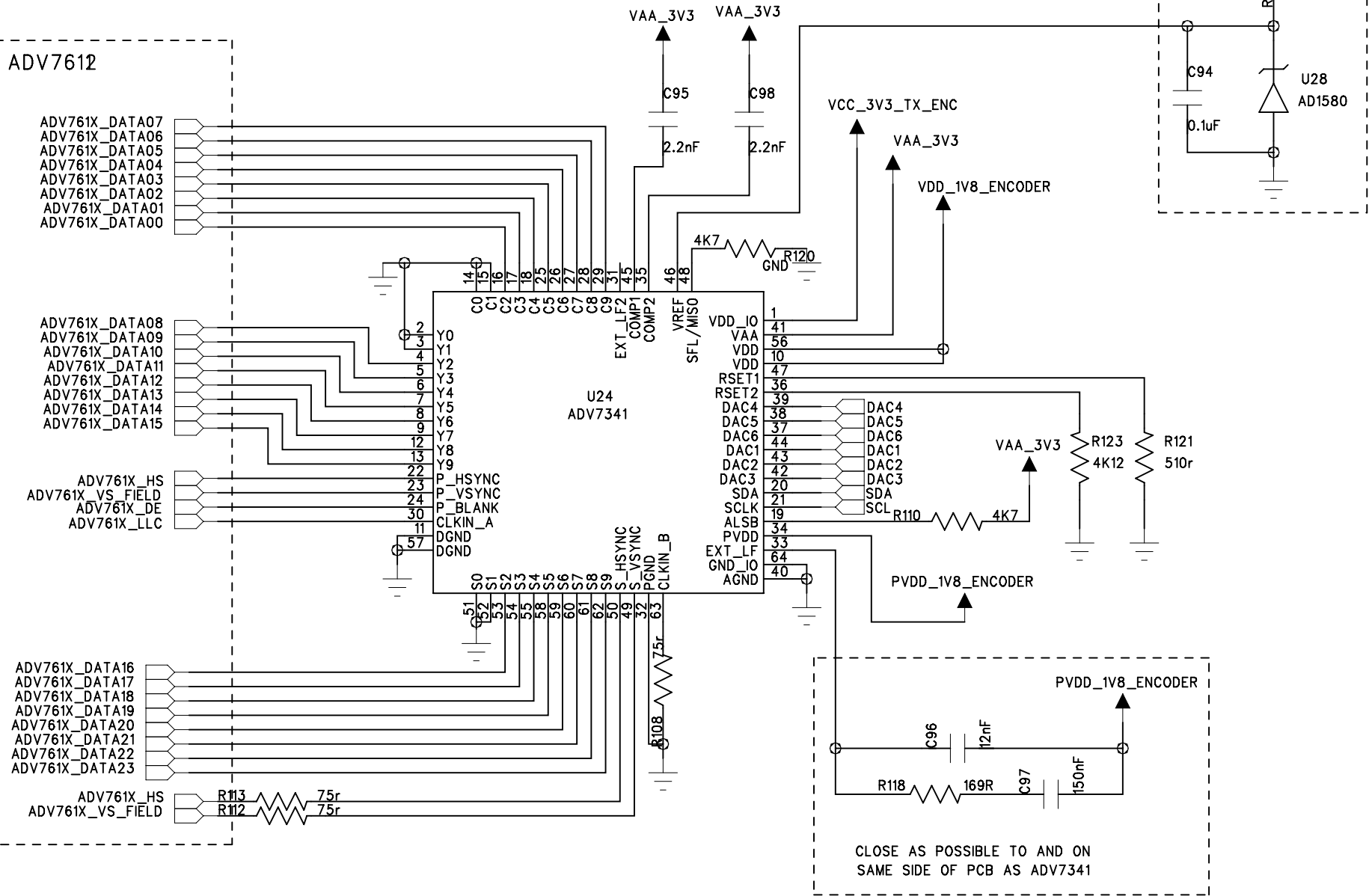
1

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

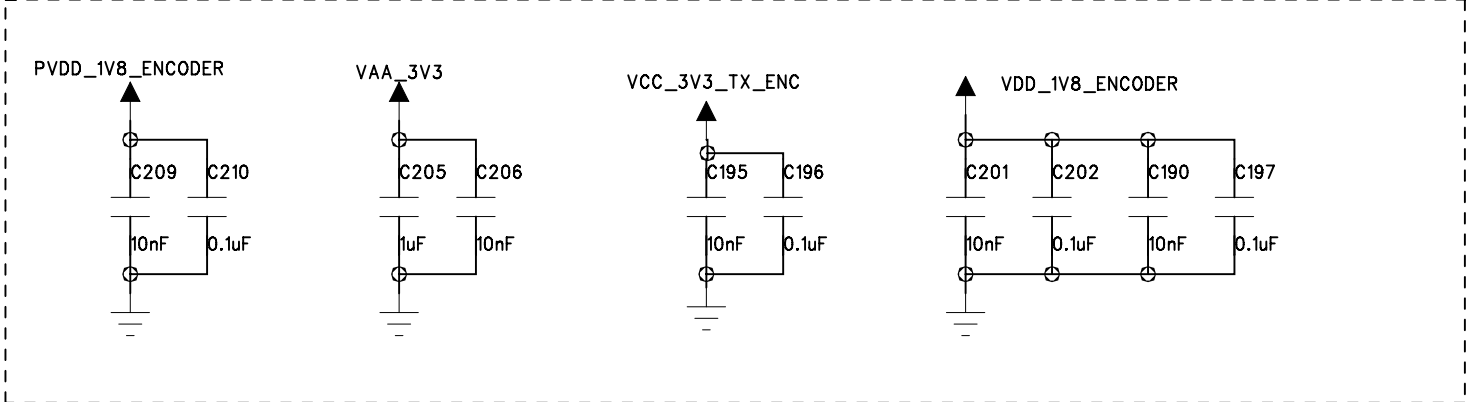
NORMAL MODE:

RGB	ADV7341	YPrPb	ADV7341
R[9:0]	= S[9:0]	Cr[9:0]	= S[9:0]
