Analog Front End

Reset Switch

<table>
<thead>
<tr>
<th>Stuffing Options</th>
<th>For ADV7182A</th>
<th>For ADV7280A</th>
</tr>
</thead>
<tbody>
<tr>
<td>R20</td>
<td>75r</td>
<td>R20</td>
</tr>
<tr>
<td>R28 &amp; R29</td>
<td>430r</td>
<td>R28 &amp; R29 51r</td>
</tr>
<tr>
<td>R33 &amp; R35</td>
<td>1K3</td>
<td>R33 &amp; R35 24r</td>
</tr>
</tbody>
</table>

Power Supply Decoupling

- Place test points as close to DUT as possible.
- All decoupling caps to be located close to ADV7182.
- Ensure that parasitic capacitance is considered when choosing load cap.

Analog Devices

EVAL-ADV7182A/ADV7280AEBZ

ADV7182A/ADV7280A

- Locate close to DUT and same side as DUT.
- More test points important as no DUT is shown.
- Set I2C Address.

Two Single-Ended Inputs

- One Differential Input
ADV7391 Power Supply Decoupling

LOCATE ON COMPONENT SIDE AND CLOSE TO OUT

Put ground fingers between DAC outputs and as much space between them as possible

LOCATE ON COMPONENT SIDE AND CLOSE TO OUT

GND TEST POINT AT I/P

GND TEST POINT AT O/P

ADV7391

ADV7182A/ADV7280A
April 2017
Joe Triggs

Analog Devices
EVAL-ADV7182A/ADV7280AEBZ
N/A
A2
REV: A
SIZE: A
CODE: A
DRAWN: DATED: CHECKED: QUALITY CONTROL: DATED: RELEASED:}

COMPANY: Analog Devices
TITLE: EVAL-ADV7182A/ADV7280AEBZ
DRAWING NO: A2
REV: A
Sheet 2 of 4
Power Section

- **ADV7182A/ADV7280A**
- **EVAL-ADV7182A/ADV7280AEBZ**
- **April 2017**

**COMPANY:** Analog Devices

**DRAWING NO.:** A2ADV7182A/ADV7280A

**SCALE:**

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<tr>
<th>Layer</th>
<th>Net</th>
<th>Description</th>
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<tbody>
<tr>
<td>A</td>
<td>IN</td>
<td>1.8VD</td>
</tr>
<tr>
<td>A</td>
<td>GND</td>
<td>1.8VD</td>
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<tr>
<td>A</td>
<td>OUT</td>
<td>1.8VD</td>
</tr>
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<td>1.8VD</td>
<td>DUT Digital Core Supply 1.8V</td>
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<tr>
<td>A</td>
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<td>DUT PLL Supply 1.8V</td>
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<tr>
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<td>3.3V</td>
<td>DUT I/O Supply 3.3V</td>
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<td>ADV7391 Analog Supply 3.3V</td>
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<tr>
<td>A</td>
<td>3.3V</td>
<td>ADV7391 PLL Supply</td>
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</table>

**Power Section Diagram:**

- **EXT. +7.5V Power supply connector**
- **S1BL**
- **J8**
- **PWR_CONN_DC10A**

**Net Values:**

- **C20:** 33uF
- **C23:** 33uF
- **C24:** 33uF
- **C25:** 33uF
- **C30:** 33uF

**Components:**

- **D1:** S1BL
- **D2:** S1BL
- **D6:** R38 220r
- **C72:** 220uF
- **C35:** 220uF
- **C36:** 220uF

**Analog Devices**

**Date:** April 2017

**Released By:** Joe Triggs

**Checked By:**

**QC By:**

**Approved By:**