



Product/Process Change Notice - PCN 06_0083 Rev. C

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 receiving this notification. The information contained within this PCN is considered proprietary and should not be shared outside of your company. ADI contact information is listed below.

Note: Revised fields are indicated by a red field name. See Appendix B for revision history.

PCN Title: ADI Silicon Valley Second-Generation High Voltage Bipolar Process (HVBP2) Fab/Trim/Probe Transfer.

Publication Date: 27-May-2009

Samples Available Date:

Effectivity Date: 24-Aug-2009 (the earliest date that a customer could expect to receive changed material)

Description Of Change

ADI sent customers an advance PCN (#05_0126 dated December 23, 2005) outlining plans to transfer processes from ADI's Silicon Valley, California Fab/Trim/Probe facilities to other internal ADI facilities. This PCN (#06_0083), specifically addresses plans to transfer the HVBP2 process to ADI's Limerick, Ireland facility.

Changes in process materials and sequence have been made so that the updated HVBP2/iPolar process is compatible with established processes in the Limerick 8-inch wafer fab. These have been accomplished by using modules from qualified and released BiCMOS processes in Limerick. Major changes from the process integration include wafer size (6-inch to 8-inch), buried layer doping (arsenic to antimony), polysilicon for capacitors and resistors (to higher sheet resistance), metallization (metal 1: TiW + AlCu to TiN + AlSiCu, metal 2: AlCu to Ti + AlSiCu) and passivation (oxide + oxynitride to oxide + nitride).

May 2009: Add ADR821 and ADR817 generics to the transfer list.

Reason For Change

As detailed in PCN 05_0126, ADI is consolidating front-end manufacturing operations.

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

Quality and reliability levels, electrical performance and package dimensions are not expected to change. All transferred product will have comparable or improved manufacturing capabilities.

Summary of Supporting Information

1. The Limerick facility is certified to all major quality, environmental, health and safety systems (including ISO9001:2000, ISO14001:2004, OHSAS18001:1999 and MIL-PRF-38535).
2. The HVBP2 process qualification report # 5998 is provided with this PCN.

Supporting Documents

Attachment 1: ADI_PCN_06_0083_Rev_C_RQR03917B.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 (60)

AD8599 / AD8599ARZ	AD8599 / AD8599ARZ-REEL	AD8599 / AD8599ARZ-REEL7	AD8675 / AD8675ARMZ-R2	AD8675 / AD8675ARMZ-REEL	AD8675 / AD8675ARZ
AD8675 / AD8675ARZ-REEL	AD8675 / AD8675ARZ-REEL7	AD8676 / AD8676ARMZ-R2	AD8676 / AD8676ARMZ-REEL	AD8676 / AD8676ARZ	AD8676 / AD8676ARZ-REEL
AD8676 / AD8676ARZ-REEL7	AD8676 / AD8676BRMZ-R2	AD8676 / AD8676BRMZ-REEL	AD8676 / AD8676BRZ	AD8676 / AD8676BRZ-REEL	AD8677 / AD8677ARZ
AD8677 / AD8677ARZ-REEL	AD8677 / AD8677ARZ-REEL7	AD8677 / AD8677AUJZ-R2	AD8677 / AD8677AUJZ-REEL	AD8677 / AD8677AUJZ-REEL7	ADA4000-1 / ADA4000-1ARZ
ADA4000-1 / ADA4000-1ARZ-R7	ADA4000-1 / ADA4000-1ARZ-RL	ADA4004-4 / ADA4004-4ACPZ-R2	ADA4004-4 / ADA4004-4ACPZ-R7	ADA4004-4 / ADA4004-4ARZ	ADA4004-4 / ADA4004-4ARZ-R7
ADA4004-4 / ADA4004-4ARZ-RL	ADR121 / ADR121AUJZ-R2	ADR121 / ADR121AUJZ-REEL7	ADR121 / ADR121BUJZ-REEL7	ADR125 / ADR125AUJZ-R2	ADR125 / ADR125AUJZ-REEL7
ADR125 / ADR125BUJZ-REEL7	ADR127 / ADR127AUJZ-R2	ADR127 / ADR127AUJZ-REEL7	ADR127 / ADR127BUJZ-REEL7	ADR130 / ADR130AUJZ-R2	ADR130 / ADR130AUJZ-REEL7
ADR130 / ADR130BUJZ-R2	ADR130 / ADR130BUJZ-REEL7	ADR821 / ADR821ARMZ-R2	ADR821 / ADR821ARMZ-REEL7	ADR821 / ADR821BRMZ-R2	ADR821 / ADR821BRMZ-REEL7
ADR827 / ADR827ARMZ-R2	ADR827 / ADR827ARMZ-REEL7	ADR827 / ADR827BRMZ-R2	ADR827 / ADR827BRMZ-REEL7	OP07D / OP07DN	OP07D / OP07DNZ
OP07D / OP07DR	OP07D / OP07DR-REEL	OP07D / OP07DR-REEL7	OP07D / OP07DRZ	OP07D / OP07DRZ-REEL	OP07D / OP07DRZ-REEL7

Added Parts On This Revision - Product Family / Model Number (8)

ADR821 / ADR821ARMZ-R2	ADR821 / ADR821ARMZ-REEL7	ADR821 / ADR821BRMZ-R2	ADR821 / ADR821BRMZ-REEL7	ADR827 / ADR827ARMZ-R2	ADR827 / ADR827ARMZ-REEL7
ADR827 / ADR827BRMZ-R2	ADR827 / ADR827BRMZ-REEL7				

Appendix B - Revision History

Rev	Publish Date	Rev Description
Rev. -	19-Dec-2007	Initial Release
Rev. A	07-Feb-2007	Updated Feb. 2007: 1) Add ADR121/5/7 generics to the transfer list. 2) Effectivity date has changed from Dec. 06 to May. 07.
Rev. B	19-Dec-2007	Updated Dec. 07 to add AD8599, AD8676, ADRA4000-1, ADR130 to the transfer list.
Rev. C	27-May-2009	Add ADR821 and ADR827 to the transfer list.

Analog Devices, Inc.

DocId:746 Parent DocId:None