G[9:0]	= Y[9:0]	Y[9:0]	= Y[9:0]
B[9:0]	= C[9:0]	Cb[9:0]	= C[9:0]

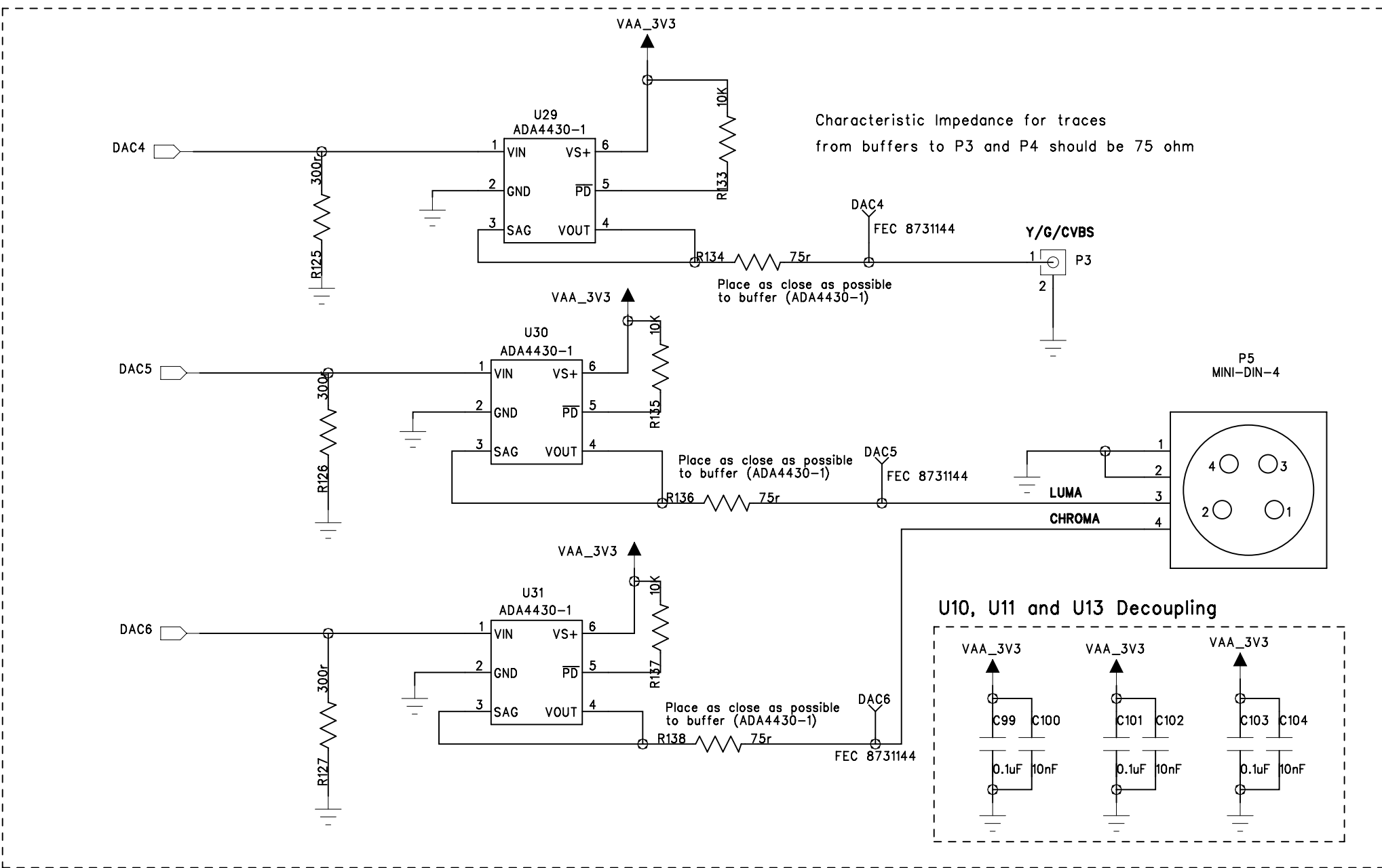
RGB	ADV7611	YPrPb	ADV7611
R[7:0]	= P[23:16]	Cr[7:0]	= P[23:16]
G[7:0]	= P[15:8]	Y[7:0]	= P[15:8]
B[7:0]	= P[7:0]	Cb[7:0]	= P[7:0]



