



## Product/Process Change Notice - PCN 10\_0215 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:** AD5668 AD5648 AD5628 redesign  
**Publication Date:** 21-Dec-2010  
**Effectivity Date:** 21-Mar-2011 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

AD5668, AD5648 and AD5628 all-layer redesign resulting in the following changes:

Die size change

FROM: 2745um X 3555um

TO: 2645um X 2645um

Change in AD5668, AD5648 and AD5628 specifications as follows:

Zero-Code Error

From: 1mV (typ) and 9mV (max)

To: 6mV (typ) and 19mV (max)

Offset Error

From: +/-1mV (typ) and +/-9mV (max)

To: +/-6mV (typ) and +/-19mV (max)

Change in AD5628 A-Grade specification as follows:

Relative Accuracy

From: +/-2LSB (max)

To: +/-4LSB (max)

### Reason For Change

All-layer redesign to reduce die-size in order to fit in 4x4 16-LFCSP and to improve manufacturability.

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

With the exception of the above changes, there will be no impact on fit, form, function and reliability of the AD5668/48/28.

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

Estimated changeover in April 2011.

All products branded with a date-code of 1112 or later will have the new revision of silicon

### Summary of Supporting Information

Qualification has been performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Reliability Report. The above specification changes will be reflected in RevE of the AD5668/48/28 datasheet.

### Comments

Samples will be available from February 2011 and will be provided on request.

## Supporting Documents

Attachment 1: Type: Reliability Report

ADI\_PCN\_10\_0215\_Rev\_-\_RQR05732A.pdf

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

<b>Americas:</b> PCN_Americas@analog.com	<b>Europe:</b> PCN_Europe@analog.com	<b>Japan:</b> PCN_Japan@analog.com
		<b>Rest of Asia:</b> PCN_ROA@analog.com

### Appendix A - Affected ADI Models

#### Added Parts On This Revision - Product Family / Model Number (22)

AD5628 / AD5628ARUZ-2	AD5628 / AD5628ARUZ-2REEL7	AD5628 / AD5628BRUZ-1	AD5628 / AD5628BRUZ-1REEL7	AD5628 / AD5628BRUZ-2	AD5628 / AD5628BRUZ-2REEL7
AD5648 / AD5648ARUZ-2	AD5648 / AD5648ARUZ-2REEL7	AD5648 / AD5648BRUZ-1	AD5648 / AD5648BRUZ-1REEL7	AD5648 / AD5648BRUZ-2	AD5648 / AD5648BRUZ-2REEL7
AD5668 / AD5668ARUZ-2	AD5668 / AD5668ARUZ-2REEL7	AD5668 / AD5668ARUZ-3	AD5668 / AD5668ARUZ-3REEL7	AD5668 / AD5668BRUZ-1	AD5668 / AD5668BRUZ-1REEL7
AD5668 / AD5668BRUZ-2	AD5668 / AD5668BRUZ-2REEL7	AD5668 / AD5668BRUZ-3	AD5668 / AD5668BRUZ-3REEL7		

### Appendix B - Revision History

Rev	Publish Date	Rev Description
Rev. -	21-Dec-2010	Initial Release

Analog Devices, Inc.

DocId:1236 Parent DocId:None Layout Rev:4