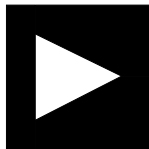


Video Encoder EI3 Extender Board Schematic



**ANALOG
DEVICES**

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Nashua, NH 03063
PH: 1-800-ANALOGD

Title Video Encoder EI3 Extender Board
Title Sheet

Size C	Board No. A0252-2010	Rev 1.0
------------------	--------------------------------	-------------------

Date 3/6/12	Sheet 1 of 8
-----------------------	------------------------

1

2

3

4

1

2

3

4

2

3

4

5

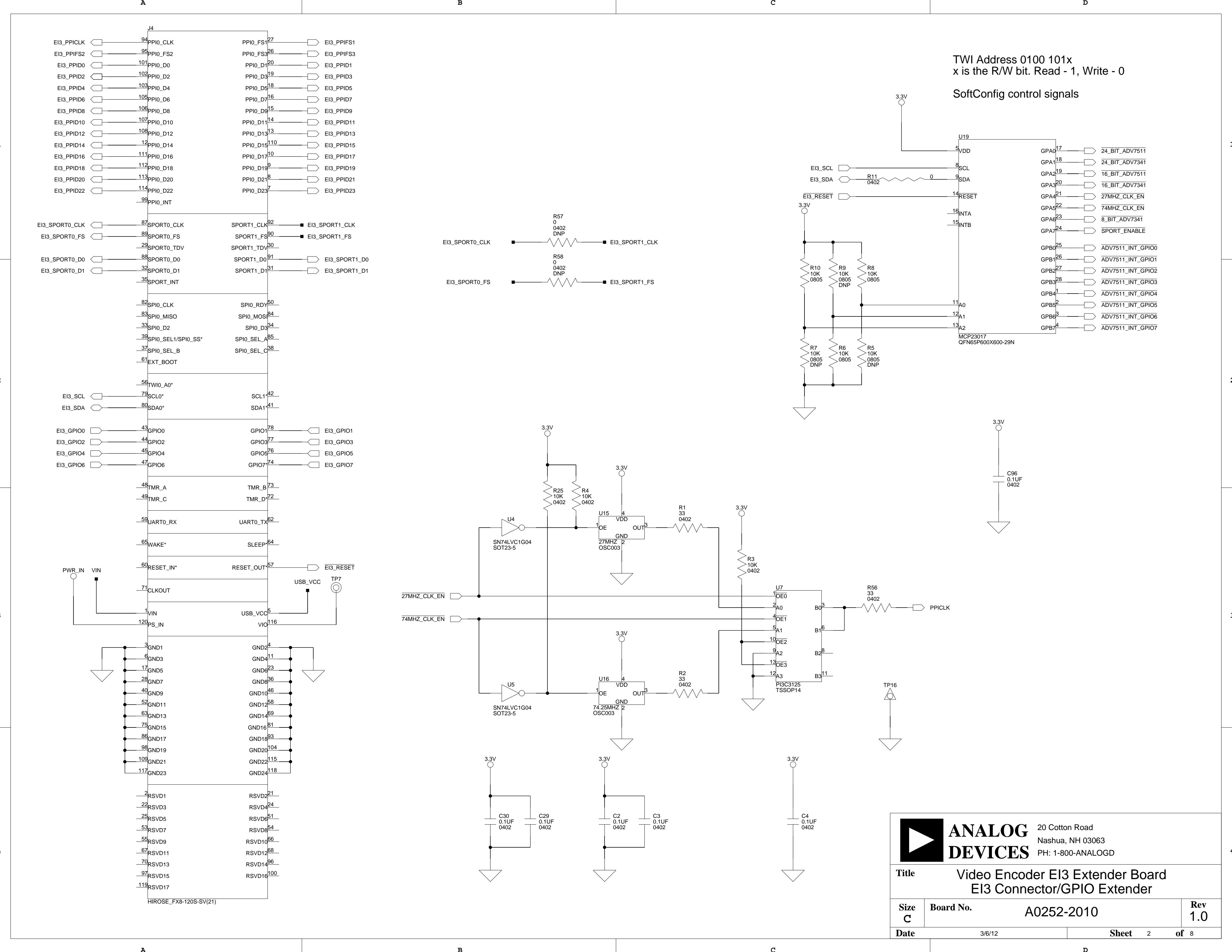
3

4

5

6

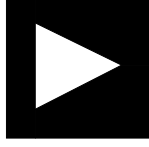
4

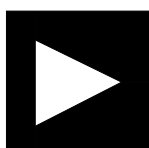
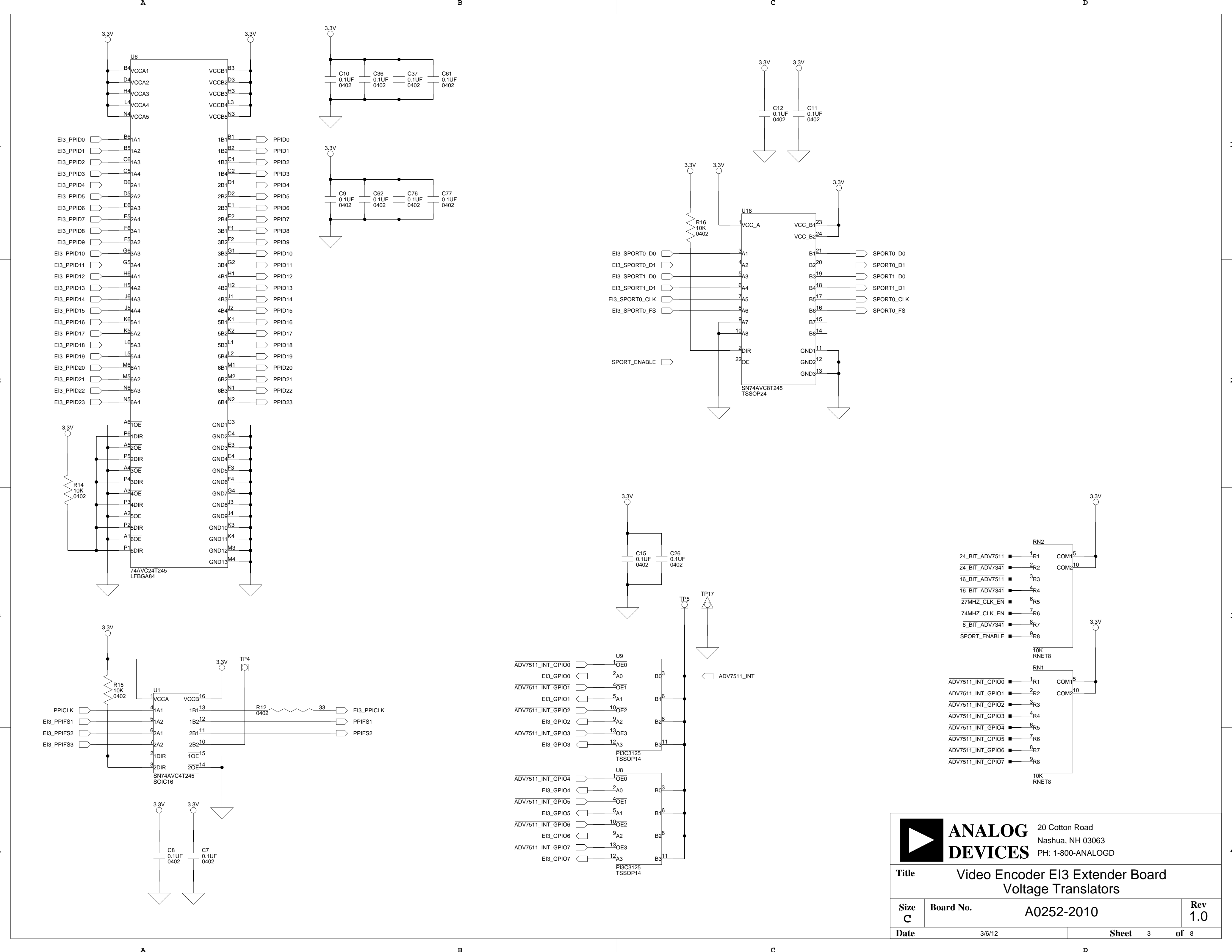


1
2
3
4

TWI Address 0100 101x
x is the R/W bit. Read - 1, Write - 0

SoftConfig control signals

		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
Title Video Encoder EI3 Extender Board EI3 Connector/GPIO Extender			
Size C	Board No. A0252-2010		Rev 1.0
Date	3/6/12		Sheet 2 of 8



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Title			Video Encoder EI3 Extender Board Voltage Translators		
Size C	Board No.		A0252-2010		Rev 1.0
Date	3/6/12		Sheet	3	of 8

