

A

B

C

D

1

1

2

2

3


3

4

4

# ADSP-21364 EZ-KIT Lite

## Schematic

|   |                 |                                 |  |   |             |
|---|-----------------|---------------------------------|--|---|-------------|
|  |                 | <b>ANALOG<br/>DEVICES</b>       |  | 20 Cotton Road<br>Nashua, NH 03063<br>PH: 1-800-ANALOGD |             |
| Title   |                 | ADSP-21364 EZ-KIT Lite<br>TITLE |  |   |             |
| Size<br>C   | Board No.       |                                 |  | A0190-2004  | Rev<br>2.0A |
| Date  | 6-22-2007_15:01 |                                 |  | Sheet   | 1 of 11     |

A

B

C

D

1

2

3

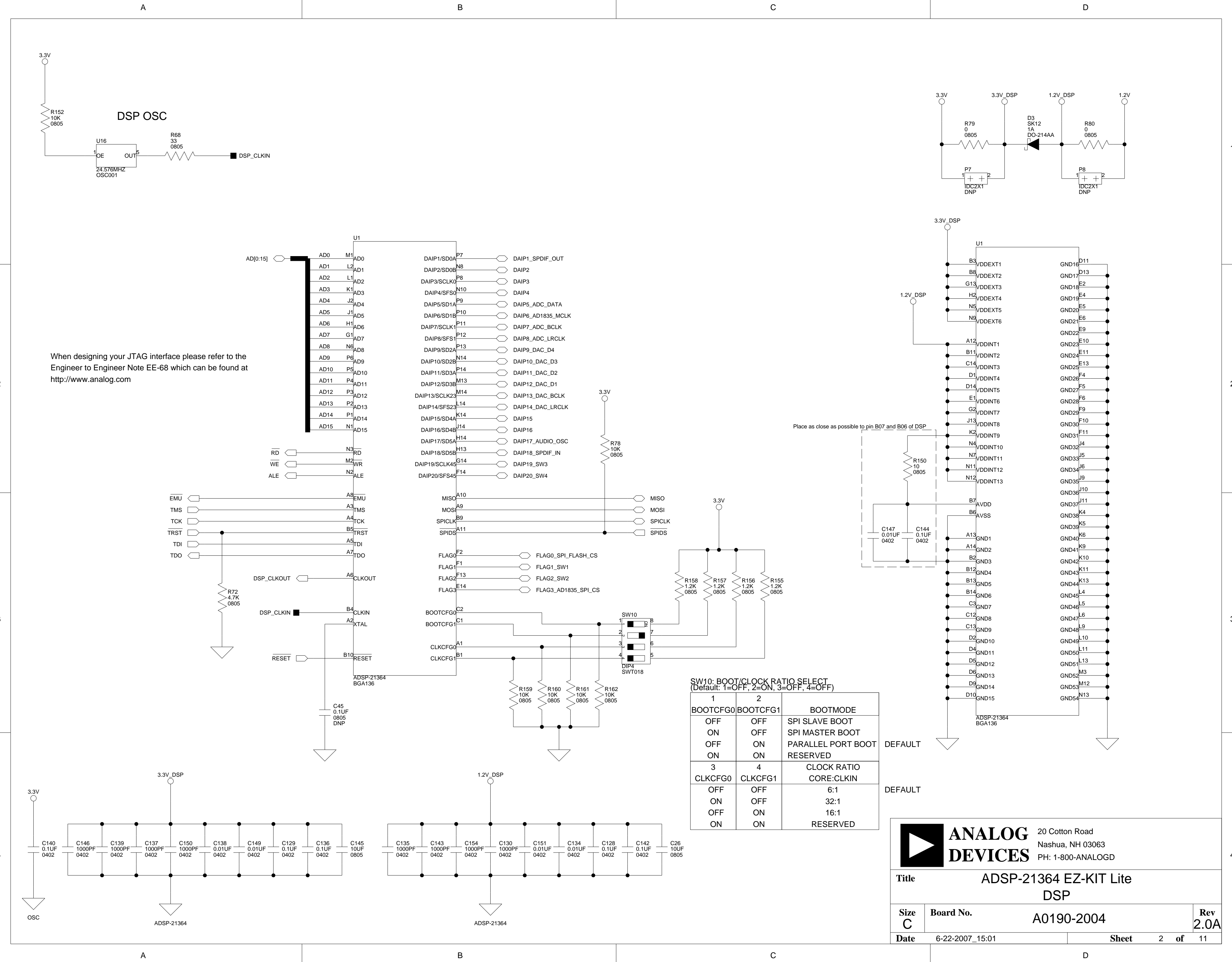
4

1

2

3

4



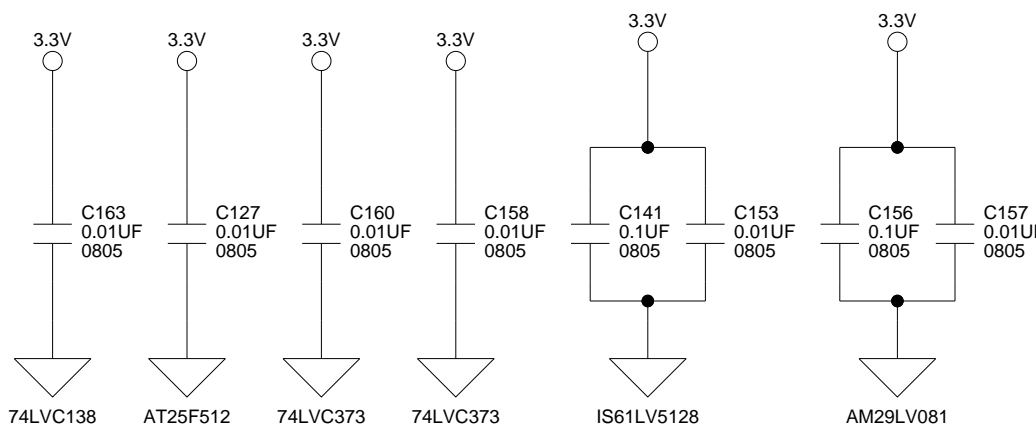
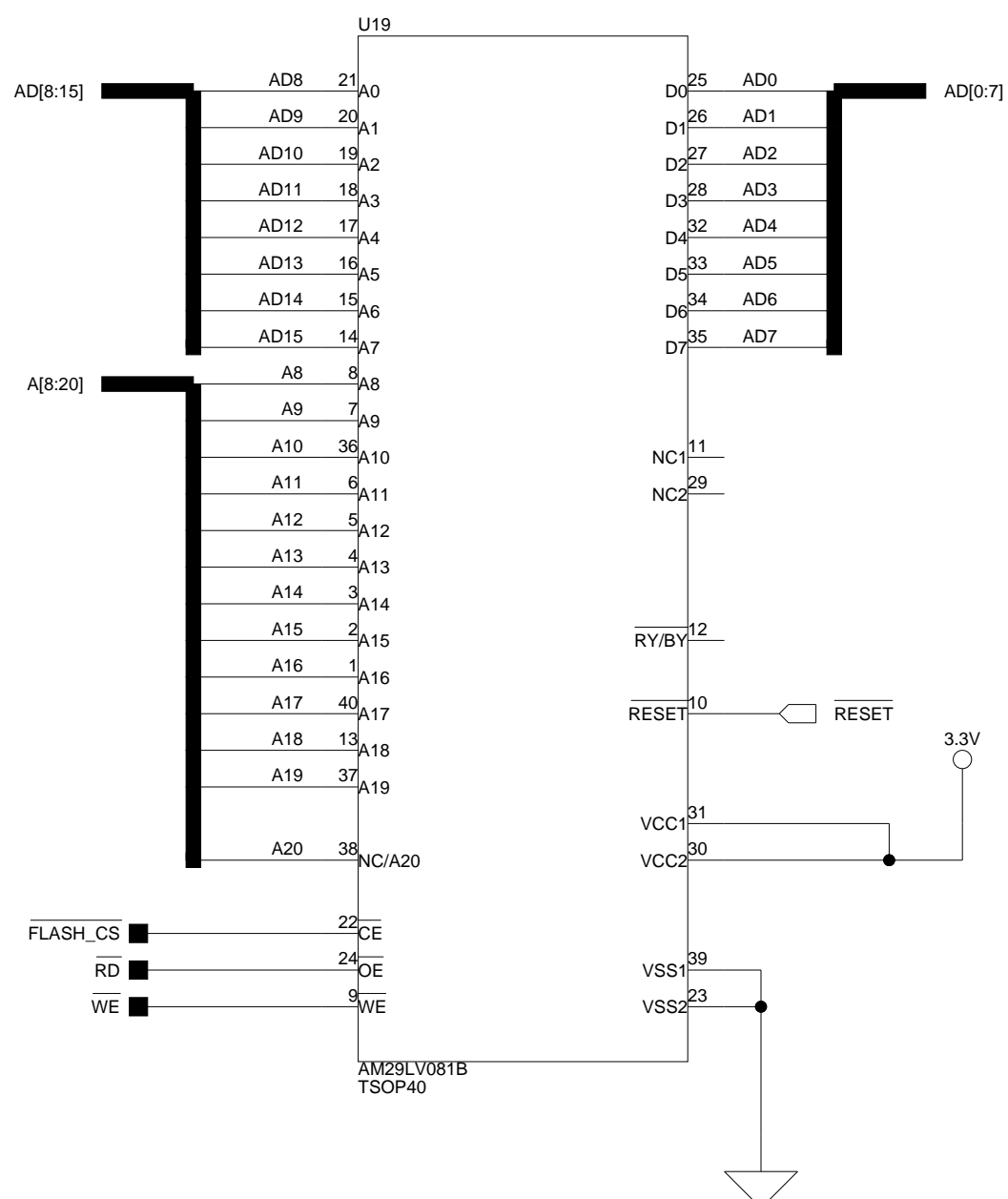
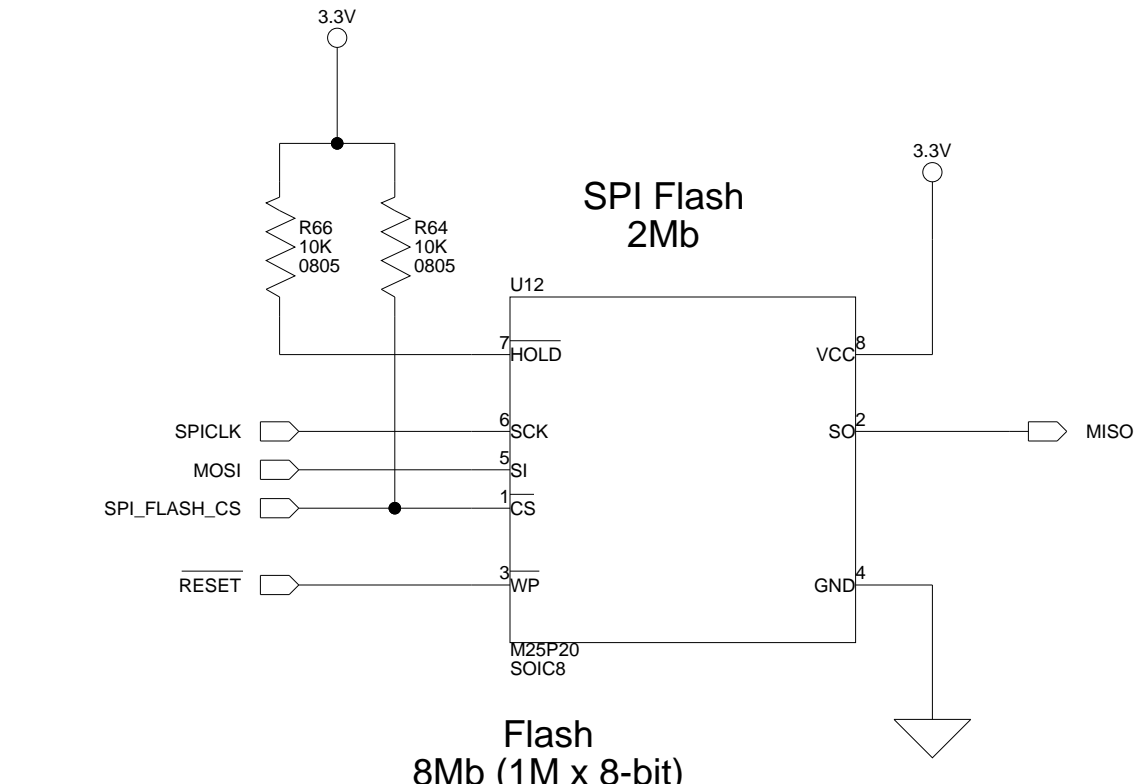
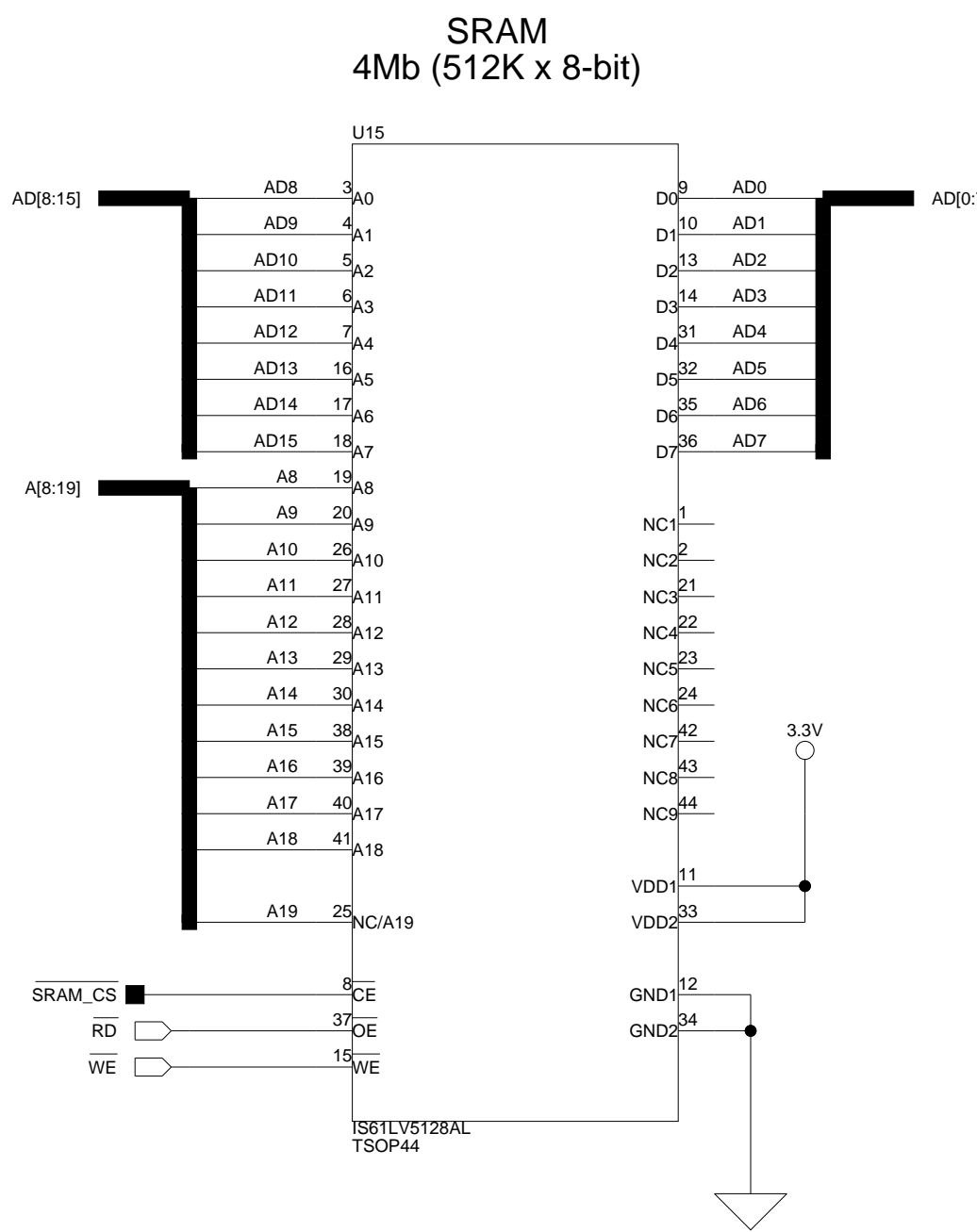
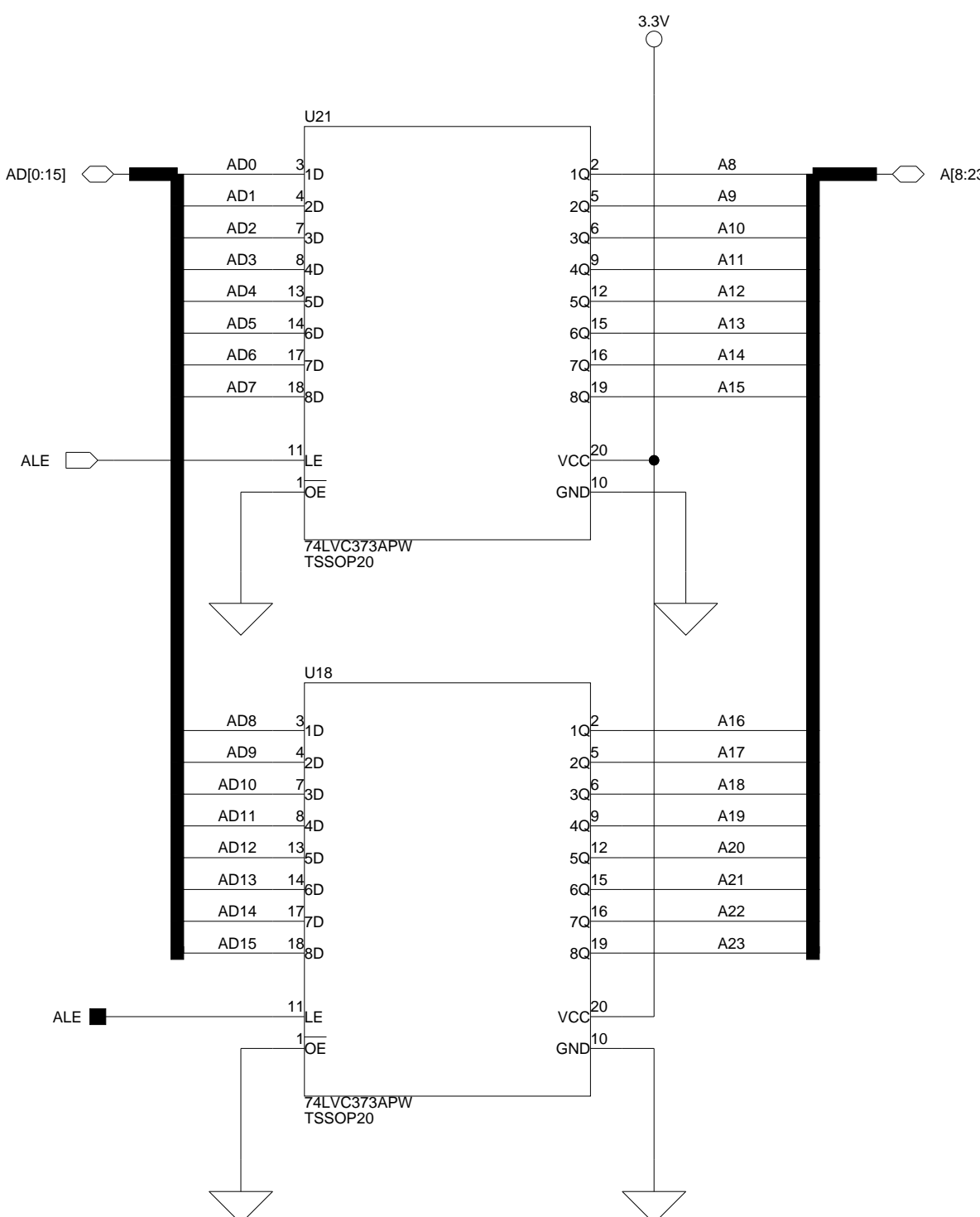
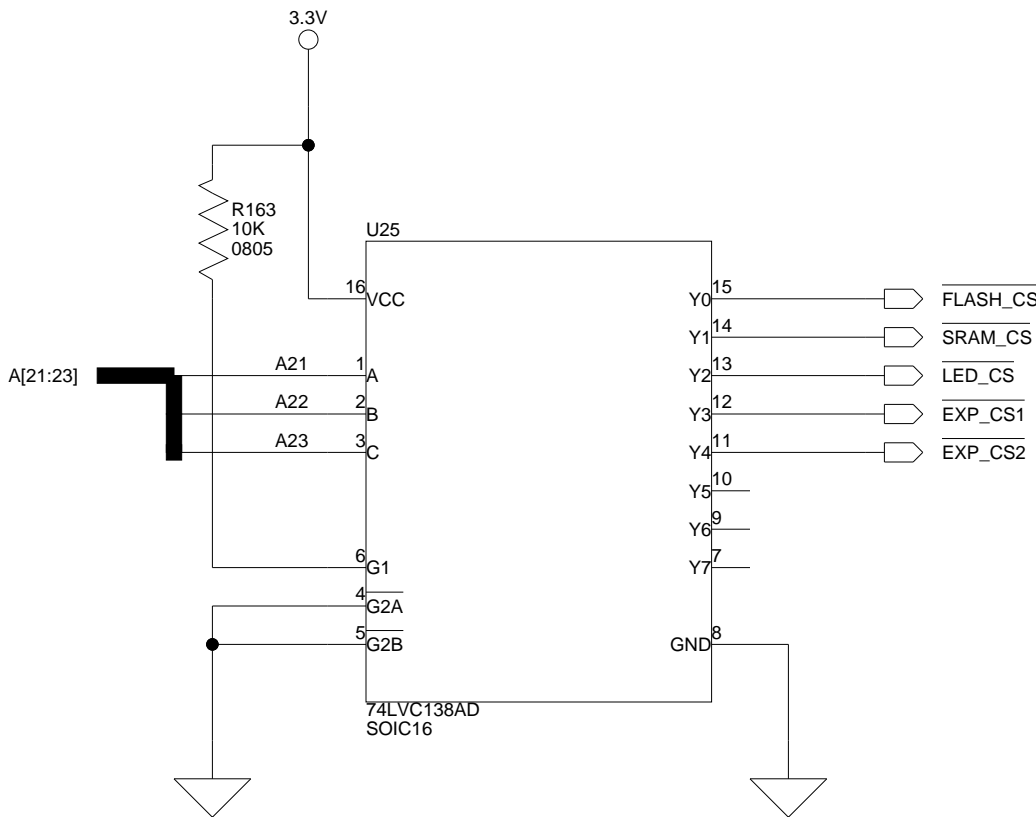
1

