



## Product/Process Change Notice - PCN 10\_0037 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:** Minor metal mask revision on XL335 ASIC  
**Publication Date:** 22-Mar-2010  
**Effectivity Date:** 20-Jun-2010 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

Two minor issues with test modes are fixed. The datasheet does not change.

1. An inverter input was connected to Zout for a test mode, but by being present at all times caused extra supply current dependent on Zout. The inverter was removed and the digital multiplexer was rewired as an analog multiplexer. The test mode functions the same, but the supply current is now lower and not a function of Zout.
2. An internal signal was switched onto Xout in test mode. The buffer caused a small load on Xout that limited swing near ground by ~50mV. The test mode was rewired to switch it off completely during normal operation.

### Reason For Change

The change prevents Z cross axis when the power supply is decoupled with a series RC and R is >100ohms.  
Ensure consistent and maximum output swing on Xout.

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

Customers using large resistance in series with Vs will see less cross axis and supply current that is constant with Z orientation. X swing will be slightly improved. There is no negative impact on fit, form, or function or reliability.

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

Date code 1026

### Summary of Supporting Information

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

### Supporting Documents

**Attachment 1: Type:** Reliability Report

ADI\_PCN\_10\_0037\_Rev\_-\_Qual for XL335 PCN Mar 2010 .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 (8)**

ADXL335 / ADXL335BCPZ	ADXL335 / ADXL335BCPZ-KL	ADXL335 / ADXL335BCPZ-RL	ADXL335 / ADXL335BCPZ-RL7	ADXL335 / ADXL335CCPZ	ADXL335 / ADXL335CCPZ-RL
ADXL335 / ADXL335CCPZ-RL7	ADXL335 / ADXL335XCPZ-RL				

**Appendix B - Revision History**

Rev	Publish Date	Rev Description
Rev. -	22-Mar-2010	Initial Release

Analog Devices, Inc.

DocId:1014 Parent DocId:None Layout Rev:3