1

2

3

4

B

B

B

B

C

C

C

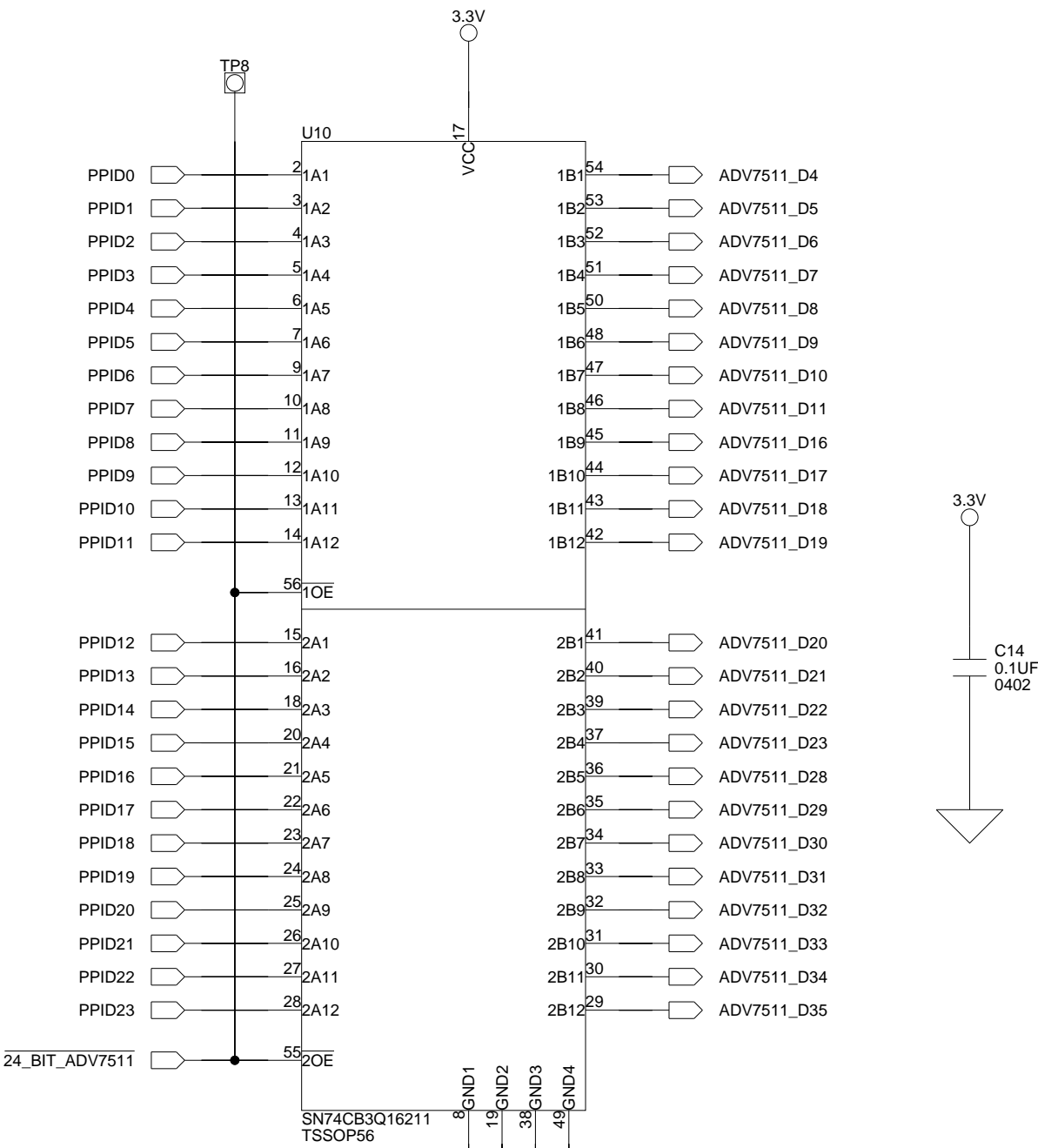
C

D

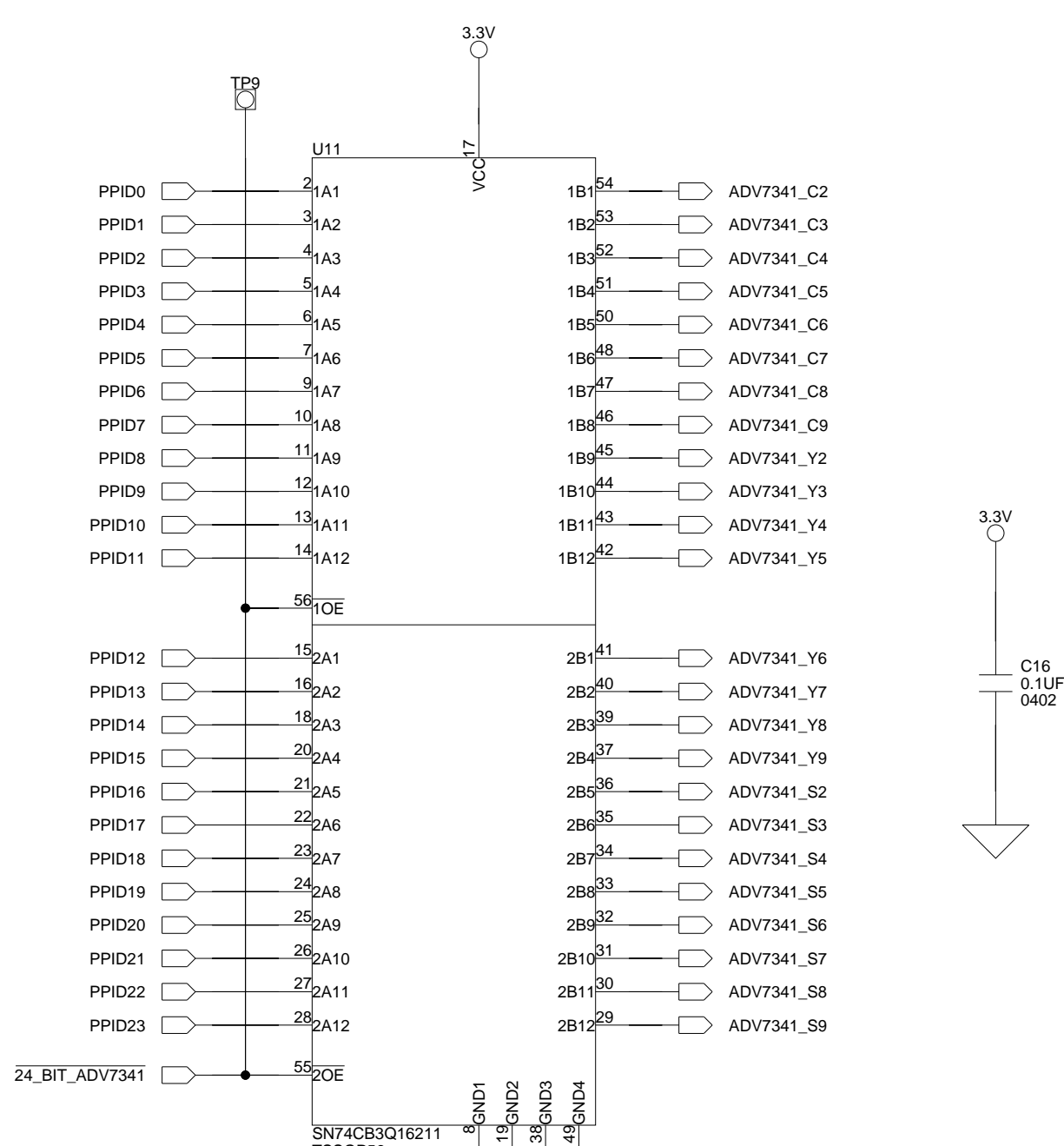
D

D

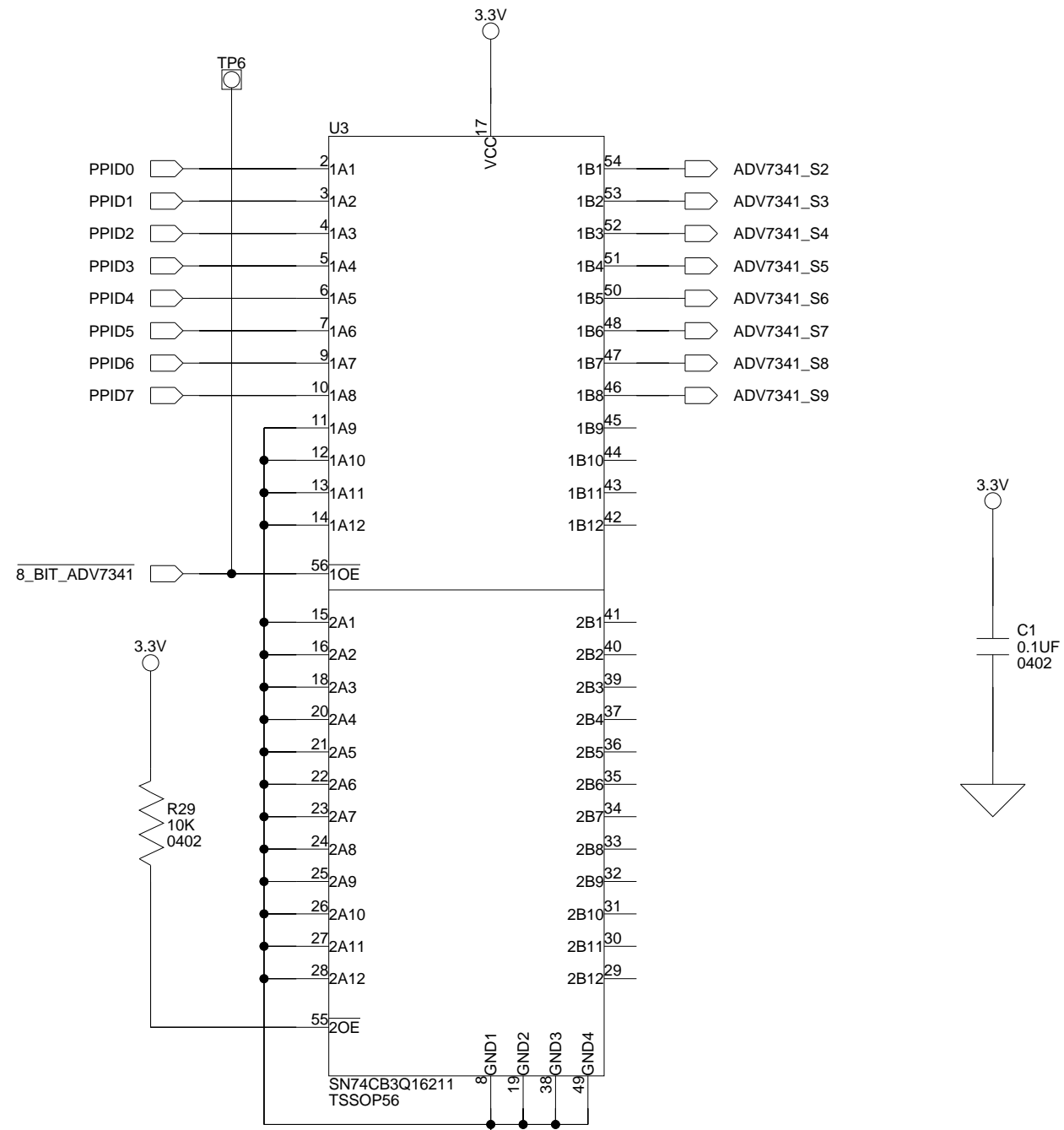
D



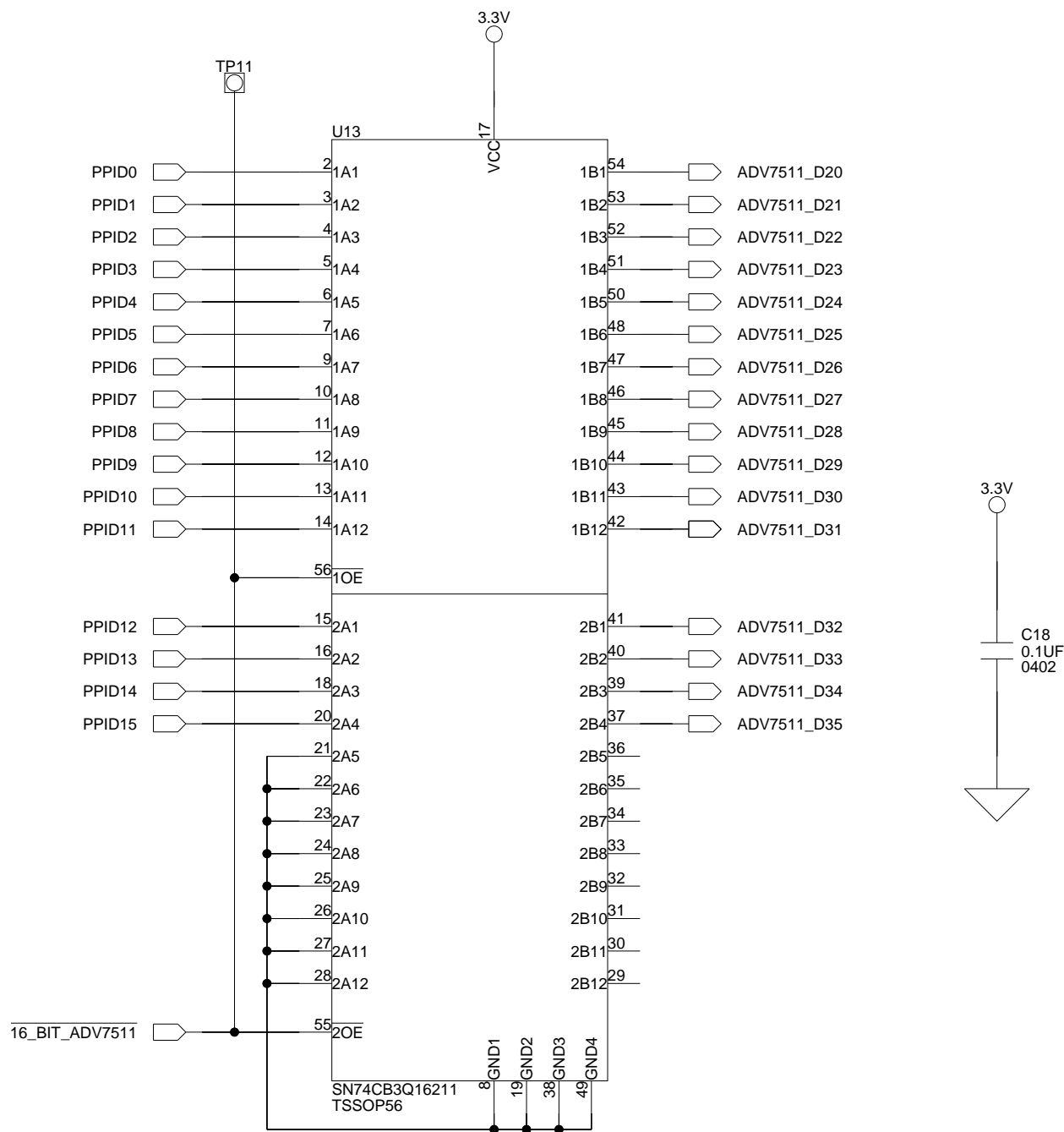
24-Bit Mode RGB 4:4:4



