



Product/Process Change Notice - PCN 14_0055 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: Increase Cap Cavity to 175 μ m and Increase TiW Barrier to 2000 Å for GC800A.

Publication Date: 14-Mar-2014

Effectivity Date: 12-Jun-2014 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

Description Of Change

Change the TiW thickness on the metal interconnect stack from 1250 Å to 2000 Å and increase the cavity etch depth from 85 μ m to 175 μ m.

Reason For Change

The barrier thickness increase is to provide additional resistance to sensitivity shifts on the GC800A during assembly.
The cavity etch depth increase to reduce defectivity and standardize with other iMEMS gyros.

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

The cavity etch depth change will change the cross section of the part as the cap cavity is increasing in height. It may result in lower occurrence of metal damage from the capping process.
The barrier thickness change will change the cross section of the part as well.

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

Both changes shall be traceable via our standard control plan.

Summary of Supporting Information

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

Supporting Documents

Attachment 1: Type: Qualification Report Summary

ADI_PCN_14_0055_Rev_-_Q10191 Qual Summary.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 (14)**

ADXRS450 / ADXRS450BEYZ	ADXRS450 / ADXRS450BEYZ-RL	ADXRS450 / ADXRS450BRGZ	ADXRS450 / ADXRS450BRGZ-RL	ADXRS453 / ADXRS453BEYZ
ADXRS453 / ADXRS453BEYZ-RL	ADXRS453 / ADXRS453BRGZ	ADXRS453 / ADXRS453BRGZ-RL	ADXRS800 / ADXRS800WBEYZ	ADXRS800 / ADXRS800WBEYZ-RL
ADXRS800 / ADXRS800WBRGZ	ADXRS800 / ADXRS800WBRGZ-RL	ADXRS810 / ADXRS810WBRGZ-RL	ADXRS810 / ADXRS810WXRGZ-RL	

Appendix B - Revision History

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	14-Mar-2014	12-Jun-2014	Initial Release

Analog Devices, Inc.

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