



## Product/Process Change Notice - PCN 14\_0074 Rev. A

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This notice is to inform you of a change that will be made to certain ADI products (see Material Report). Any issues with this PCN or requirements to qualify the change (additional data or samples) must be sent to ADI within 30 days of publication date. ADI contact information is listed below.

*Note: Revised fields are indicated by a red field name. See Appendix B for revision history.*

**PCN Title:** AD9139 Die revision.  
**Publication Date:** 02-Jun-2014  
**Effectivity Date:** 02-Jun-2014 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Correction to the part number, (AD9139), in the table header only of the Qualification Results Summary. The Qualification Results are correct and remain the same.

### Description Of Change

Changes to the reset circuit of the data interface Delay Locked Loop (DLL) to improve robustness. Changes were done in the metal and contact layers.

### Reason For Change

The change addresses an issue where under certain conditions (cold temp, high voltage, and duty cycle of Data Clock In), the data interface delay-locked loop (DLL) may fail to start up properly when exiting the reset state.

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

The digital bug is corrected/removed. No other impact to form, fit, and function of the die.

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

Die revision ID in register 0x7F is changed from 0x07 to 0x0B.

### Summary of Supporting Information

Qualification has been performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Qualification Report Summary.

The change has been verified in simulation and bench testing.

### Supporting Documents

**Attachment 1: Type:** Qualification Results Summary

ADI\_PCN\_14\_0074\_Rev\_A\_Qualification Results Summary AD9139.pdf

**For questions on this PCN, send email to the regional contacts below or contact your local ADI sales representative**

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

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

**Japan:**

PCN\_Japan@analog.com



**Appendix A - Affected ADI Models**

**Existing Parts - Product Family / Model Number (2)**

AD9139 / AD9139BCPZ

AD9139 / AD9139BCPZRL

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	14-Apr-2014	02-May-2014	Initial release.
Rev. A	02-Jun-2014	02-Jun-2014	Correction to the part number, (AD9139), in the table header only of the Qualification Results Summary. The Qualification Results are correct and remain the same.

Analog Devices, Inc.

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