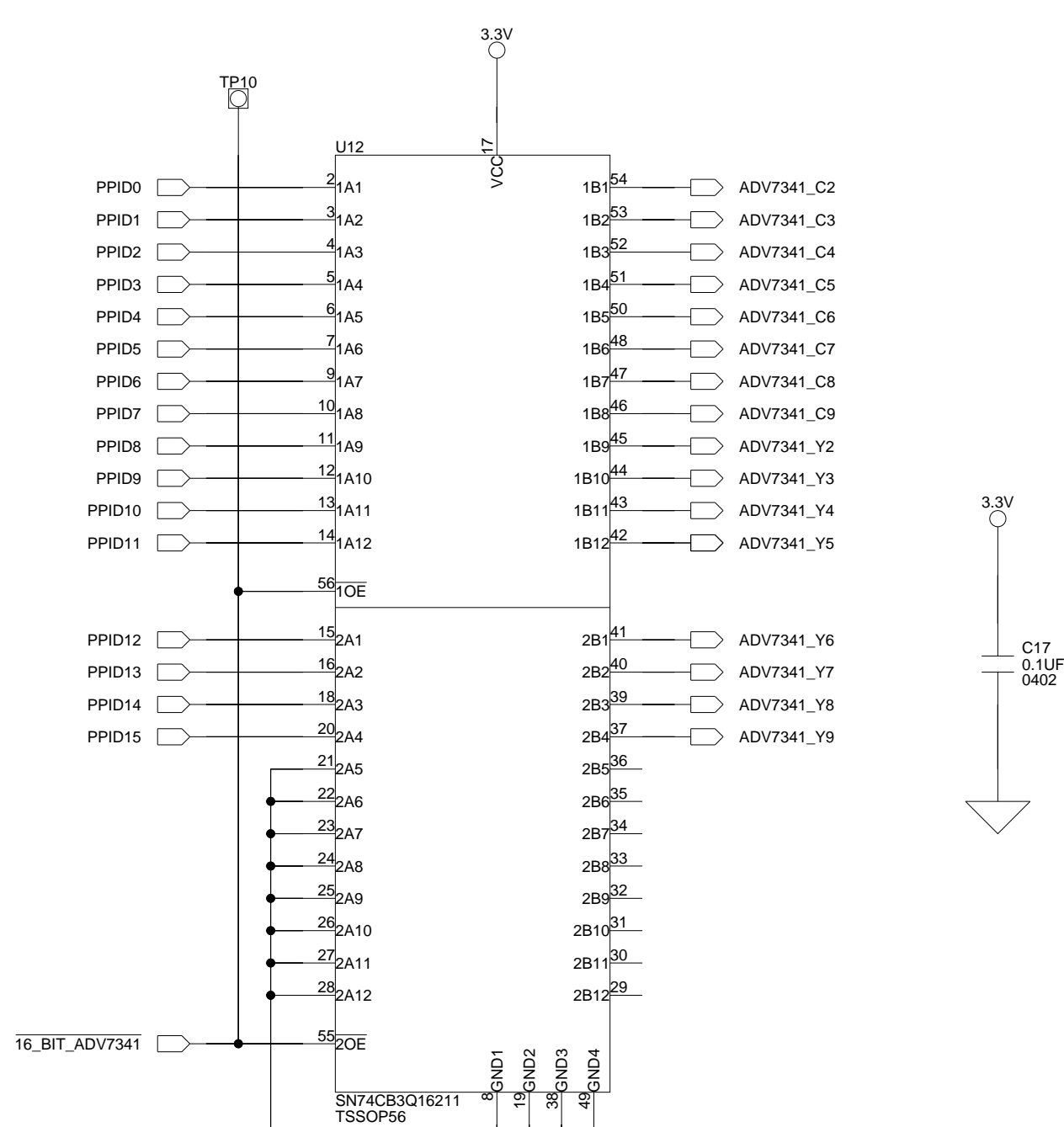
24-Bit Mode RGB 4:4:4



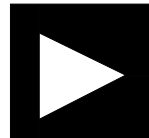
8-Bit Mode YCbCr 4:2:2

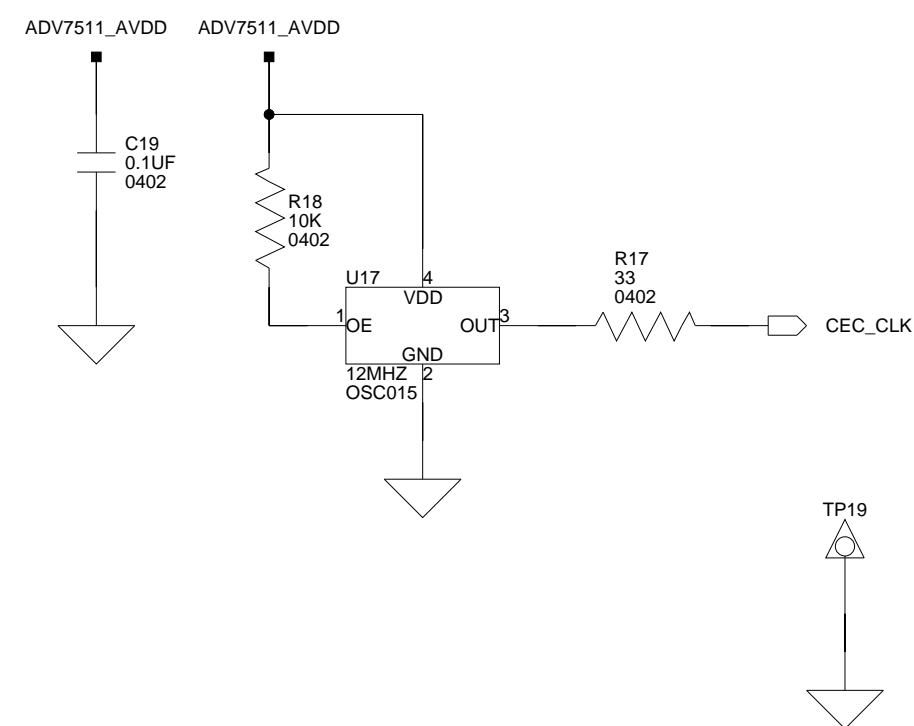


16-Bit Mode YCbCr 4:2:2

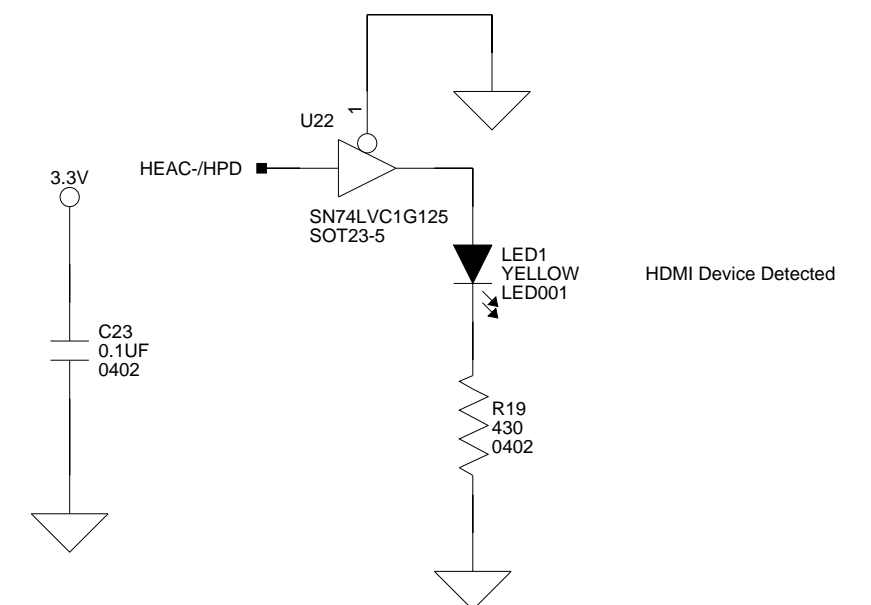
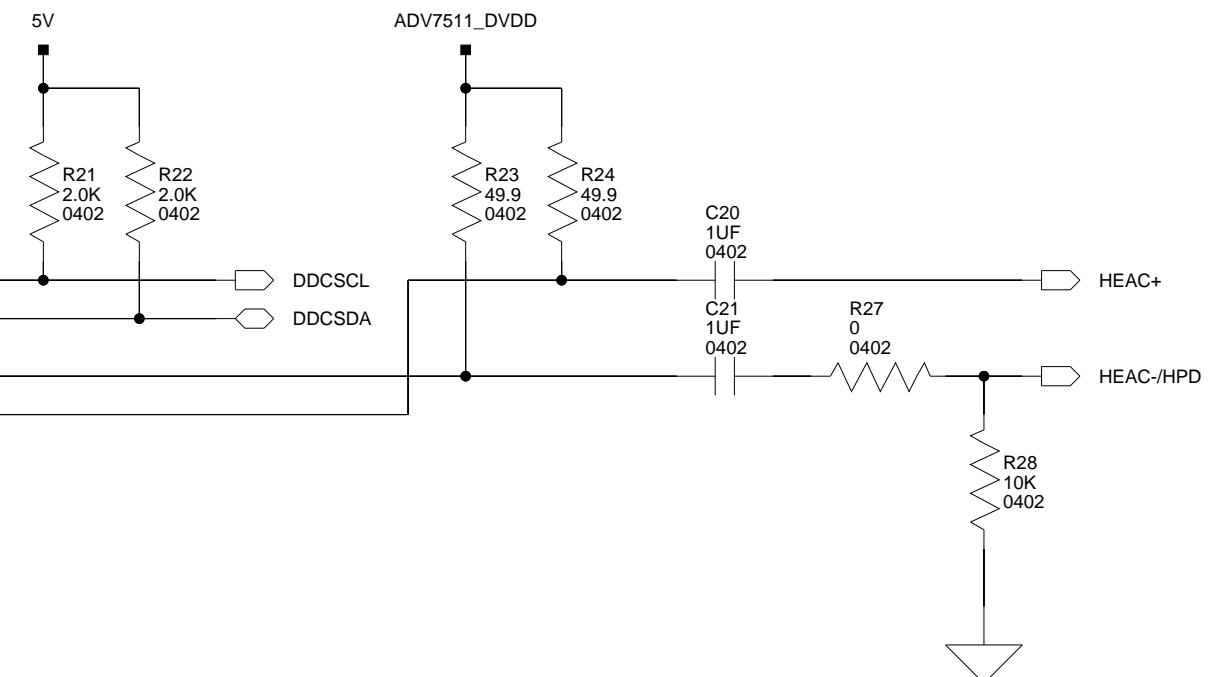