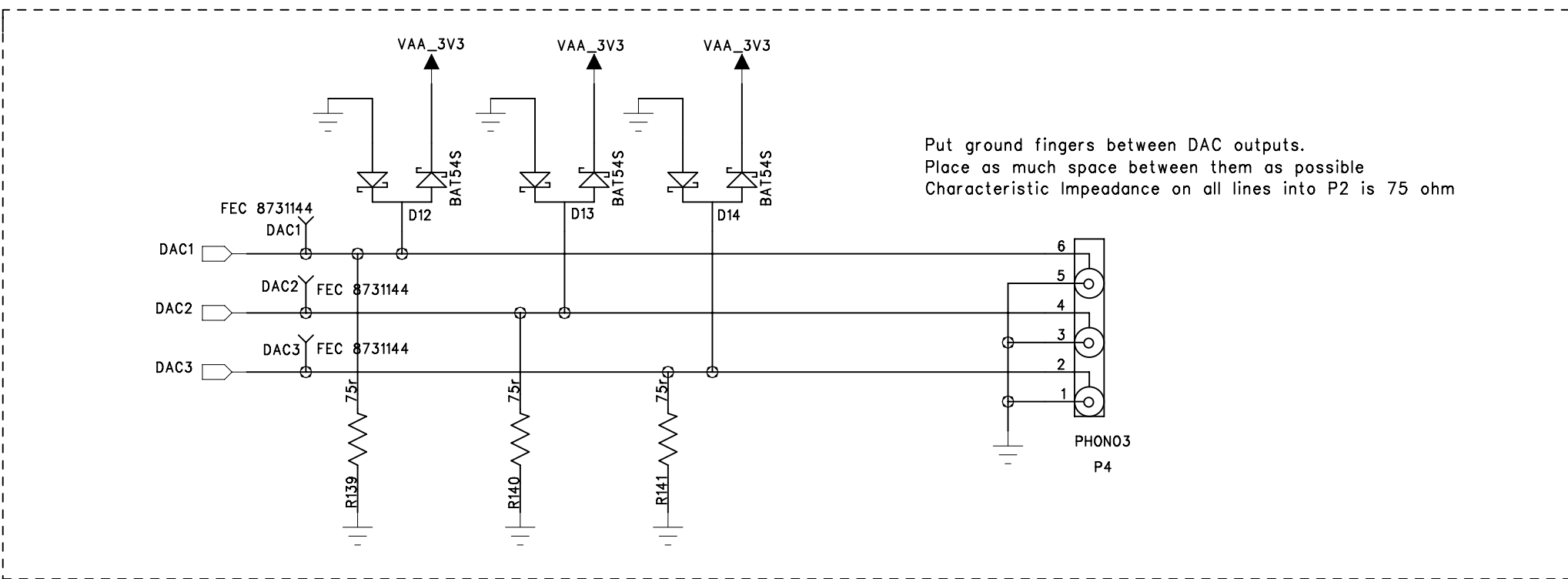
U25 Decoupling



SD_FILTERS



HD_FILTERS



COMPANY: Analog Devices			
TITLE: ATV Group ADV7610 Eval Board: Encoder Sheet			
CODE:	SIZE:	DRAWING NO:	REV:
			0
SCALE:		SHEET: 7 of 9	

DRAWN:	DATED: 06/21/2012
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

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ADV761x PAGE

ADV761X_DATA23
ADV761X_DATA22
ADV761X_DATA21
ADV761X_DATA20
ADV761X_DATA19
ADV761X_DATA18
ADV761X_DATA17
ADV761X_DATA16

ADV761X_DATA15
ADV761X_DATA14
ADV761X_DATA13
ADV761X_DATA12
ADV761X_DATA11
ADV761X_DATA10

At the end of the track
VCC_3V3

R115 150r

VDD_1V8

ADV761X_DATA09
ADV761X_LLC
ADV761X_DATA08

ADV761X_DATA07
ADV761X_DATA06
ADV761X_DATA05
ADV761X_DATA04
ADV761X_DATA03
ADV761X_DATA02
ADV761X_DATA01
ADV761X_DATA00

ADV761X_DE
ADV761X_HS
ADV761X_VS_FIELD

VDD_1V8

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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

