



## Product/Process Change Notice - PCN 10\_0302 Rev. C

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.

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

**PCN Title:** AD5235 and ADN2850 Redesign and Fab Process Change  
**Publication Date:** 22-Jun-2011  
**Effectivity Date:** 22-Jun-2011 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Include Final AD5235/ADN2850 Date-codes

### Description Of Change

Wafer fabrication change from the 6" 0.5um process at Taiwan Semiconductor Manufacturing Company (TSMC), to the 8" 0.18um process at the same location, involving an all-layer change/redesign.

December 2010:

Change in Idd spec as follows:

From: 3.5uA (typ) 6uA (max) in all cases

To: 3.5 uA (typ) 6uA (max) at VIH = VDD, VIL = GND

0.2 mA (typ) 1mA (max) if RDY and/or SDO floating

Change in Iss spec as follows:

From: -6uA (min) -3.5uA (typ) in all cases

To: -6uA (min) -3.5uA (typ) at VIH = VDD, VIL = GND and VDD = +2.5 V, VSS = -2.5 V

-1mA (min) -0.2mA (typ) if RDY and/or SDO floating

### Reason For Change

Specification change due to wafer fab process change.

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

With the exception of above Idd and Iss changes there will be no impact on fit, form, function & reliability of the AD5235 or ADN2850.

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

Shipment of the new die commenced in April 2011 with changeover date-codes as follows:

AD5235BRUJ250: date-code 1045 or later

AD5235BRUJ25: date-code 1108 or later

AD5235BRUJ25-EP: date-code 1045 or later

ADN2850BCPJ250: date-code 1045 or later

ADN2850BRUJ25: date-code 1114 or later (with the exception of date-code 1045)

ADN2850BCPJ25: date-code 1114 or later (with the exception of date-code 1045)

### Summary of Supporting Information

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

### Supporting Documents

**Attachment 1:** Type:

**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**

**Existing Parts - Product Family / Model Number (20)**

AD5235 / AD5235BRU25	AD5235 / AD5235BRU25-EP-RL7	AD5235 / AD5235BRU25-RL7	AD5235 / AD5235BRU250	AD5235 / AD5235BRUZ25
AD5235 / AD5235BRUZ25-RL7	AD5235 / AD5235BRUZ250	AD5235 / AD5235BRUZ250-R7	ADN2850 / ADN2850BCP25	ADN2850 / ADN2850BCP25-RL7
ADN2850 / ADN2850BCP250	ADN2850 / ADN2850BCP250-RL7	ADN2850 / ADN2850BCPZ25	ADN2850 / ADN2850BCPZ25-RL7	ADN2850 / ADN2850BCPZ250
ADN2850 / ADN2850BCPZ250-RL7	ADN2850 / ADN2850BRU25	ADN2850 / ADN2850BRU25-RL7	ADN2850 / ADN2850BRUZ25	ADN2850 / ADN2850BRUZ25-RL7

**Appendix B - Revision History**

Rev	Publish Date	Rev Description
Rev. -	20-Oct-2010	Initial Release
Rev. A	14-Dec-2010	Revision of original PCN to include a change in the Idd and Iss specifications.
Rev. B	28-Feb-2011	Revision of PCN to include changeover date-codes
Rev. C	22-Jun-2011	Include Final AD5235/ADN2850 Date-codes

Analog Devices, Inc.

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