



## Product/Process Change Notice - PCN 12\_0275 Rev. A

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:** AD9523 die revision  
**Publication Date:** 25-Feb-2013  
**Effectivity Date:** 13-Apr-2013 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Adding detail of the spec table changes in the data sheet

### Description Of Change

Change 1: varactors added to VCO  
Change 2: Charge pump was switched to an internally regulated supply (LDO)  
Change 3: VDD3\_PLL1, Supply Current for PLL1 increased from 25 to 43 mA, Max power dissipation in typical configuration changes from 1047 mW to 970 mW, and Max power dissipation in Low power typical configuration increased from 428 mW to 450 mW

### Reason For Change

Change 1: Extend the supported temperature range for the AD9523/24 VCO  
Change 2: Eliminate one power supply requirement for customers  
Change 3: Results from change 2

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

Change 1: Improves performance across temperature  
Change 2: Pin 2 uses more current.  
Change 3: Tables 2 and 3 in data sheet has been updated to reflect new supply current

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

All material with date codes 1303 or later will be new silicon.  
Material with earlier date codes will be original revision EXCEPT for some material with date code 1241. ADI can differentiate datecode 1241 material by lot number upon request.

### Summary of Supporting Information

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

### Supporting Documents

**Attachment 1: Type:** Qualification Report Summary

ADI\_PCN\_12\_0275\_Rev\_A\_AD9523\_Die\_Rev\_A\_QUALIFICATION\_RESULTS\_PCN.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 (3)**

AD9523 / AD9523/PCBZ

AD9523 / AD9523BCPZ

AD9523 / AD9523BCPZ-REEL7

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	18-Jan-2013	11-Apr-2013	Initial Release
Rev. A	25-Feb-2013	13-Apr-2013	Adding detail of the spec table changes in the data sheet

Analog Devices, Inc.

DocId:2269 Parent DocId:None Layout Rev:7