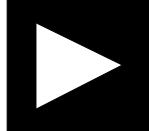
2

3

4

| VALID DSP ADDRESS |          | BANK END ADDRESS | A23 | A22 | A21 | BANK | DEVICE                   |
|-------------------|----------|------------------|-----|-----|-----|------|--------------------------|
| START             | END      | ADDRESS          |     |     |     |      |                          |
| 1A0 0000          | X        | 1FF FFFF         | 1   | -   | -   | -    | NONE                     |
| 180 0000          | X        | 19F FFFF         | 1   | 0   | 0   | Y4   | EXPANSION INTERFACE CS 2 |
| 160 0000          | X        | 17F FFFF         | 0   | 1   | 1   | Y3   | EXPANSION INTERFACE CS 1 |
| 140 0000          | 140 0000 | 15F FFFF         | 0   | 1   | 0   | Y2   | LEDs                     |
| 120 0000          | 127 FFFF | 13F FFFF         | 0   | 0   | 1   | Y1   | SRAM                     |
| 100 0000          | 10F FFFF | 11F FFFF         | 0   | 0   | 0   | Y0   | FLASH                    |





**ANALOG  
DEVICES**

20 Cotton Road  
Nashua, NH 03063  
PH: 1-800-ANALOGD

Title

ADSP-21364 EZ-KIT Lite  
MEMORY

Size  
C

Board No.

Rev

6-22-2007\_15:01

3 of 12

A0190-2004  
2.0A

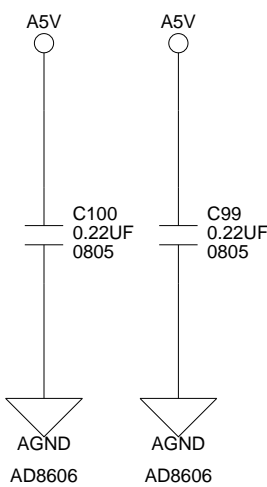
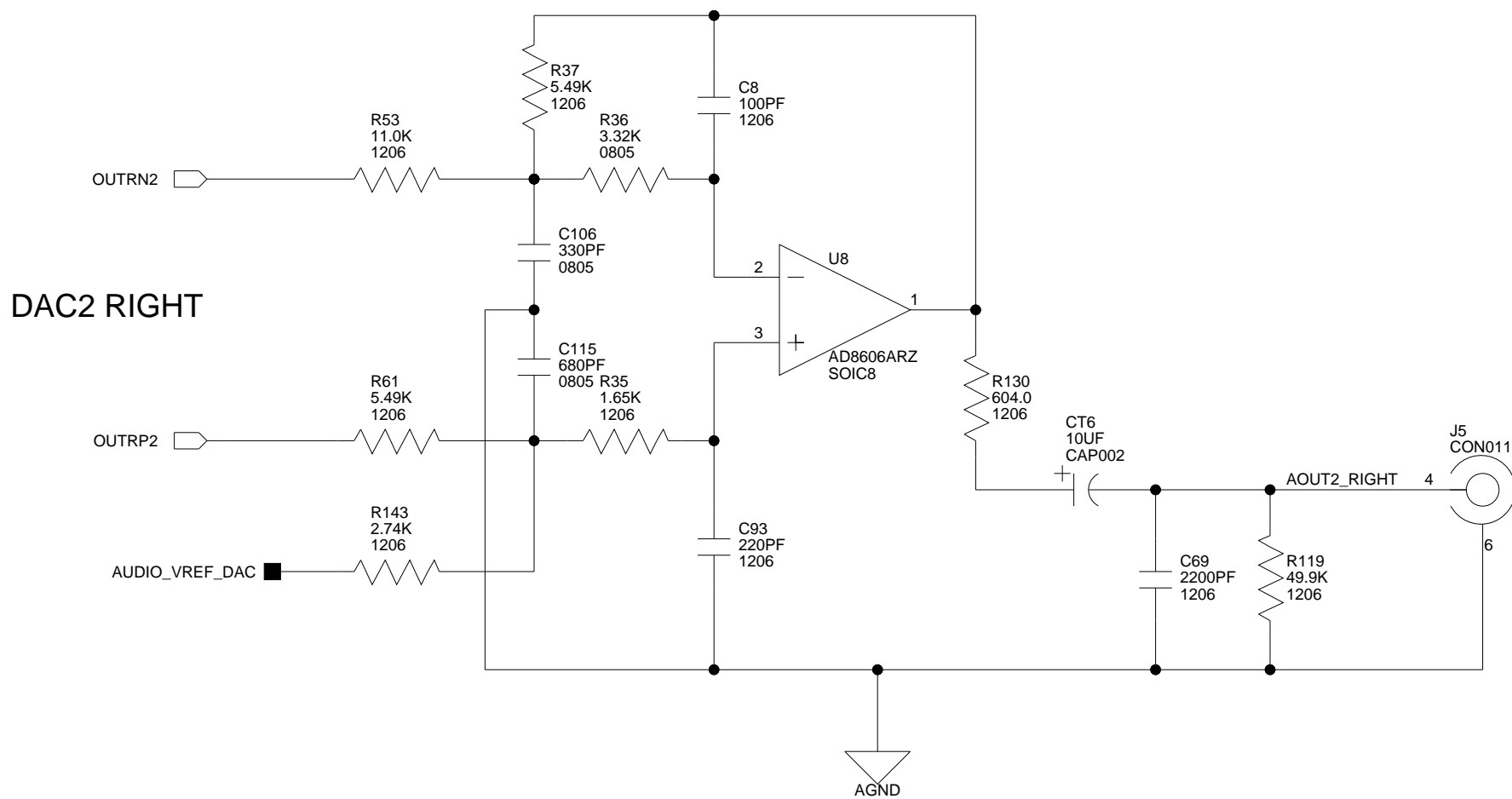
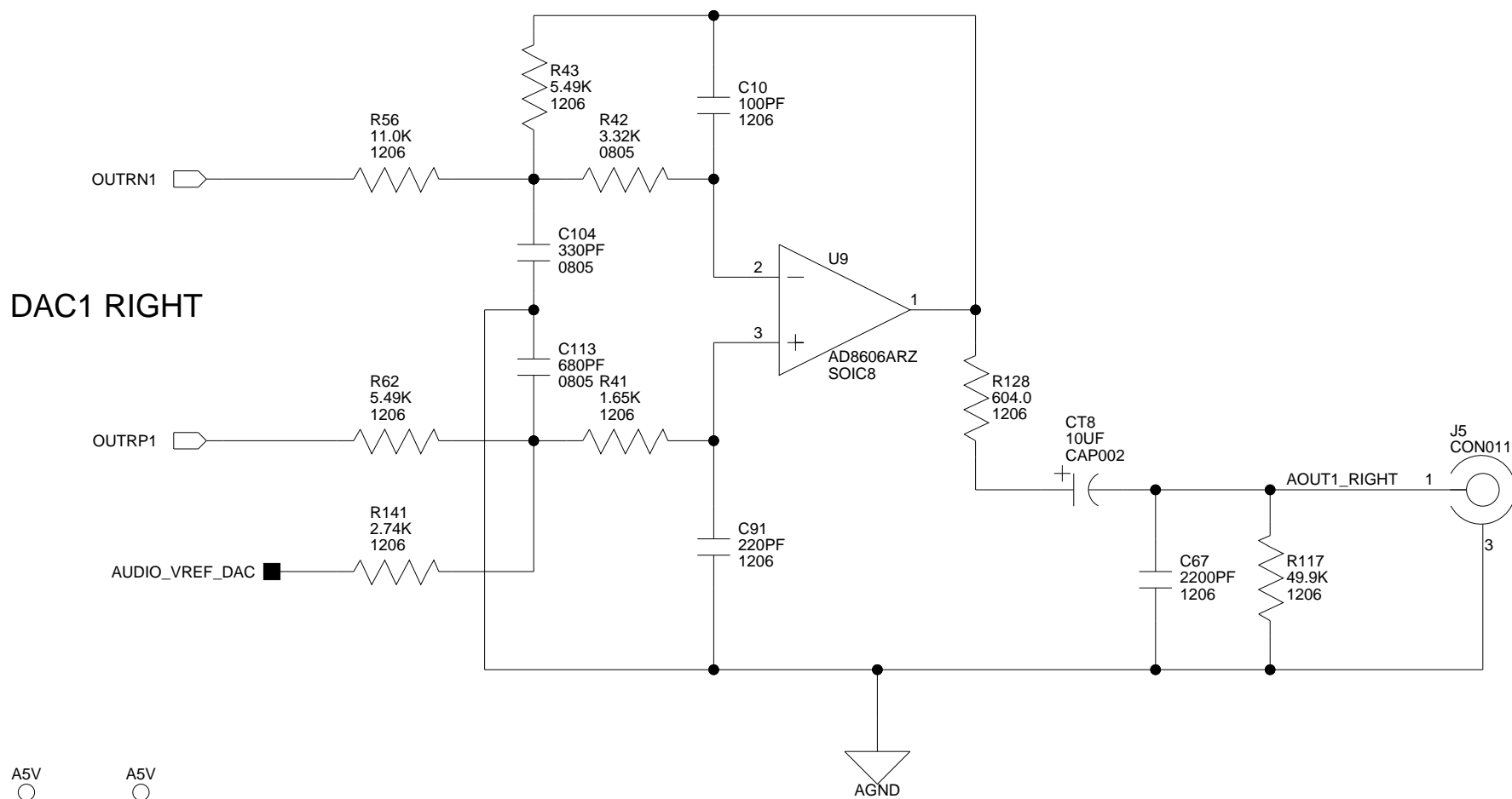
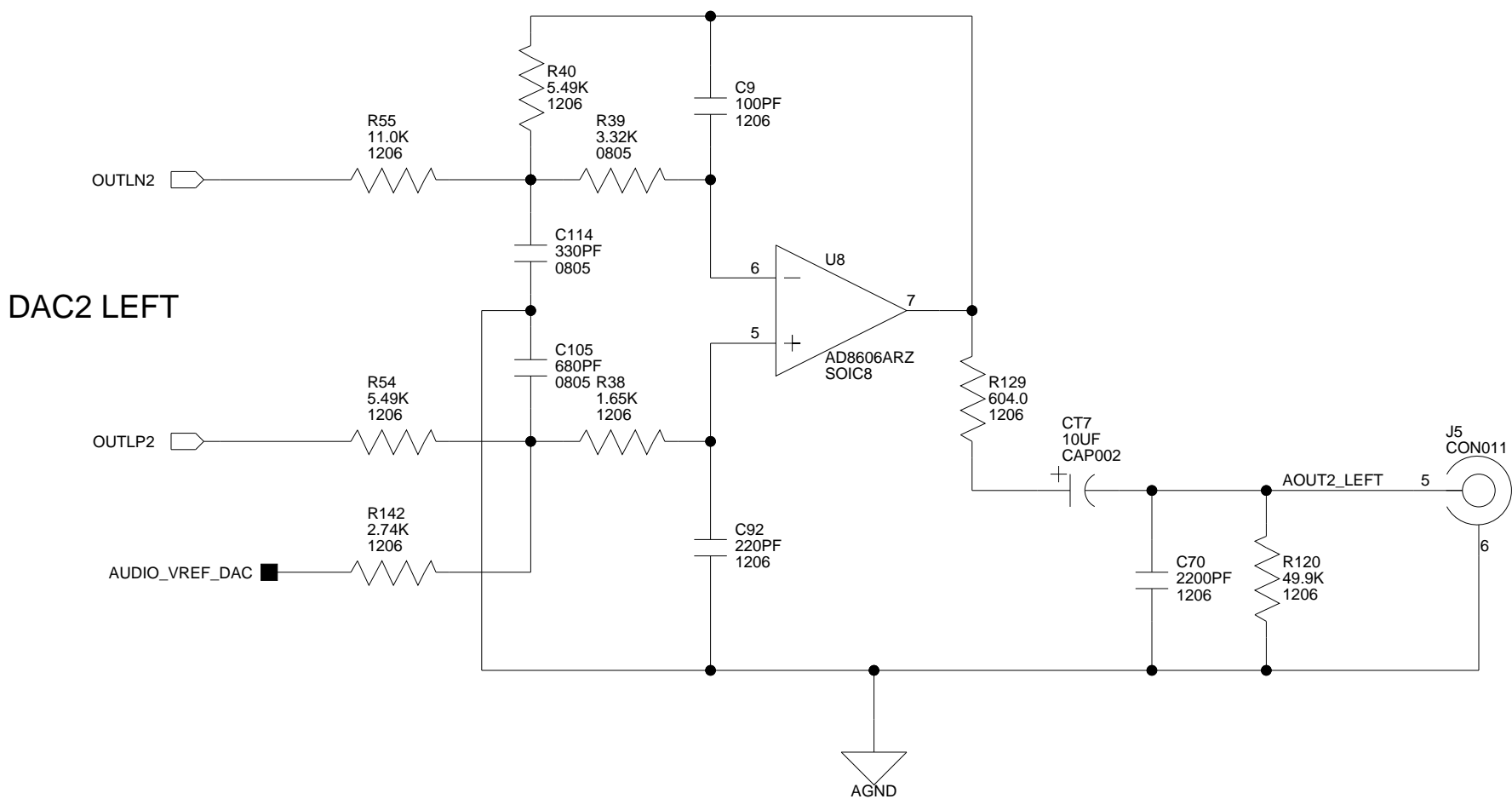
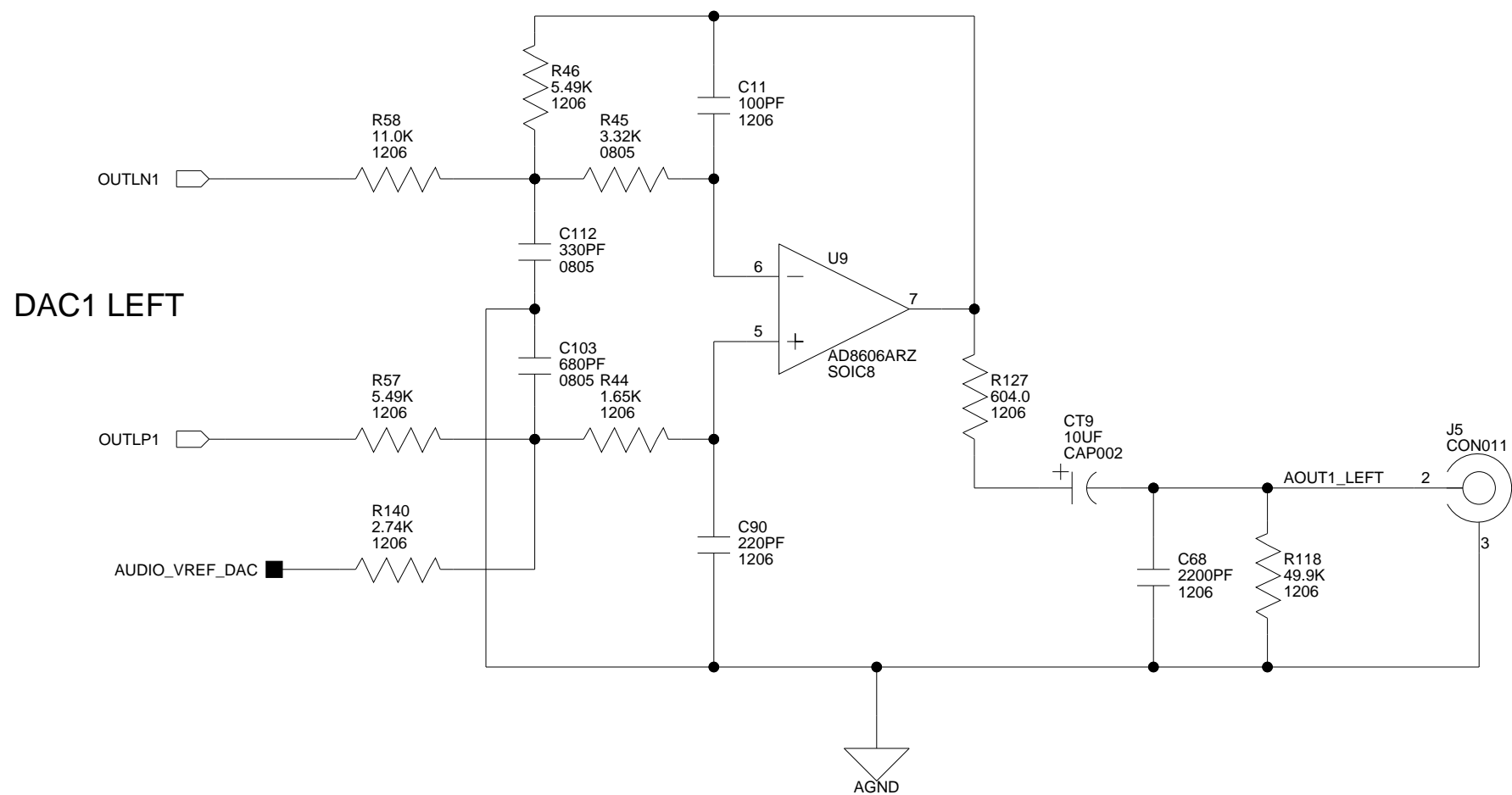
1

