



## Product/Process Change Notice - PCN 11\_0229 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:** AD7938/AD7938-6 Datasheet Specification Change  
**Publication Date:** 30-Sep-2011  
**Effectivity Date:** 29-Dec-2011 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

The AD7938/AD7938-6 Dynamic Performance specifications and DC specifications are to be changed as follows:

#### Dynamic Performance

SINAD DE (Differential mode) from 70 dB min to 69 dB min  
SINAD SE (Single-ended mode) from 68 dB min to 67 dB min  
THD SE from -70 dB max to -69.5 dB max  
SFDR SE & DE from -73 dB max to -72 dB max

#### DC Accuracy

Offset Error from +/- 6 LSB max to +/- 12 LSB max  
Offset Error Matching from +/- 1 LSB max to +/- 3 LSB max  
Gain Error Matching from +/- 1 LSB max to +/- 2 LSB max  
Zero Code Error from +/- 6 LSB max to +/- 9.5 LSB max  
Zero Code Error Matching from +/- 1 LSB max to +/- 1 LSB typical  
Positive and Negative Gain Error Matching (Fully Differential Input) from +/- 1 LSB max to +/- 1.5 LSB typical

### Reason For Change

The AD7938 and AD7938-6 datasheets are being updated to improve manufacturability.

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

The specification changes described above will not have any impact on the quality or reliability of the device.

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

The changed AD7938 and AD7938-6 material will be effective from date codes 1150 onwards.

### Summary of Supporting Information

These changes are reflected in Rev. C of the AD7938 and in Rev. B of the AD7938-6 datasheets.

### Comments

**Supporting Documents** None

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 (8)**

AD7938 / AD7938BCPZ	AD7938 / AD7938BCPZ-REEL7	AD7938 / AD7938BSUZ	AD7938 / AD7938BSUZ-REEL7
AD7938-6 / AD7938BCPZ-6	AD7938-6 / AD7938BCPZ-6REEL7	AD7938-6 / AD7938BSUZ-6	AD7938-6 / AD7938BSUZ-6REEL7

**Appendix B - Revision History**

Rev	Publish Date	Rev Description
Rev. -	30-Sep-2011	Initial Release

Analog Devices, Inc.

DocId:1684 Parent DocId:None Layout Rev:6