



Product/Process Change Notice - PCN 10_0010 Rev. B

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: AD9122 Die Revision

Publication Date: 13-Sep-2010

Effectivity Date: 12-Apr-2010 (the earliest date that a customer could expect to receive changed material)

Revision Description:

Completed qualification report added
In Attachment 2, removal of an error in the date code for R2 change over.

Description Of Change

All level mask change was made that included minor circuit and layout changes.

From

- IOVDD = 1.8 to 2.5V+/-10%
- Version ID: Register 0x7F = 0x04
- DCI Delay Register 0x16, Bits[1:0] = None
- Register 0x0B, Bit 5 = Enable VCO
- Power down power consumption = 9.8mW

To

- IOVDD = 1.8V to 3.3V+/-10%
- Version ID Register 0x7F = 0x0C
- DCI Delay Register 0x16, Bits[1:0] = 4 options, '00'=min delay, '11'=max delay.
- Register 0x0B, Bit 5 = Inactive bit. The VCO is now enabled when the PLL is enabled.
- Power down power consumption = 18.8mW

Details of the changes are described in the attached document.

Reason For Change

To improve DAC AC performance while maintaining all functionality and interface timing

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

The new die revision will have improved AC performance.

Summary of Supporting Information

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

Comments

Supporting Documents

Attachment 1: Type: Reliability Report

ADI_PCN_10_0010_Rev_B_RQR05506A.doc

Attachment 2: Type: Detailed Change Description

ADI_PCN_10_0010_Rev_B_AD9122 PCN letter.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 (2)

AD9122 / AD9122BCPZ

AD9122 / AD9122BCPZRL

Appendix B - Revision History

Rev	Publish Date	Rev Description
Rev. -	12-Jan-2010	Initial Release
Rev. A	09-Feb-2010	Added detailed description of the changes (as an attachment).
Rev. B	13-Sep-2010	Completed qualification report added In Attachment 2, removal of an error in the date code for R2 change over.

Analog Devices, Inc.

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