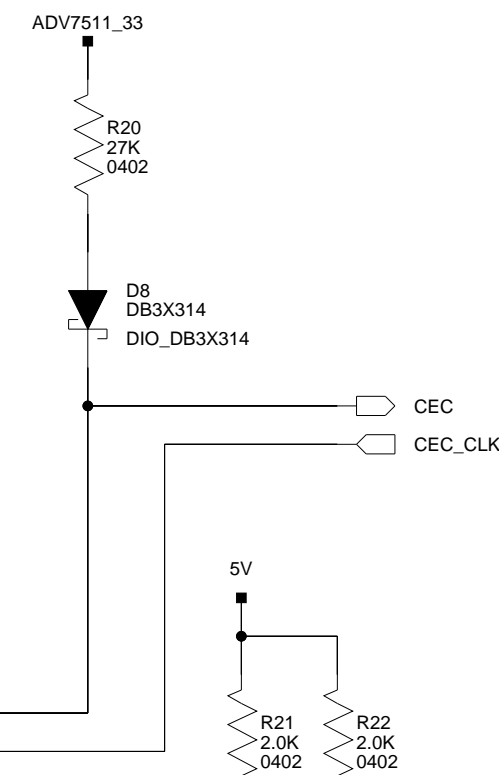
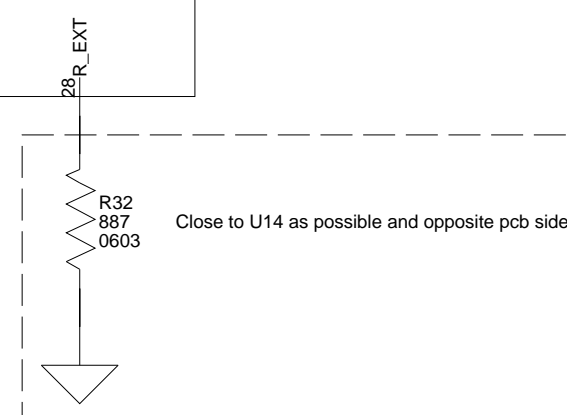
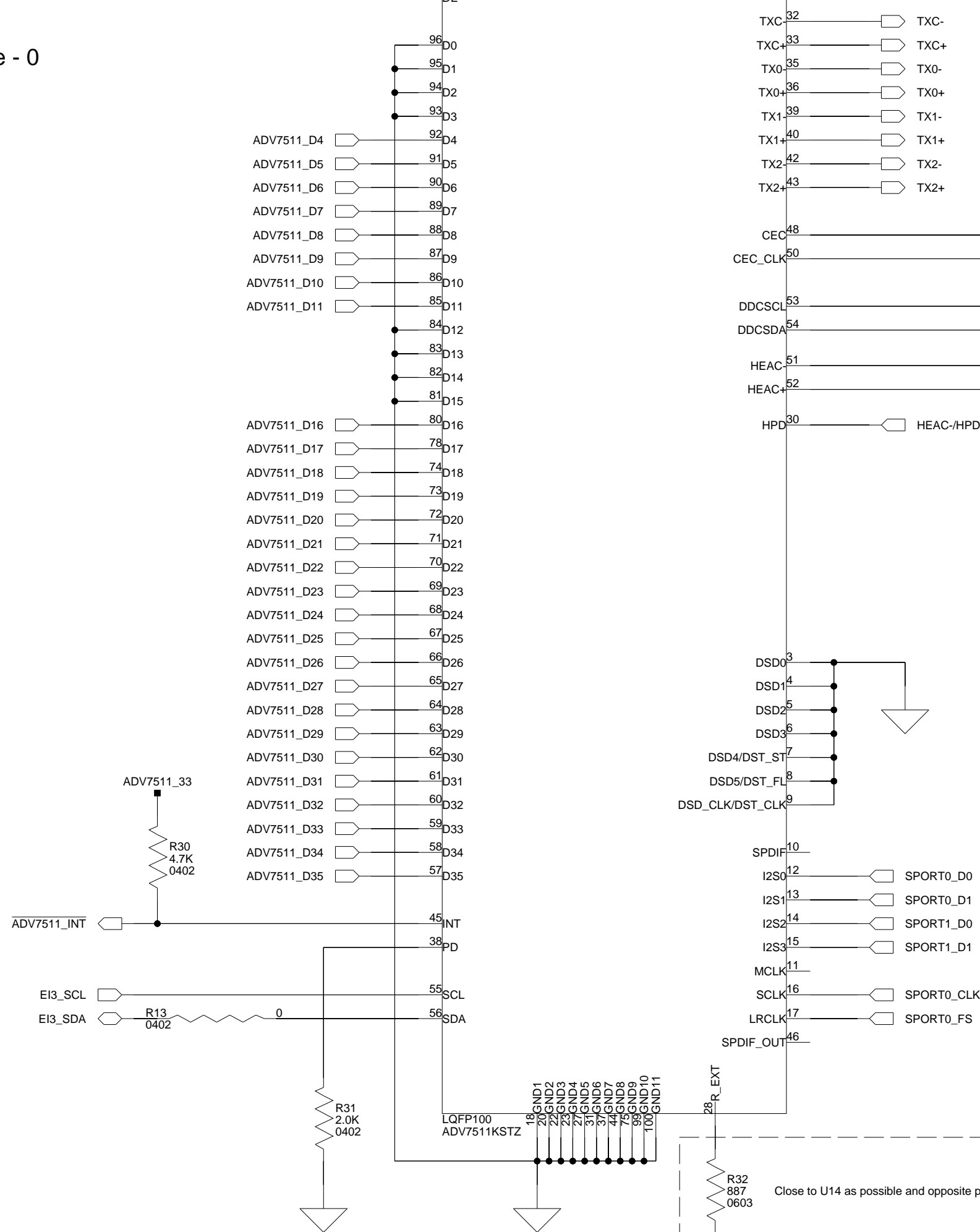
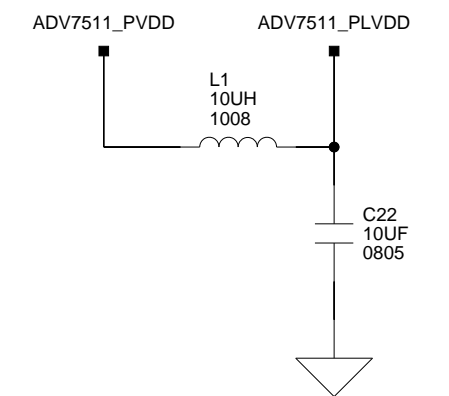
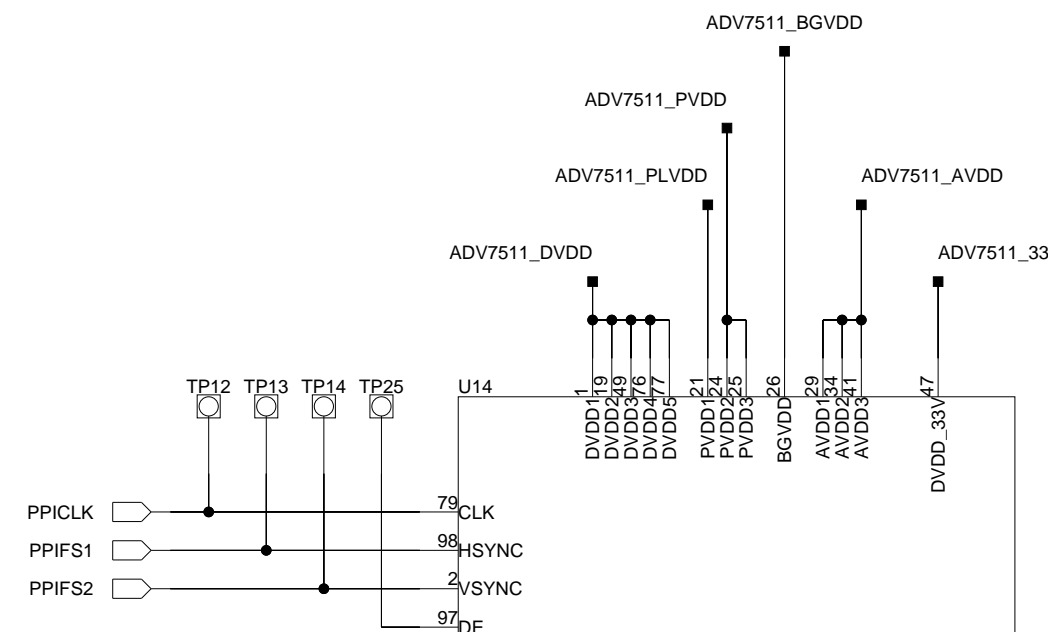
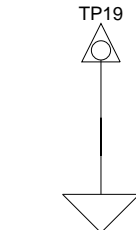



