



Product/Process Change Notice - PCN 08_0023 Rev. D

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: iMEMS Fab Process Transfer

Publication Date: 30-Nov-2009

Samples Available Date:

Effectivity Date: 02-Nov-2009 *(the earliest date that a customer could expect to receive changed material)*

Description Of Change

Cambridge Fab Closure

ADI has decided to close the 6" Cambridge, MA USA wafer fab by end of October 2009. This decision affects the wafer fabrication process location of iMEMS product. The fabrication process will be transferred to ADI's internal wafer fabrication site at Wilmington, MA USA. Wilmington is currently used as an additional qualified location to fabricate the BiMOS portion of iMEMS family of products and was the original site where the MEMS process was developed.

P-Base Resistor Type Change

A minor change will also be made to the ADXL78, ADXL193 and ADXL278 family of accelerometers which involves replacing a single instance of a P+ diffused resistor with a thin film resistor of the same value.

Reason For Change

Cambridge Fab Closure

ADI wafer fabs share many of the same process tools, equipment, and associated unit process steps. This standardization has facilitated process transfers between different internal ADI wafer fabs in past years, allowing ADI to proactively manage manufacturing assets, technology development, and continuous improvement initiatives. For these reasons, ADI is consolidating front-end manufacturing operations. Products transferring to Wilmington will incorporate the qualified and proven enhancements detailed above to provide standardized manufacturing flows.

P-Base Resistor Type Change

This change is being implemented to prevent a potential process/product interaction associated with the p+ base resistor design. Similar thin film resistors are used extensively on this device. This change being made is consistent with our commitment to achieving Zero Defects on the ADXL78, ADXL193 and ADXL278 family of accelerometers.

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

This change will not affect the form, fit, function or datasheet specifications of the devices. Quality and reliability levels, electrical performance, and package dimensions will not be affected by these changes. All transferred product will have comparable or improved manufacturing process capabilities.

Summary of Supporting Information

Qualification has been performed per Analog Devices specification ADI-0012, Procedure for qualification for New or Revised Processes or Products. The Qualification reports are attached to this PCN.

Supporting Documents

Attachment 1: ADI_PCN_08_0023_Rev_D_iMEMS New Finished Goods Part Numbers.xlsx

Attachment 2: ADI_PCN_08_0023_Rev_D_7320 iMEMS1 Qual Report.pdf

Attachment 3: ADI_PCN_08_0023_Rev_D_7410 iMEMS2 Qual Report .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					
Existing Parts - Product Family / Model Number (36)					
ADXL103 / AD22303	ADXL103 / ADW22035Z	ADXL103 / ADW22035Z-RL	ADXL103 / ADW22035Z-RL7	ADXL103 / ADXL103CE	ADXL103 / ADXL103CE-REEL
ADXL193 / AD22282-A	ADXL193 / AD22282-A-R2	ADXL193 / AD22283-B	ADXL193 / AD22283-B-R2	ADXL203 / AD22293	ADXL203 / AD22298
ADXL203 / AD22306Z	ADXL203 / AD22306Z-RL	ADXL203 / ADW22037Z	ADXL203 / ADW22037Z-RL	ADXL203 / ADW22037Z-RL7	ADXL203 / ADW22329Z-RL
ADXL203 / ADXL203CE	ADXL203 / ADXL203CE-REEL	ADXL204 / ADXL204CE	ADXL204 / ADXL204CE-REEL	ADXL213 / ADXL213AE	ADXL213 / ADXL213AE-REEL
ADXL278 / AD22284-A	ADXL278 / AD22284-A-R2	ADXL278 / AD22285	ADXL278 / AD22285-R2	ADXL278 / AD22286	ADXL278 / AD22286-R2
ADXL78 / AD22279-A	ADXL78 / AD22279-A-R2	ADXL78 / AD22280	ADXL78 / AD22280-R2	ADXL78 / AD22281	ADXL78 / AD22281-R2

Removed Parts On All Revisions - Product Family / Model Number (63)					
ADXL202 / AD22263D	ADXL202 / AD22263M	ADXL202 / AD22287	ADXL202 / AD22287A	ADXL202 / ADXL202AE	ADXL202 / ADXL202AE-REEL
ADXL202 / ADXL202AQC-1	ADXL202 / ADXL202AQC-1-REEL	ADXL202 / ADXL202EB	ADXL202 / ADXL202EB-232	ADXL202 / ADXL202EX	ADXL202 / ADXL202JE
ADXL202 / ADXL202JE-REEL	ADXL202 / ADXL202JQC-1-REEL	ADXL202 / ADXL202JQC-REEL	ADXL203 / AD22033Z-RL	ADXL203 / AD22034Z-RL	ADXL203 / AD22293X
ADXL203 / ADXL203EB	ADXL203 / ADXL253EX	ADXL204 / ADXL204EB	ADXL210 / AD22288	ADXL210 / ADXL210EB	ADXL210 / ADXL210JE
ADXL210 / ADXL210JE-REEL	ADXL213 / ADXL213EB	ADXL278 / AD222884-A-R2	ADXL278 / AD22302	ADXL320 / ADXL320EB	ADXL320 / ADXL320JCP
ADXL320 / ADXL320JCP-REEL	ADXL320 / ADXL320JCP-REEL7	ADXL321 / ADXL321EB	ADXL321 / ADXL321JCP	ADXL321 / ADXL321JCP-REEL	ADXL321 / ADXL321JCP-REEL7
ADXL322 / ADXL322EB	ADXL322 / ADXL322JCP	ADXL322 / ADXL322JCP-REEL	ADXL322 / ADXL322JCP-REEL7	ADXL323 / ADXL323KCPZ	ADXL323 / ADXL323KCPZ-RL
ADXL323 / ADXL323KCPZ-RL7	ADXL323 / EVAL-ADXL323Z	ADXL330 / ADXL330KCPZ	ADXL330 / ADXL330KCPZ-RL	ADXL330 / ADXL330KCPZ-RL7	ADXL330 / EVAL-ADXL330Z
ADXL340 / AD22340X	ADXL340 / AD22340Z	ADXL340 / AD22340Z-RL	ADXL340 / AD22340Z-RL7	ADXL340 / AD22341Z	ADXL340 / AD22341Z-RL
ADXL340 / AD22341Z-RL7	ADXL340 / ADXL340DC	ADXL340 / ADXL340KCPZ	ADXL340 / ADXL340KCPZ-RL	ADXL340 / ADXL340KCPZ-RL7	ADXL340 / ADXL340X
ADXL340 / EVAL-ADXL340X	ADXL78 / AD22300	ADXL78 / AD22301			

Appendix B - Revision History		
Rev	Publish Date	Rev Description
Rev. -	12-May-2008	Initial Release
Rev. A	13-Jan-2009	Revised to add P-Base resistor type change on XL78 family devices
Rev. B	16-Mar-2009	1)Revising effectivity date from April 2010 to Nov 2009. 2)Removing the following families of consumer parts: ADXL320, ADXL321, ADXL322, ADXL323, ADXL330, ADXL340. These parts will be added to PCN 09_0031. 3) Removing the following families of parts: ADXL202, ADXL210.
Rev. C	30-Oct-2009	Add New Finished Goods Part list and Qualification reports. Add and remove parts
Rev. D	30-Nov-2009	Updated the new finished goods models list and qualification reports. Removed parts.

Analog Devices, Inc.

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