



# Product/Process Change Notice - PCN 12\_0092 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:** Transfer ADXL345 sensor wafer fabrication to the TSMC 8" MEMS only process.

**Publication Date:** 15-May-2012

**Effectivity Date:** 13-Aug-2012 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

ADI has developed and qualified an 8" version of its MEMS only process at TSMC's fab 3. This new process has multiple process differences from the current 6" process. The process differences were required either to facilitate equipment capabilities in fab 3 or to enable more advanced MEMS processing technologies. Wherever possible, process techniques were copy same. There are changes to the die layout to facilitate the process differences, but the sensor structure is not changing.

### Reason For Change

The primary reason for this change is to increase ADI's MEMS capacity, so that we may better respond to customer demand as needed. In addition, the MEMS only sensor process benefits from more advanced MEMS process techniques and more modern fab equipment available in fab 3. Quality and reliability levels, electrical performance, and package dimensions will not be affected by these changes. All 8" fab 3 product will have comparable or improved manufacturing process capabilities.

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

This change will not affect the form, fit or function of the devices.

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

The parts that will be processed in the second ADI-qualified fab site for the MEMS only process will be identified through their unique lot numbers.

### 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:** Qualification Report Summary

ADI\_PCN\_12\_0092\_Rev\_-\_Qualification Report Summary.doc

**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 (3)

ADXL345 / ADXL345BCCZ	ADXL345 / ADXL345BCCZ-RL	ADXL345 / ADXL345BCCZ-RL7		
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**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Rev Description</b>
Rev. -	15-May-2012	Initial Release

Analog Devices, Inc.

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