16-Bit Mode YCbCr 4:2:2

		ANALOG DEVICES		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
Title		Video Encoder EI3 Extender Board Video Modes			
Size C	Board No.		A0252-2010		Rev 1.0
Date	3/6/12		Sheet 4 of 8		

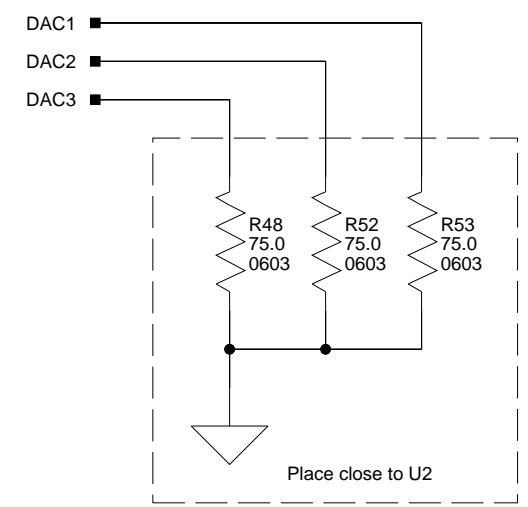
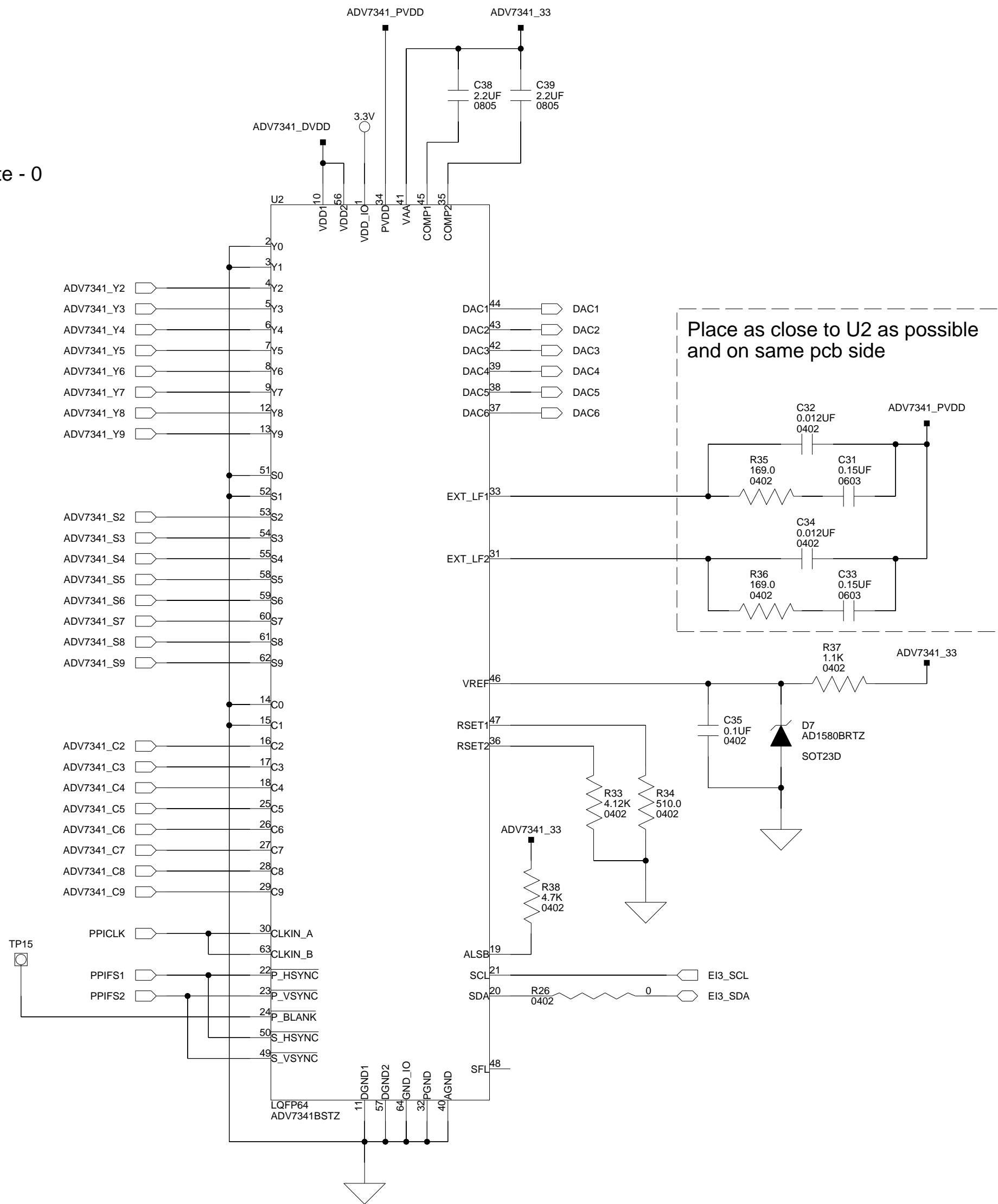


