



Product/Process Change Notice - PCN 14_0070 Rev. -

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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.

PCN Title: AD9142A Die Revision
Publication Date: 26-Mar-2014
Effectivity Date: 30-Apr-2014 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial release.

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 the function, form, fit, or reliability 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 will be performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Qualification Plan Summary.

The change has been verified in simulation and bench testing.

Supporting Documents

Attachment 1: Type: Qualification Plan Summary

ADI_PCN_14_0070_Rev_-_AD9142A_PCN_Qual_Plan.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

Rest of Asia: PCN_ROA@analog.com

Appendix A - Affected ADI Models

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

AD9142A / AD9142ABCPZ

AD9142A / AD9142ABCPZRL

Appendix B - Revision History

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	26-Mar-2014	30-Apr-2014	Initial release.

Analog Devices, Inc.

DocId:2814 Parent DocId:None Layout Rev:7