2

3

4



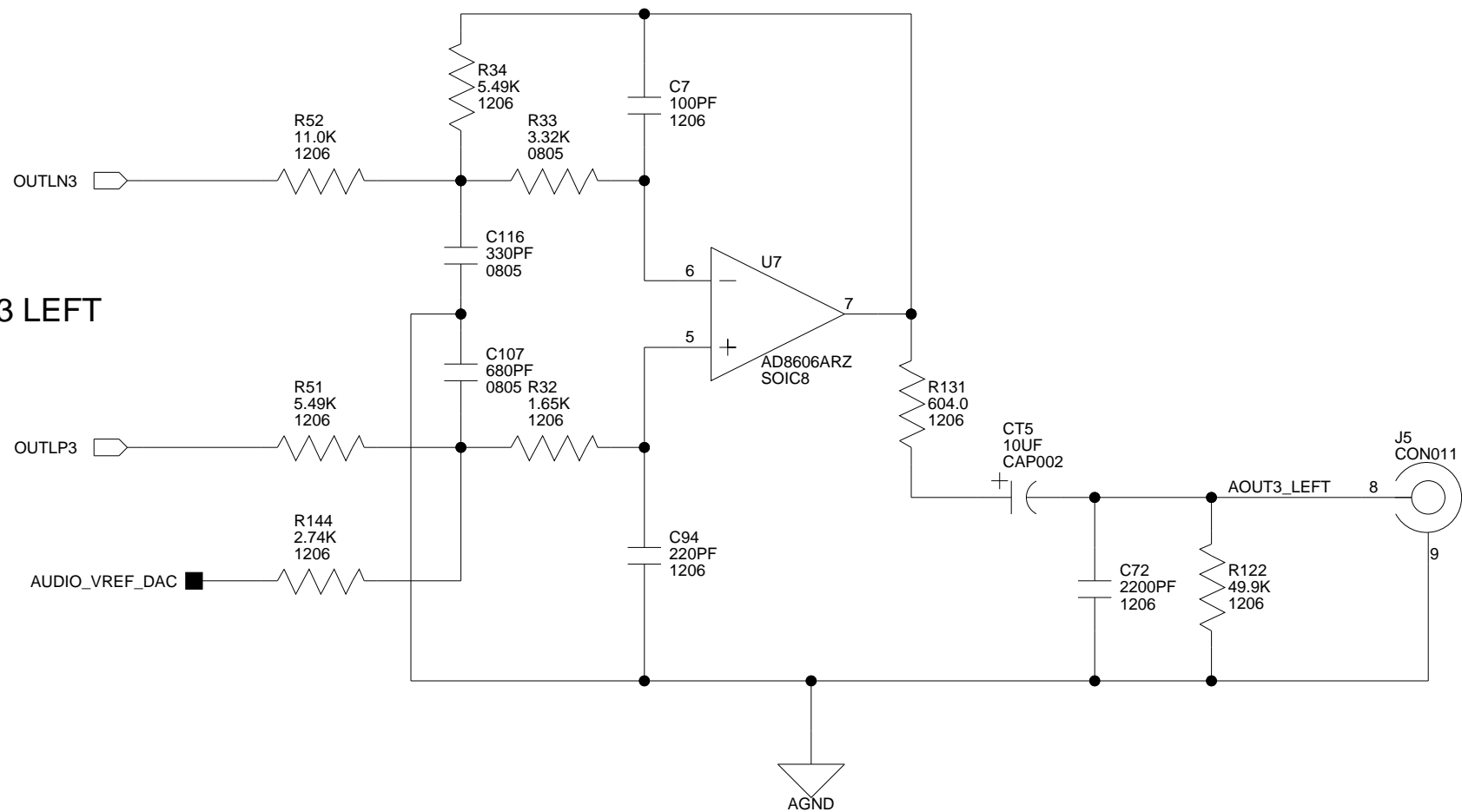


**ANALOG  
DEVICES**

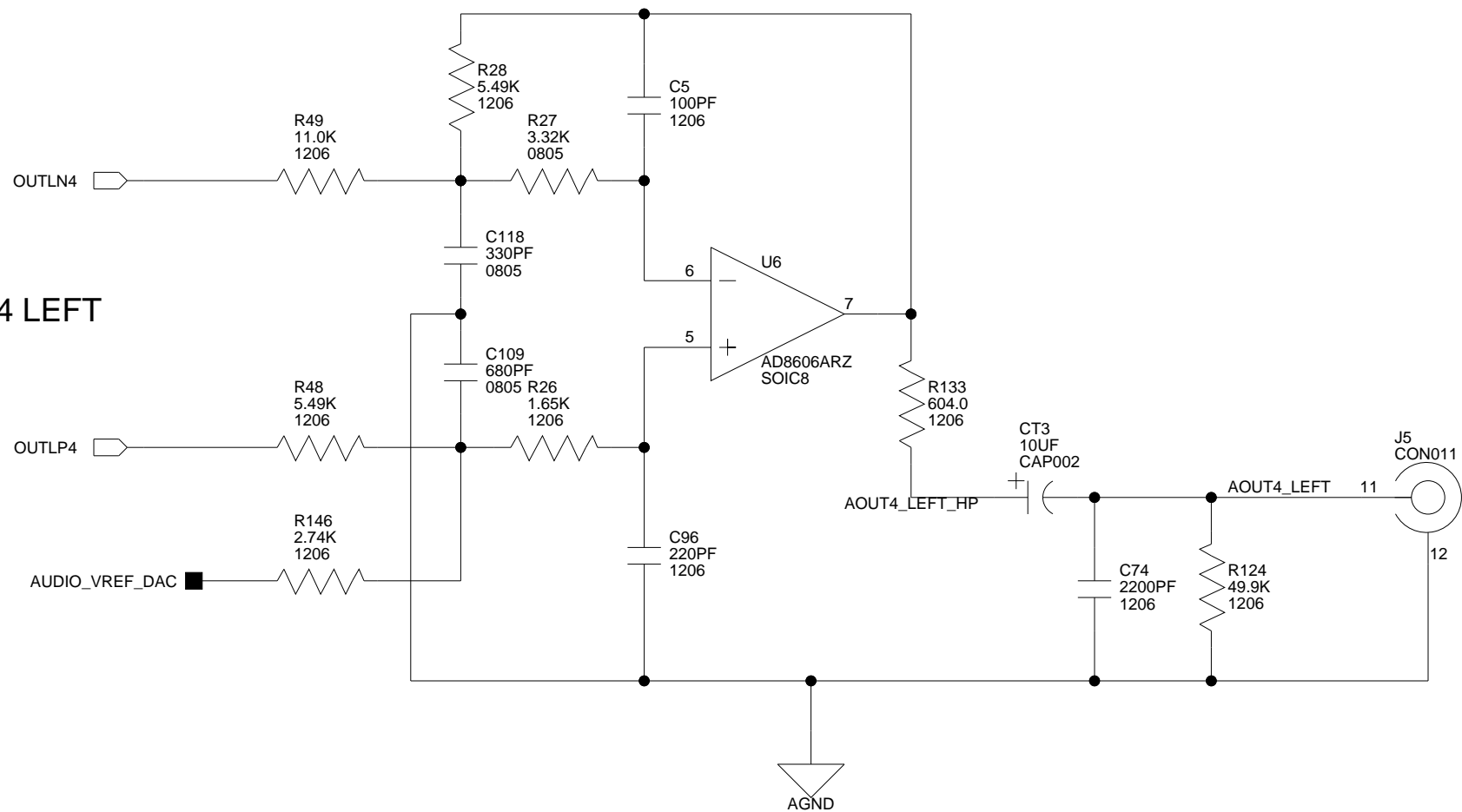
20 Cotton Road  
Nashua, NH 03063  
PH: 1-800-ANALOGD

|           |                 |  |                                       |      |             |
|-----------|-----------------|--|---------------------------------------|------|-------------|
| Title     |                 |  | ADSP-21364 EZ-KIT Lite<br>AUDIO OUT 1 |      |             |
| Size<br>C | Board No.       |  | A0190-2004                            |      | Rev<br>2.0A |
| Date      | 6-22-2007_15:01 |  | Sheet                                 | 5 of | 11          |

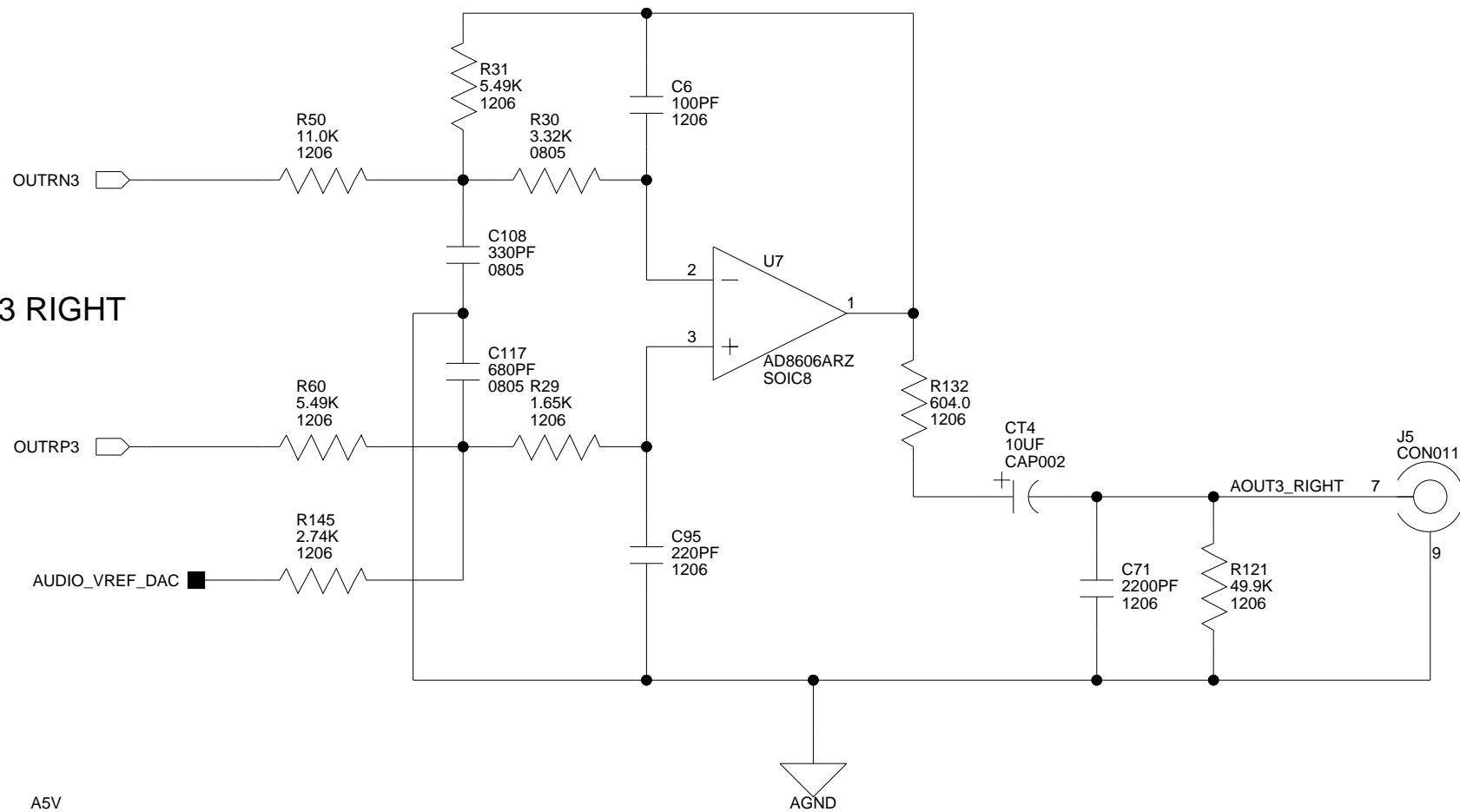
DAC3 LEFT



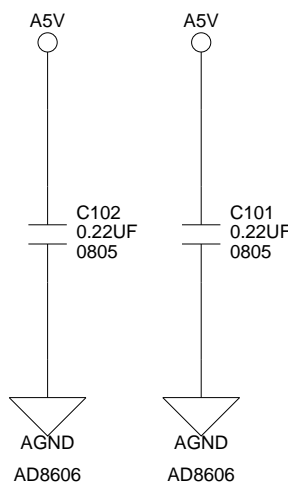
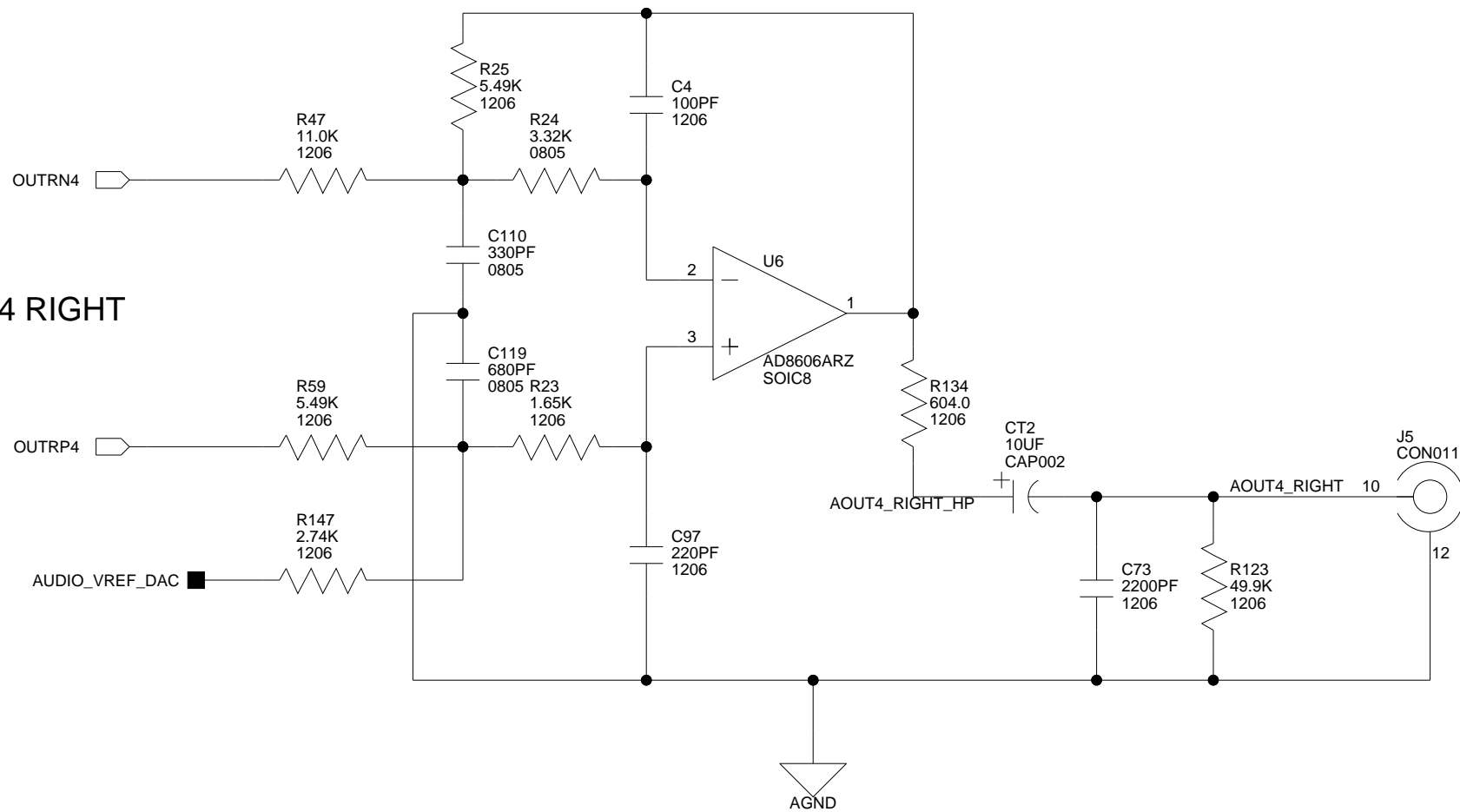
DAC4 LEFT



