



Product/Process Change Notice - PCN 13_0067 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: AD9524 die change
Publication Date: 23-Apr-2013
Effectivity Date: 22-Jul-2013 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

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 680 mW to 593 mW, and Max power dissipation in Low power typical configuration increased from 428 mW to 450 mW
Change 4: Max skew between LVPECL, HSTL and LVDS Outputs increased from 164ps to 234ps

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
Change 4: Necessary per characterization of new die

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
Change 4: Table 10 in data sheet has been updated to reflect new supply current

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

Material with date code 1243 is covered by this change

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_13_0067_Rev_-_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**Added Parts On This Revision - Product Family / Model Number (4)**

AD9524 / AD9524/PCBZ	AD9524 / AD9524BCPZ	AD9524 / AD9524BCPZ-REEL7	AD9524 / AD9524XCPZ	
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Appendix B - Revision History			
Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	23-Apr-2013	22-Jul-2013	Initial Release

Analog Devices, Inc.

DocId:2340 Parent DocId:2269 Layout Rev:7