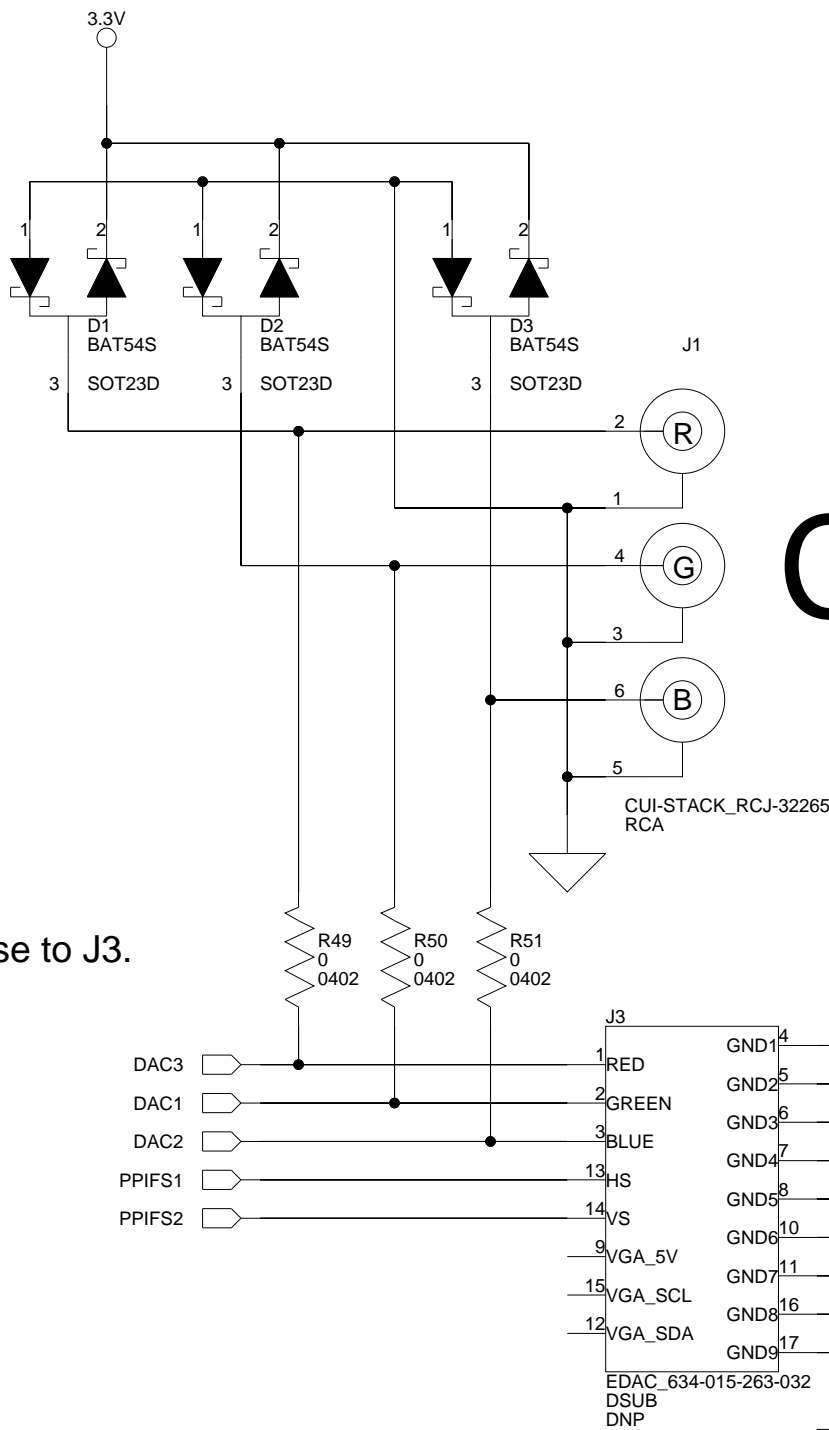
TWI Address 0111 001x
x is the R/W bit. Read - 1, Write - 0



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Title Video Encoder EI3 Extender Board ADV7511			
Size C	Board No.	A0252-2010	
Date	3/6/12	Sheet	5 of 8