DAC3 RIGHT



DAC4 RIGHT



**ANALOG  
DEVICES**

20 Cotton Road  
Nashua, NH 03063  
PH: 1-800-ANALOGD

|           |                 |  |                                       |      |             |
|-----------|-----------------|--|---------------------------------------|------|-------------|
| Title     |                 |  | ADSP-21364 EZ-KIT Lite<br>AUDIO OUT 2 |      |             |
| Size<br>C | Board No.       |  | A0190-2004                            |      | Rev<br>2.0A |
| Date      | 6-22-2007_15:01 |  | Sheet                                 | 6 of | 11          |



1

2

3

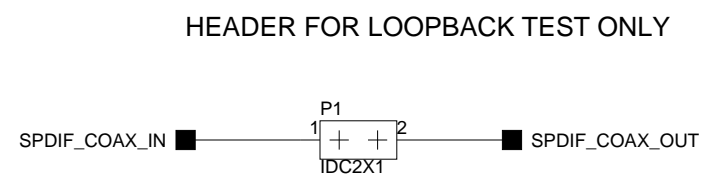
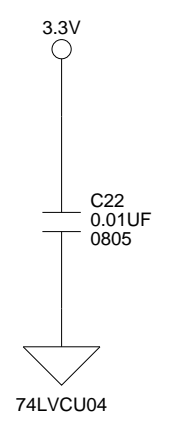
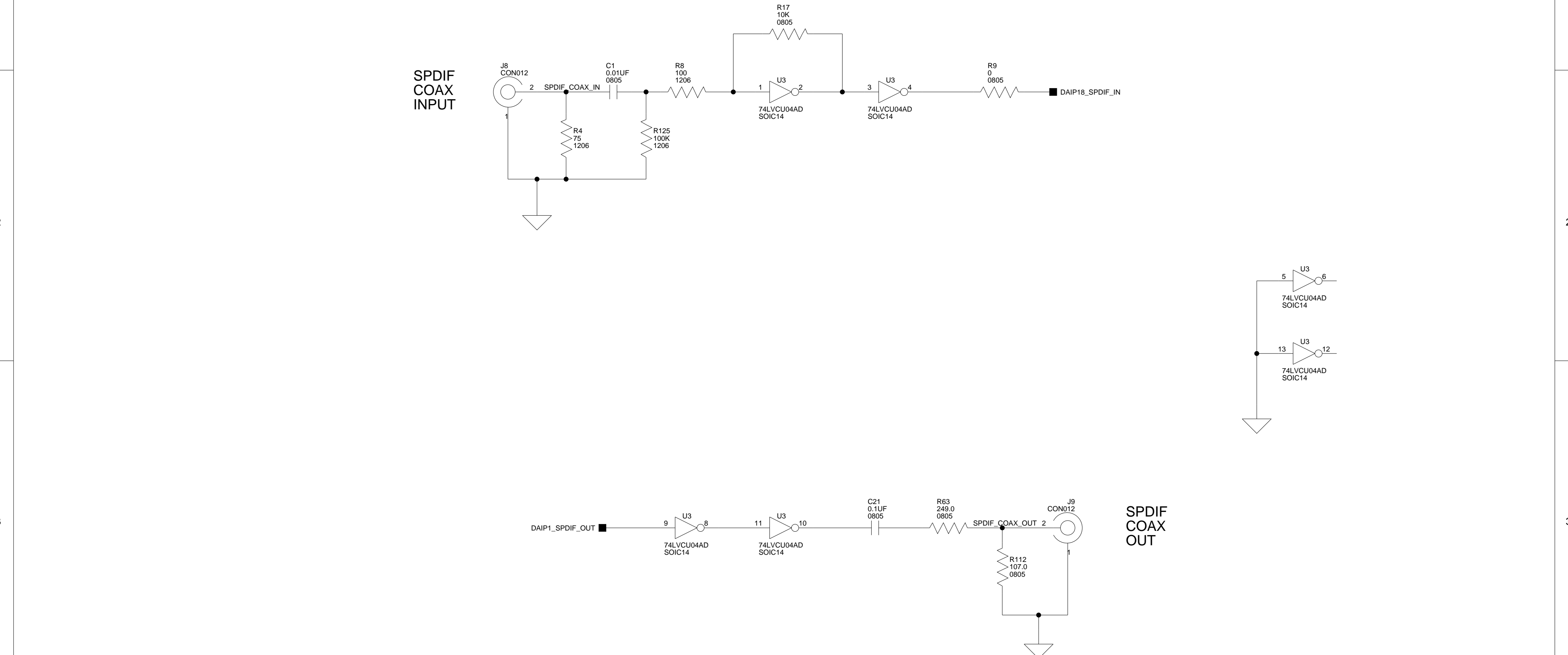
4

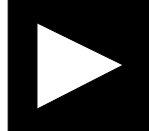
1

2

3

4



|   |                             |                           |  |   |         |
|---|-----------------------------|---------------------------|--|---|---------|
|  |                             | <b>ANALOG<br/>DEVICES</b> |  | 20 Cotton Road<br>Nashua, NH 03063<br>PH: 1-800-ANALOGD |         |
| <b>Title</b> ADSP-21364 EZ-KIT Lite<br>SPDIF CONNECTORS                               |                             |                           |  |   |         |
| <b>Size</b><br>C  | <b>Board No.</b> A0190-2004 |                           |  | <b>Rev</b><br>2.0A                                      |         |
| <b>Date</b>   | 6-22-2007_15:01             |                           |  | <b>Sheet</b>  | 8 of 11 |



1

2

3

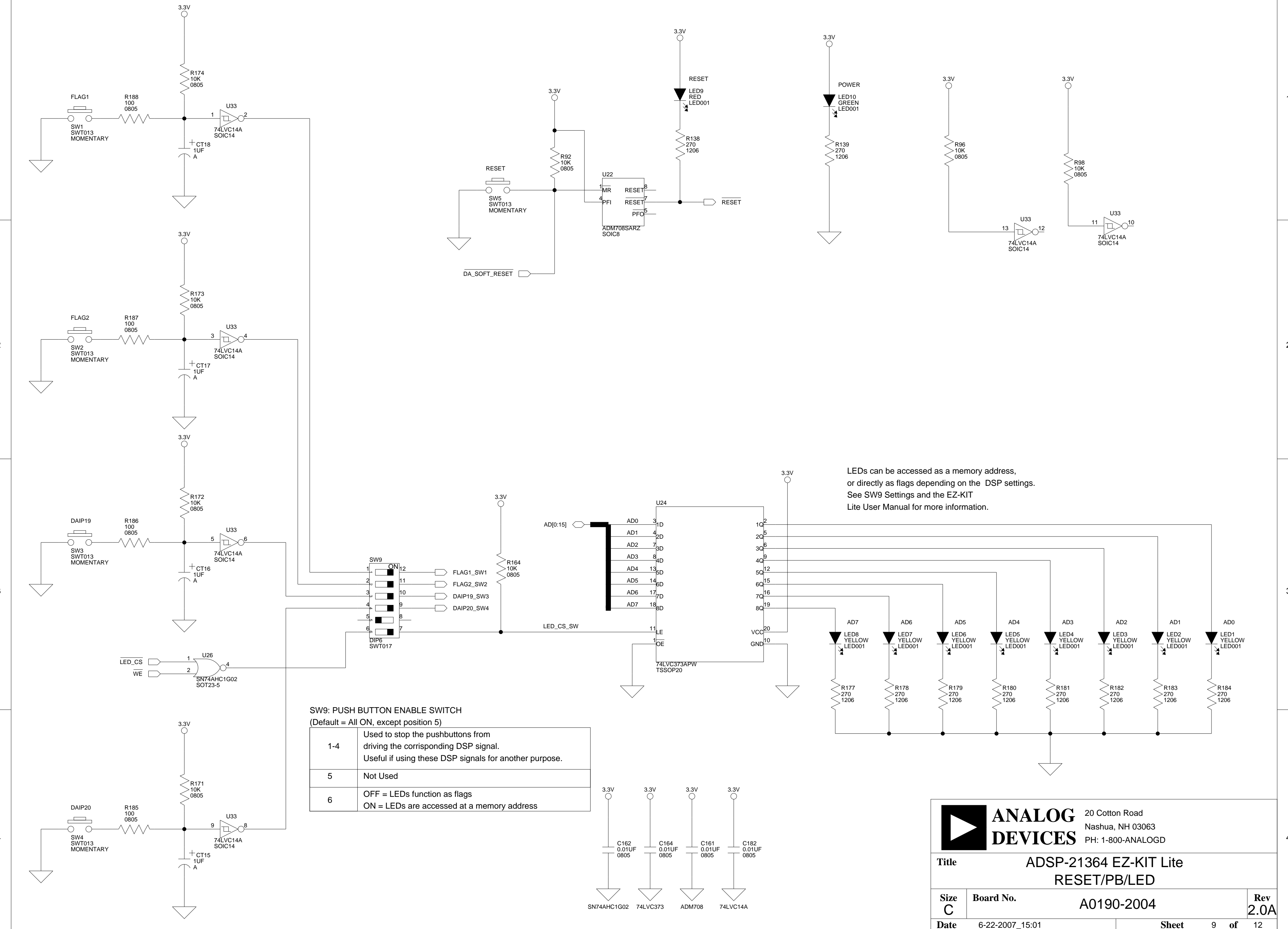
4

1

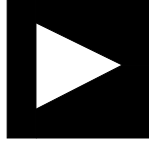
2

3

4



LEDs can be accessed as a memory address, or directly as flags depending on the DSP settings. See SW9 Settings and the EZ-KIT Lite User Manual for more information.

