



Product/Process Change Notice - PCN 10_0261 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: AD9549A mask change
Publication Date: 22-Oct-2010
Effectivity Date: 21-Nov-2010 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

Description Of Change

Increase divider bias current.
Performing metal mask changes to address software-implemented Power On Reset (POR).
Connecting nmos devices using diodes between "op" and "on" to prevent either node from approaching ground, thus preventing the LVT devices from conducting which is the root cause of the intermittent failure in the Fine Phase Frequency Detector.
Connect device in the system clock output stage to pull the complementary output HIGH during power-down.
Update Die ID revision Code.

Reason For Change

We are fixing the divider bias current to improve manufacturability and improve high temperature operation.
Ensure proper operation of the power on and soft resets.
Fixing the Fine Phase Frequency Detector will improve the repeatability of the time required to re-lock when changing to a new reference frequency.
Updated Die ID indicates new revision.
Reduce power consumption in 'full power down' mode.

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

Improves repeatability and speed of re-lock time when switching between two references.
Soft reset will become usable.
The Fine Phase Frequency Detector will work properly across the specified temperature range.
Lower power consumption in full power down.

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

New Material will be Datecode 1044, Die ID Revision Code @ Register 0x0002 updated to 0x82.

Summary of Supporting Information

See attached qual plan summary.

Supporting Documents

Attachment 1: Type: Qualification Plan Summary

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 (2)

AD9549 / AD9549ABCPZ

AD9549 / AD9549ABCPZ-REEL7

Appendix B - Revision History

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

Analog Devices, Inc.

DocId:1294 Parent DocId:None Layout Rev.4