TWI Address 0101 011x
x is the R/W bit. Read - 1, Write - 0



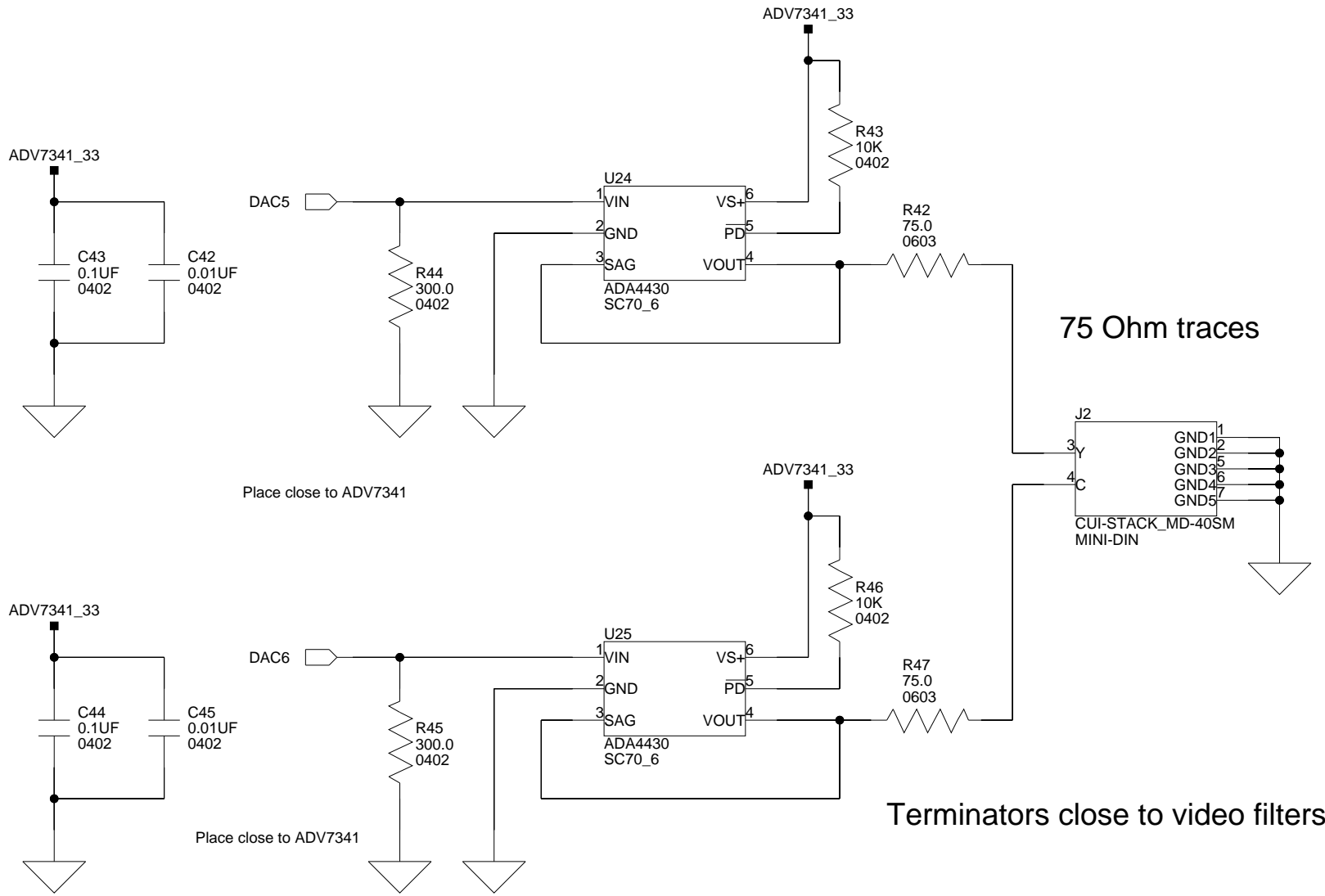
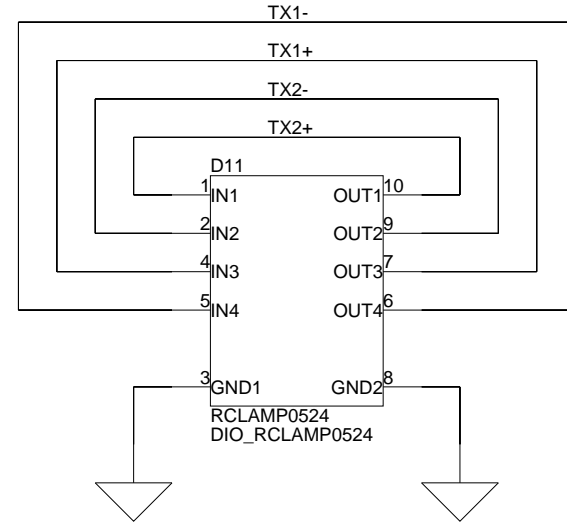
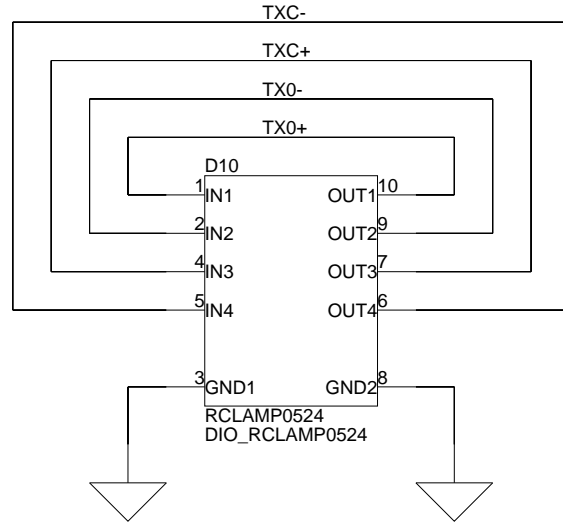
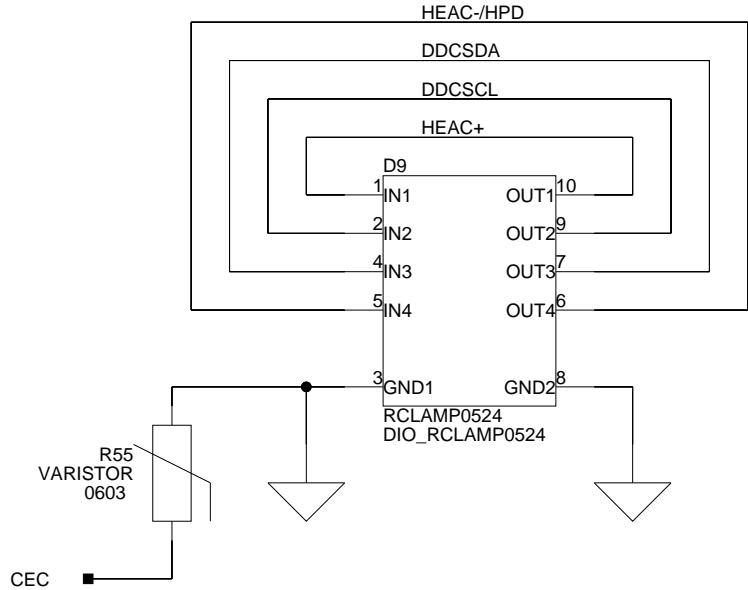
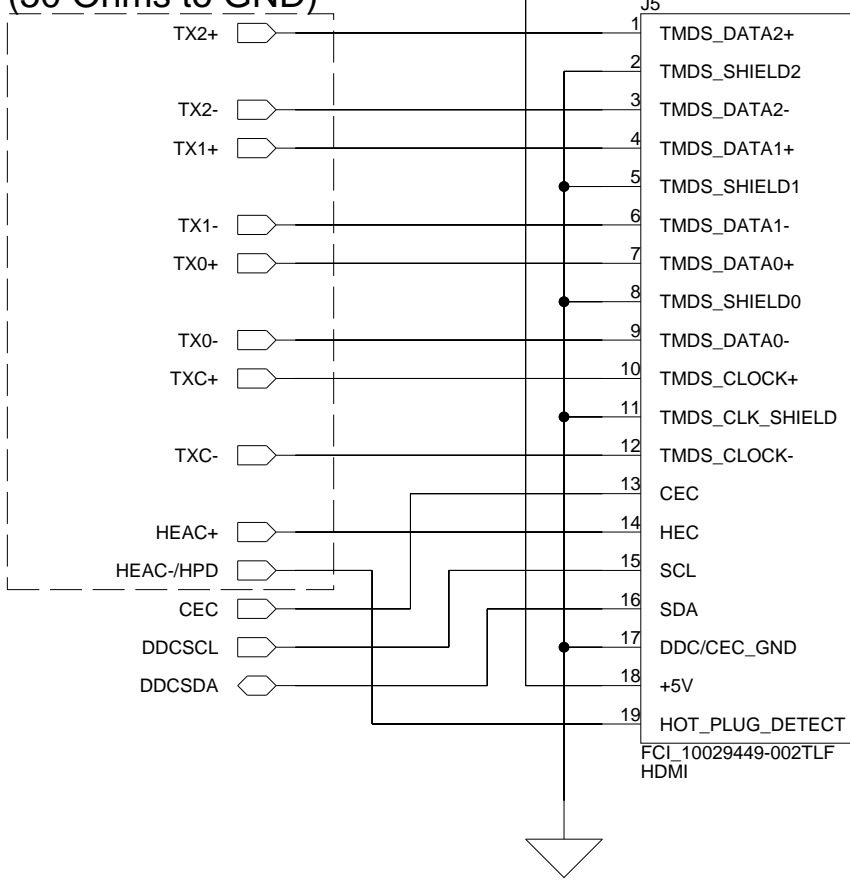


Component

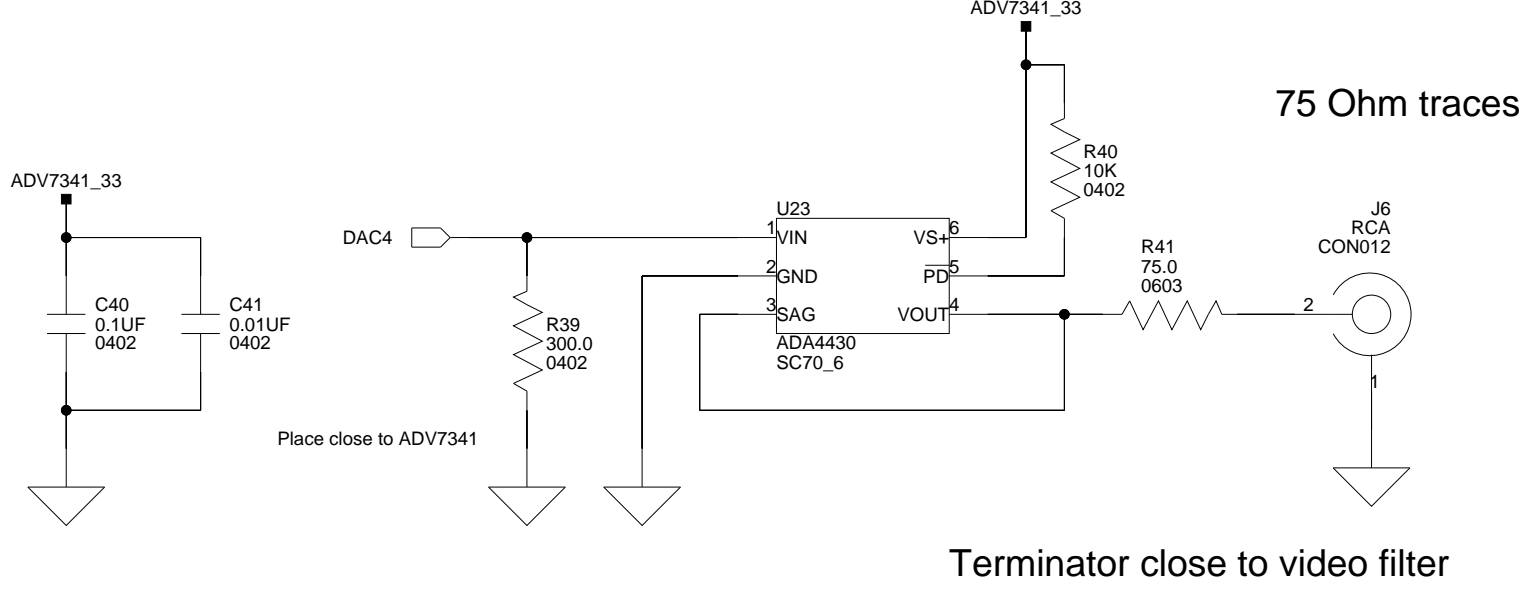
VGA

HDMI

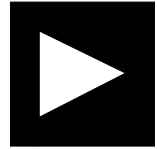
100 Ohm diff pairs
(50 Ohms to GND)