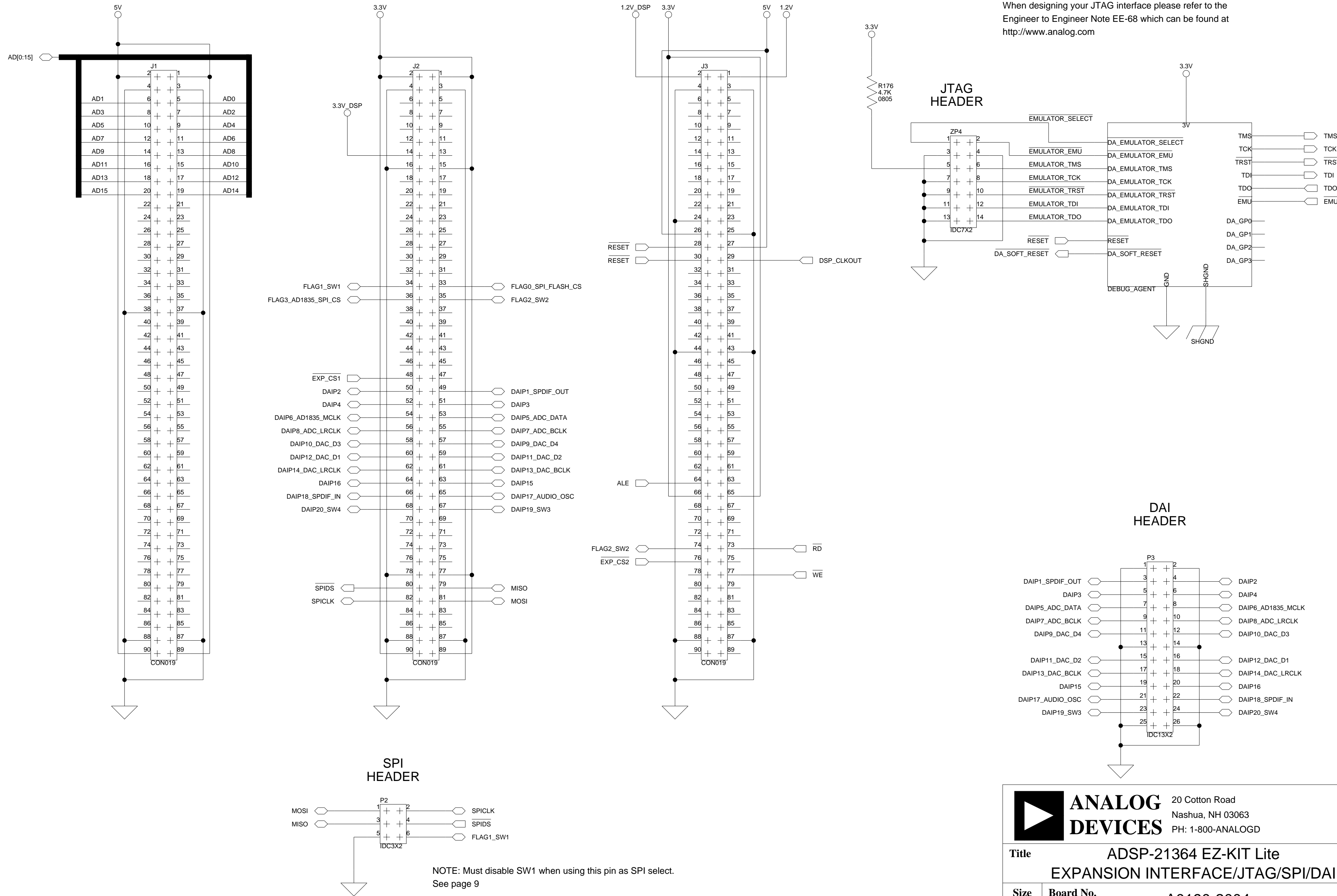


**ANALOG  
DEVICES**

20 Cotton Road  
Nashua, NH 03063  
PH: 1-800-ANALOGD

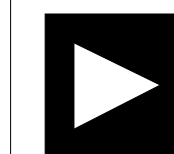
|   |                                |                    |
|---|--------------------------------|--------------------|
| Title<br><b>ADSP-21364 EZ-KIT Lite<br/>RESET/PB/LED</b> |                                |                    |
| Size<br><b>C</b>  | Board No.<br><b>A0190-2004</b> | Rev<br><b>2.0A</b> |
| Date<br>6-22-2007_15:01                                 | Sheet<br>9                     | of<br>12           |

## EXPANSION INTERFACE (TYPE A)



All USB interface circuitry is considered proprietary and has been omitted from this schematic.

When designing your JTAG interface please refer to the Engineer to Engineer Note EE-68 which can be found at <http://www.analog.com>



**ANALOG  
DEVICES**

20 Cotton Road  
Nashua, NH 03063  
PH: 1-800-ANALOGD

|           |                 |  |  |       |             |
|-----------|-----------------|--|--|-------|-------------|
| Title     |                 |  | ADSP-21364 EZ-KIT Lite<br>EXPANSION INTERFACE/JTAG/SPI/DAI |       |             |
| Size<br>C | Board No.       |  | A0190-2004   |       | Rev<br>2.0A |
| Date      | 6-22-2007_15:01 |  | Sheet  | 10 of | 11          |

