



## Product/Process Change Notice - PCN 16\_0170 Rev. -

Analog Devices, Inc. Three Technology Way Norwood, Massachusetts 02062-9106

This notice is to inform you of a change that will be made to certain ADI products (see Appendix A) that you may have purchased in the last 2 years. **Any inquiries or requests with this PCN (additional data or samples) must be sent to ADI within 30 days of publication date.** ADI contact information is listed below.

**PCN Title:** AD9152 Die Revision and Data Sheet Update  
**Publication Date:** 01-Sep-2016  
**Effectivity Date:** 30-Nov-2016 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

Die Revision Changes:  
- Rewire charge pump circuitry to increase the initial charge pump voltage.

### Reason For Change

Die Revision Changes:  
- The change addresses an issue where at cold temperatures, the on-chip phase-locked loops (PLLs) for either the SERDES or DAC clock PLLs may not lock from startup due to a low initial charge pump voltage.

### Impact of the change (positive or negative) on fit, form, function & reliability

There is no change to the fit, form and reliability of the devices.  
The functionality is improved with the revision when attempting to lock the SERDES and/or DAC PLLs at cold temperatures. The SERDES or DAC clock PLL will always lock at cold temperatures.

### Product Identification *(this section will describe how to identify the changed material)*

The Revision ID Register Address 0x06 default value changes from 0x07 to 0x08 for silicon revision traceability.  
Changes will be reflected in the Rev. A of the AD9152 data sheet.

### Summary of Supporting Information

Due to minor nature of the change, no qualification testing is required.

### Comments

New optimized register settings for PLL programming will be listed in the required SERDES PLL Settings and required DAC PLL Settings tables in the text of the datasheet.

**Supporting Documents** None

For questions on this PCN, please send an email to the regional contacts below or contact your local ADI sales representatives.

**Americas:** PCN\_Americas@analog.com

**Europe:** PCN\_Europe@analog.com

**Japan:**

PCN\_Japan@analog.com



**Appendix A - Affected ADI Models**

**Added Parts On This Revision - Product Family / Model Number (2)**

AD9152 / AD9152BCPZ

AD9152 / AD9152BCPZRL

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	01-Sep-2016	30-Nov-2016	Initial Release

Analog Devices, Inc.

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