S-Video



Composite



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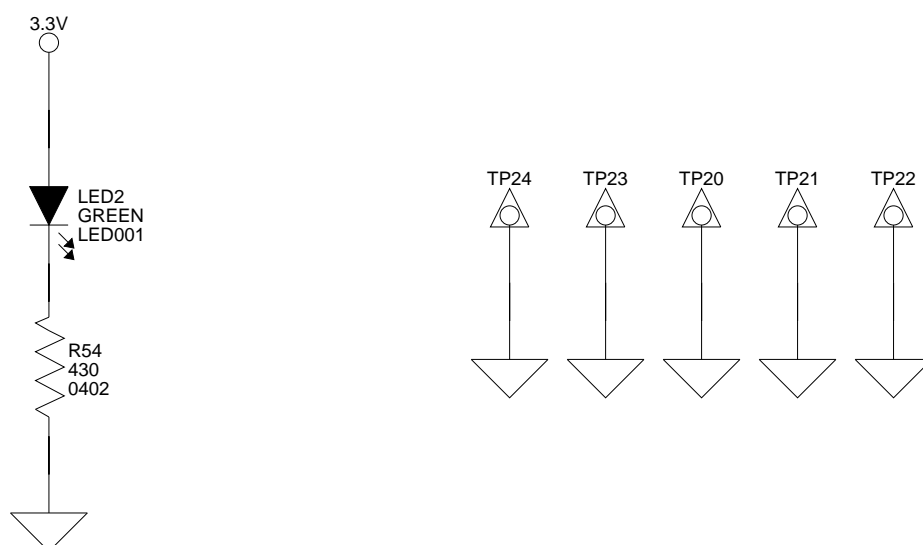
Title			Video Encoder EI3 Extender Board Video Connectors		
Size C	Board No.		A0252-2010		Rev 1.0
Date	3/6/12		Sheet	7	of 8

A

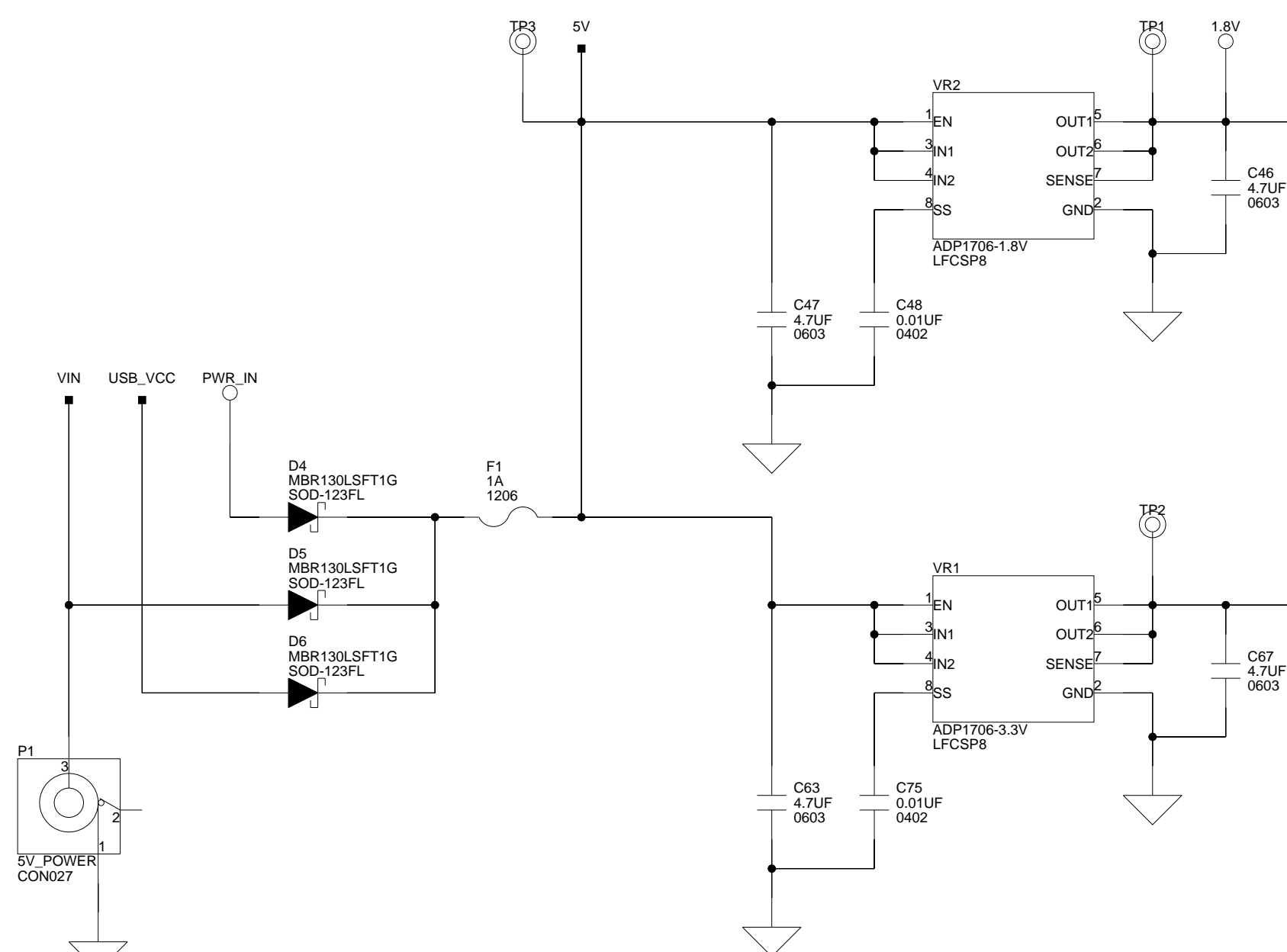
B

C

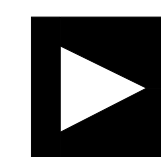
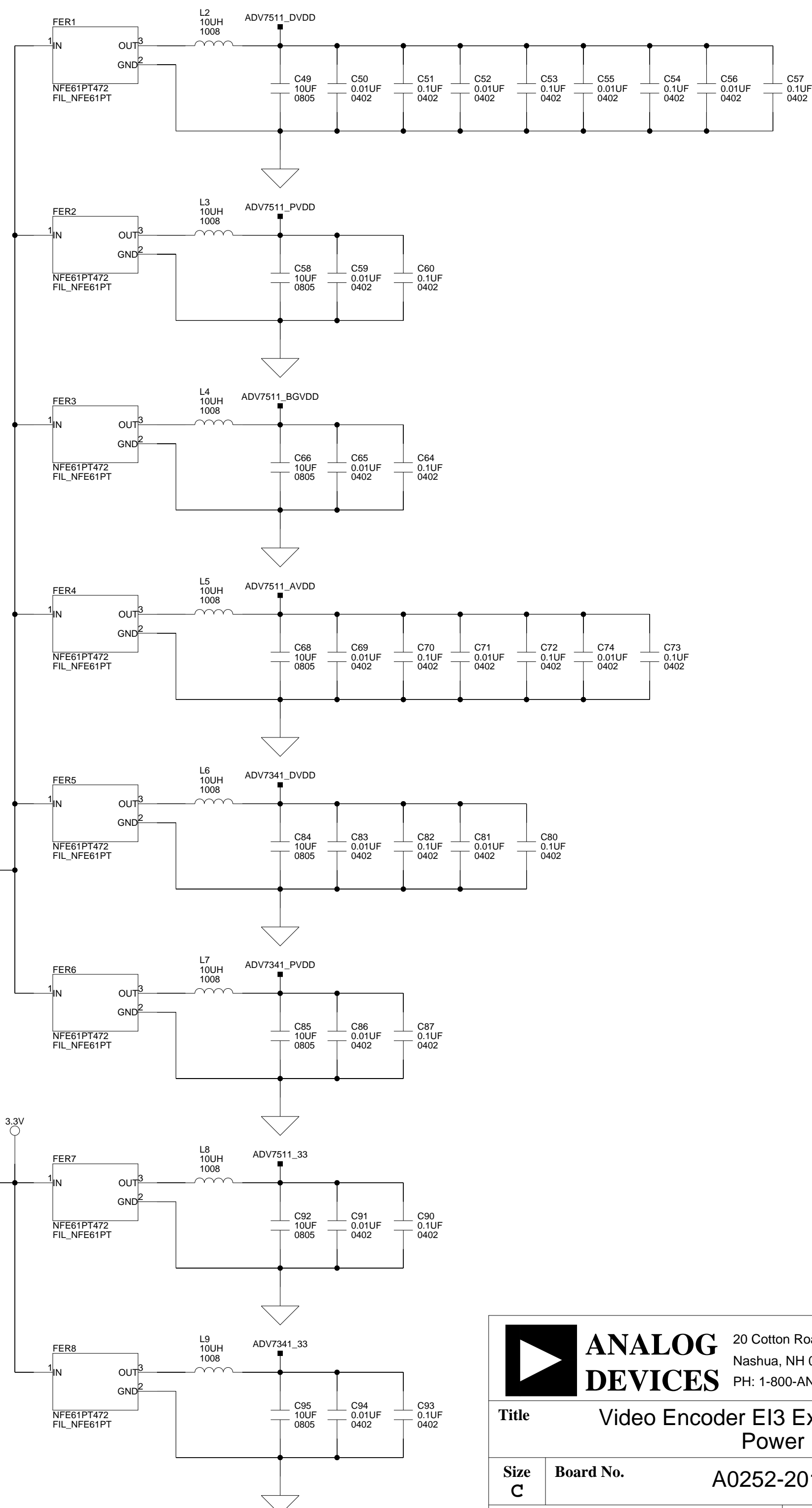
D



1.8V @ 1A



3.3V @ 1A

**ANALOG
DEVICES**20 Cotton Road
Nashua, NH 03063
PH: 1-800-ANALOGD**Title** Video Encoder EI3 Extender Board
Power**Size
C****Board No.**

A0252-2010

**Rev
1.0****Date**

3/6/12

Sheet

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