1

2

3

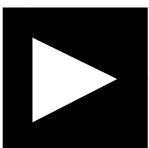
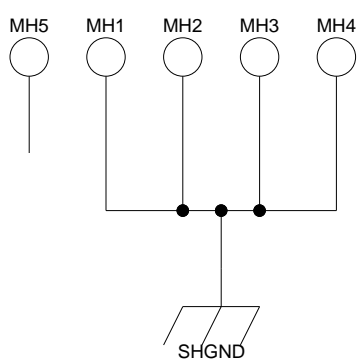
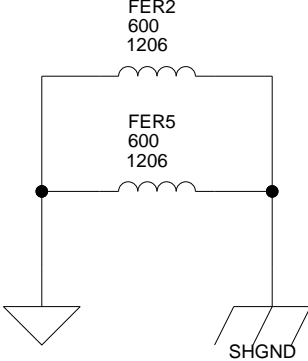
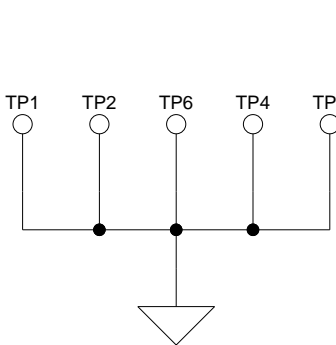
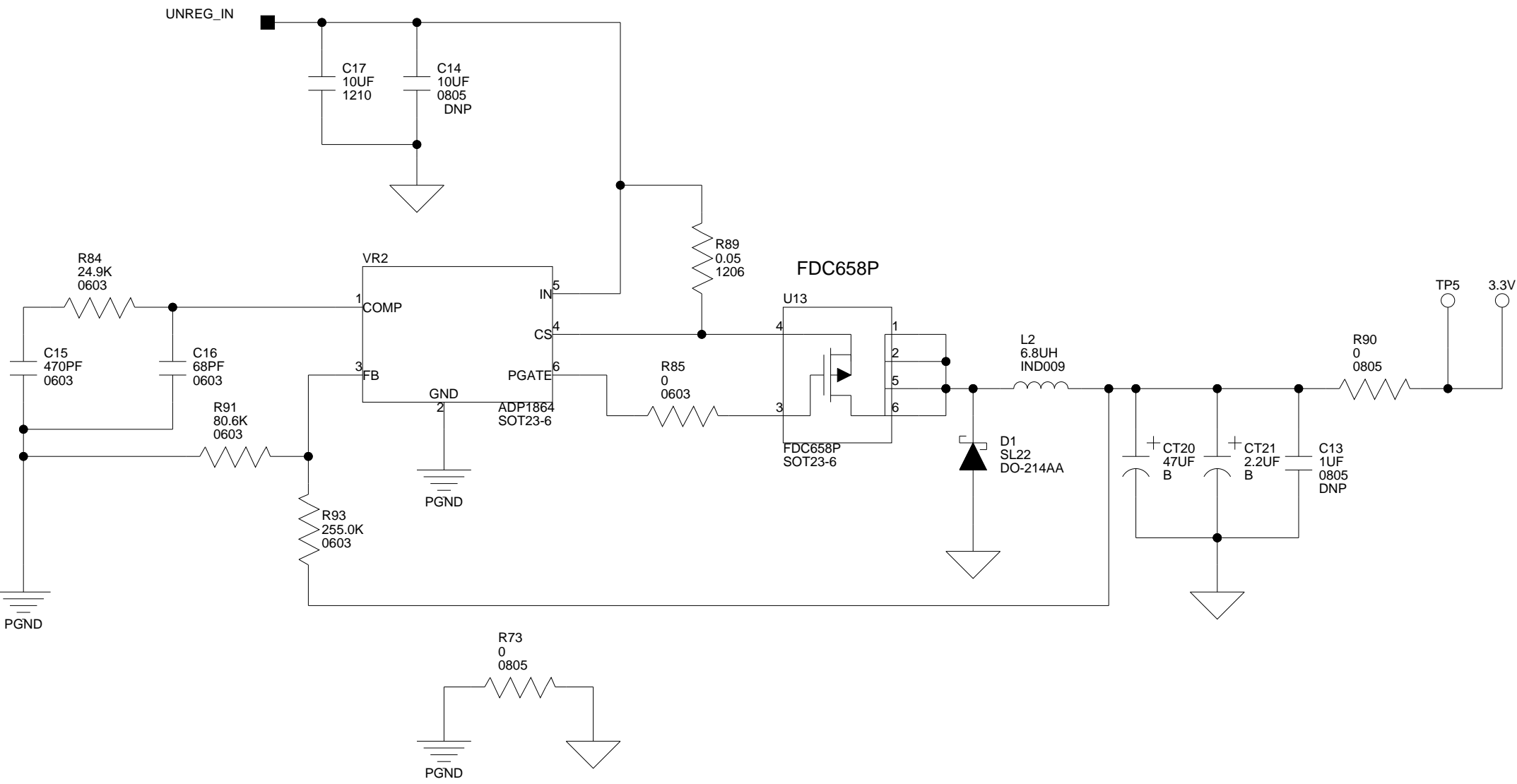
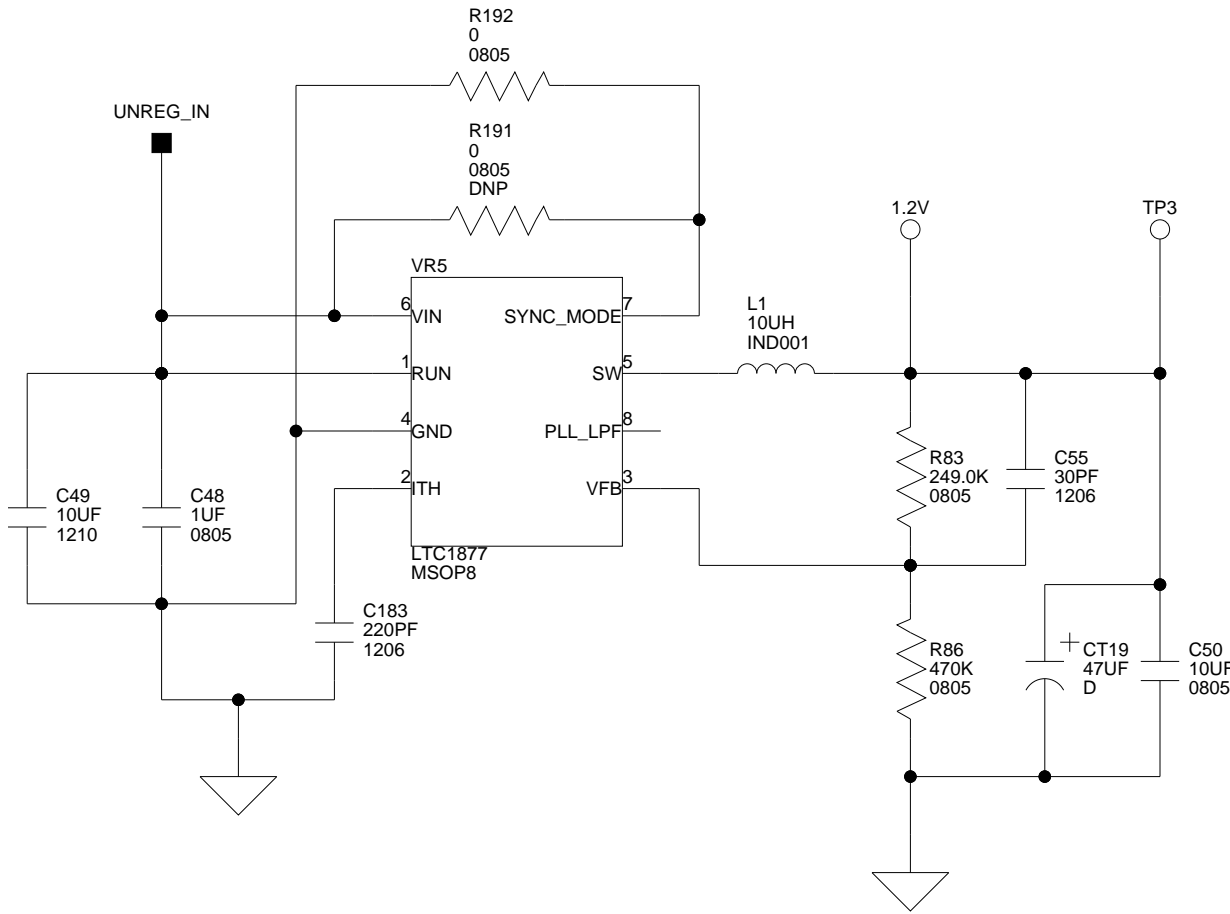
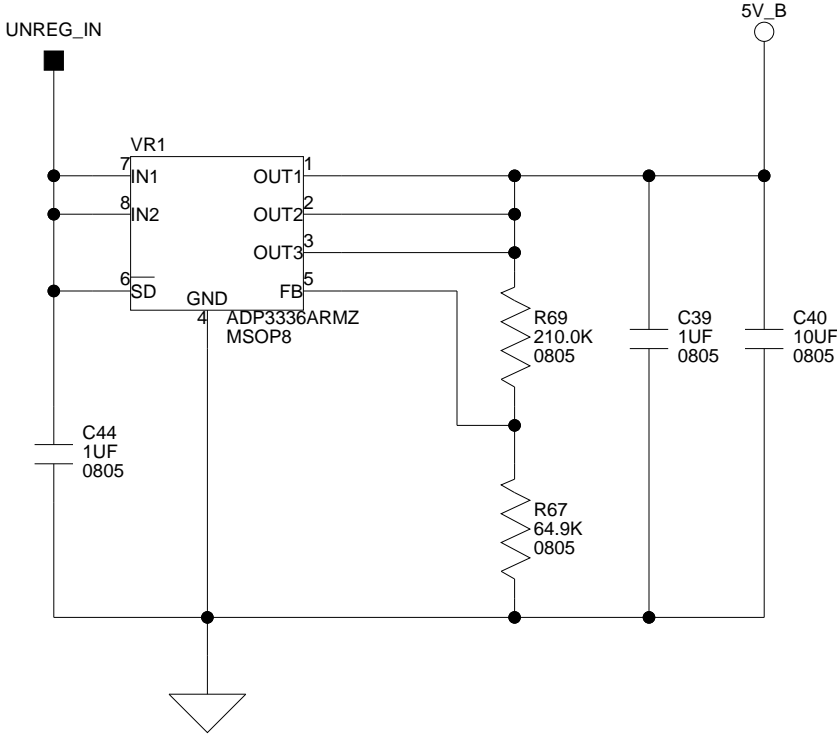
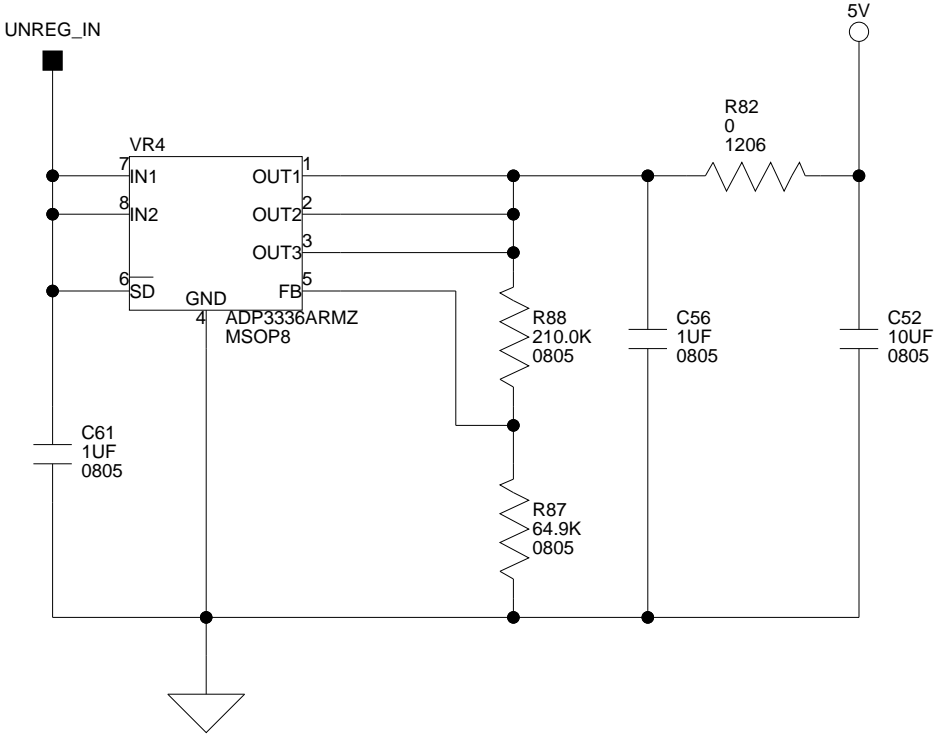
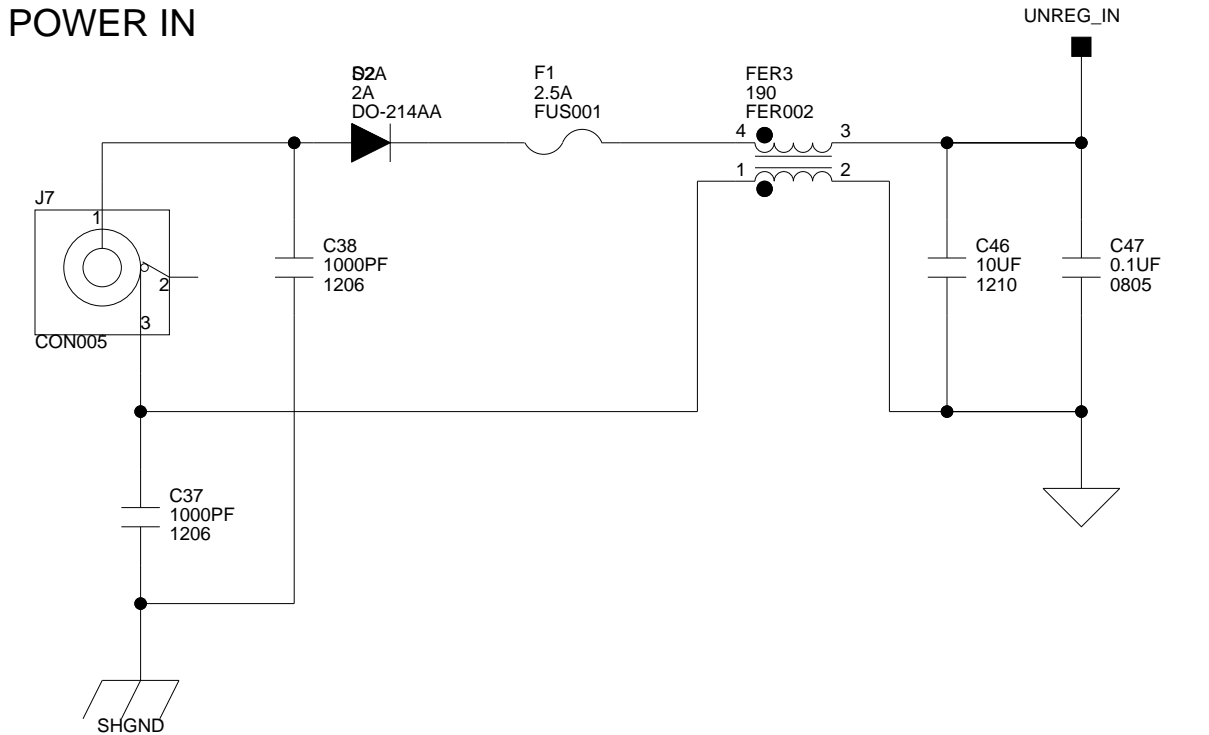
4

1

2

3

4



**ANALOG  
DEVICES**

20 Cotton Road  
Nashua, NH 03063  
PH: 1-800-ANALOGD

|           |                 |  |                                 |       |             |
|-----------|-----------------|--|---------------------------------|-------|-------------|
| Title     |                 |  | ADSP-21364 EZ-KIT Lite<br>POWER |       |             |
| Size<br>C | Board No.       |  | A0190-2004                      |       | Rev<br>2.0A |
| Date      | 6-22-2007_15:01 |  | Sheet                           | 11 of | 11          |