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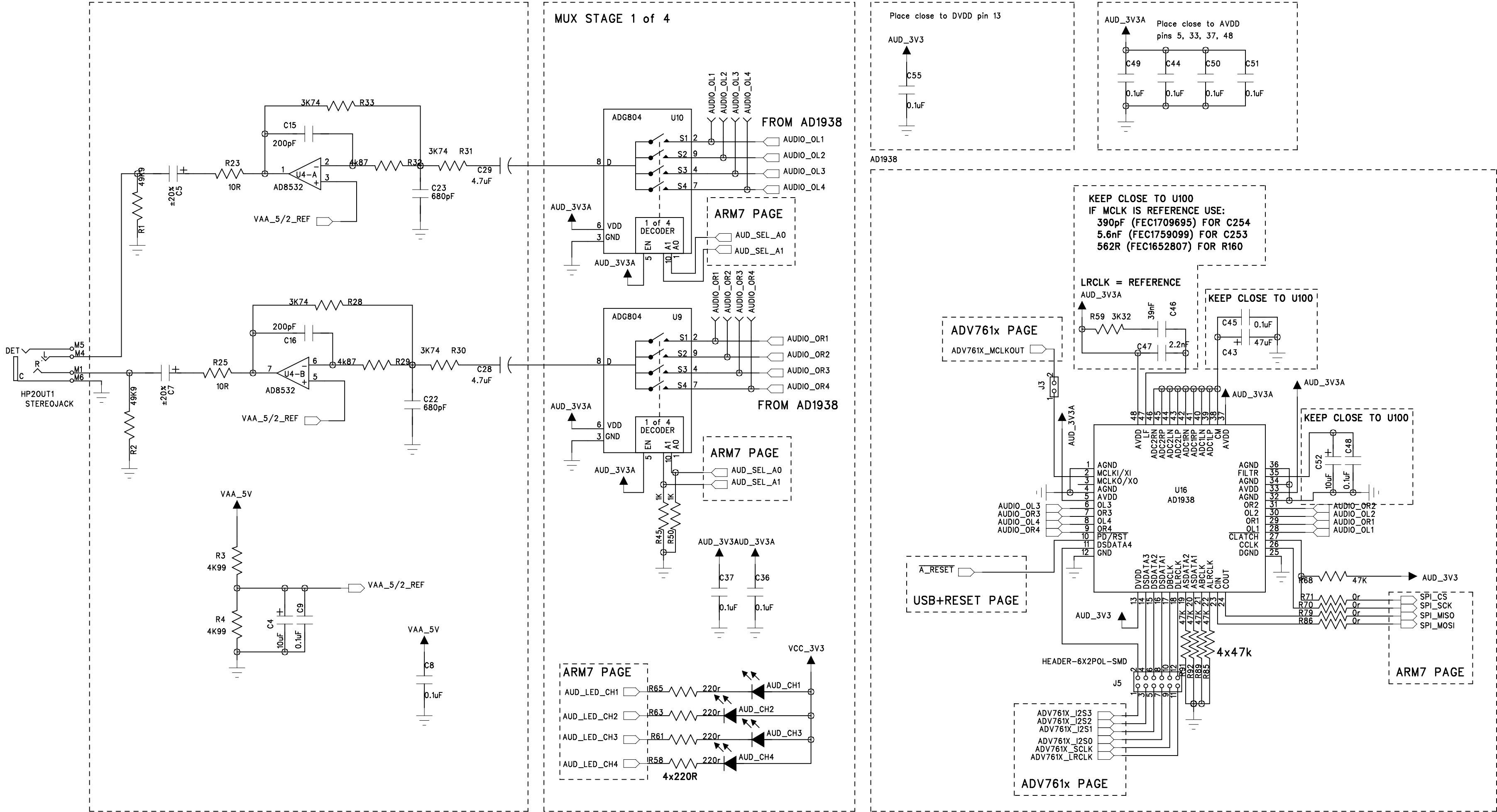
C

B

B

A

A



COMPANY: Analog Devices			
TITLE: ATV Group			
ADV7610 Eval Board: Audio Sheet			
DRAWN:	DATED: 06/21/2012	CODE:	SIZE:
CHECKED:	DATED:	DRAWING NO:	REV: 0
QUALITY CONTROL:	DATED:		
RELEASED:	DATED:		
SCALE:			SHEET: 9 of 9