



## Product/Process Change Notice - PCN 12\_0208 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 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:** ADR0x and REF0x Die Revision

**Publication Date:** 11-Oct-2012

**Effectivity Date:** 09-Jan-2013 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

The layout of three resistors were modified to optimize the temp drift performance of the ADR01/02/03/06 and REF01/02/03. One bond pad was enlarged to improve the manufacturability. Only the resistor and metal mask layers were changed. No changes were made to the design schematic of the device.

### Reason For Change

As part of ADI's ongoing Continuous Improvement Program, ADI is implementing the change to improve the manufacturability of the ADR01/02/03/06 and REF01/02/03, which will result in more predictable delivery to our customers.

The layout change offers the advantage of improved temperature drift.

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

This change will have no impact on the electrical performance, form, fit, or function of the device.

### Summary of Supporting Information

Qualification has been performed per AEC-Q100, Stress Test Qualification for Integrated Circuits. See attached Qualification Report Summary.

Full wafer level test and final package test Cpk analysis was performed and all parameters were the same or better than current production material.

### Supporting Documents

**Attachment 1: Type:** Qualification Report Summary

ADI\_PCN\_12\_0208\_Rev\_-\_ADR02\_QUALIFICATION\_RESULTS.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 (83)**

ADR01 / ADR01AKSZ-REEL7	ADR01 / ADR01ARZ	ADR01 / ADR01ARZ-REEL7	ADR01 / ADR01AUJZ-REEL7	ADR01 / ADR01BKSZ-REEL7
ADR01 / ADR01BRZ	ADR01 / ADR01BRZ-REEL7	ADR01 / ADR01BUJZ-REEL7	ADR01 / ADR01CRZ	ADR01 / ADR01CRZ-REEL
ADR01 / ADR01TUJZ-EP-R7	ADR01 / ADR01WARZ-R7	ADR01 / ADR01WARZ-RL	ADR02 / ADR02AKSZ-REEL7	ADR02 / ADR02AR
ADR02 / ADR02AR-REEL	ADR02 / ADR02AR-REEL7	ADR02 / ADR02ARZ	ADR02 / ADR02ARZ-REEL	ADR02 / ADR02ARZ-REEL7
ADR02 / ADR02AUJZ-REEL7	ADR02 / ADR02BKSZ-REEL7	ADR02 / ADR02BRZ	ADR02 / ADR02BRZ-REEL7	ADR02 / ADR02BUJZ-R2
ADR02 / ADR02BUJZ-REEL7	ADR02 / ADR02CRZ	ADR02 / ADR02CRZ-REEL	ADR02 / ADR02WARZ-REEL	ADR02 / ADR02WARZ-REEL7
ADR03 / ADR03AKSZ-REEL7	ADR03 / ADR03AR-REEL7	ADR03 / ADR03ARZ	ADR03 / ADR03ARZ-REEL7	ADR03 / ADR03AUJZ-REEL7
ADR03 / ADR03BKSZ-REEL7	ADR03 / ADR03BR	ADR03 / ADR03BRZ	ADR03 / ADR03BRZ-REEL7	ADR03 / ADR03BUJZ-REEL7
ADR03 / ADR03CRZ	ADR03 / ADR03CRZ-REEL	ADR03 / ADR03WARZ-R7	ADR03 / ADR03WARZ-RL	ADR06 / ADR06AKSZ-REEL7
ADR06 / ADR06ARZ	ADR06 / ADR06ARZ-REEL7	ADR06 / ADR06AUJZ-REEL7	ADR06 / ADR06BKSZ-REEL7	ADR06 / ADR06BRZ
ADR06 / ADR06BRZ-REEL7	ADR06 / ADR06BUJZ-REEL7	ADR06 / ADR06WARZ-R7	ADR06 / ADR06WARZ-RL	REF01 / REF01CJ
REF01 / REF01CPZ	REF01 / REF01CS	REF01 / REF01CS-REEL	REF01 / REF01CS-REEL7	REF01 / REF01CSZ
REF01 / REF01CSZ-REEL	REF01 / REF01CSZ-REEL7	REF01 / REF01EZ	REF01 / REF01HPZ	REF01 / REF01HZ
REF02 / REF02AZ	REF02 / REF02CP	REF02 / REF02CPZ	REF02 / REF02CS	REF02 / REF02CS-REEL
REF02 / REF02CS-REEL7	REF02 / REF02CSZ	REF02 / REF02CSZ-REEL	REF02 / REF02CSZ-REEL7	REF02 / REF02EZ
REF02 / REF02HPZ	REF02 / REF02HSZ	REF02 / REF02HZ	REF02 / REF02Z	REF03 / REF03GPZ
REF03 / REF03GSZ	REF03 / REF03GSZ-REEL	REF03 / REF03GSZ-REEL7		

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	11-Oct-2012	09-Jan-2013	Initial Release

Analog Devices, Inc.

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