# ANALOG Product/Process Change Notice - PCN 12\_0026 Rev. -

ICES 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:	Minor Metal Mask Revision, Datasheet Changes and Test Manufacturing Site Transfer on the AD9558.	
Publication Date:	17-Apr-2012	
Effectivity Date:	16-Jul-2012 (the earliest date that a customer could expect to receive changed material)	

#### **Revision Description:**

Initial Release

#### **Description Of Change**

Change#1:

The range of the system clock VCO has been extended from [765MHz-805MHz] to [750MHz-805MHz]

Change#2:

The default VCO calibration voltage for the output PLL (PLL2) has been increased by about 80mV

The default value for the register 0x0405 has changed. Register 0x0405[5] = 1 binary (Enhances the low temp operation. Already recommended.)

Change#3:

The PLL2 default current and loop filter settings have changed.

- The charge pump current has been changed from 371uA to 451.5uA

The default value for the register 0x0400 has changed from 0x6A to 0x81 (Improves phase noise. Already recommended in the previous DS, now a default condition).

- The loop filter default Cpole has changed from 80pF to 120pF The loop filter default Rzero has changed from 1 KOhm to 1.5 KOhm The default value for the register 0x0403 has changed from 0x12 to 0x07 (Improves phase noise. Already recommended in the previous DS, now a default condition).

Change#4:

The Silicon Revision (Register 0x000A) has changed from 0x20 to 0x21 - Register 0x000A=0x21 (No performance impact.)

Change#5 : Test Manufacturing Site Change: This is notification that ADI is transferring the AD9557 from our test facility in Analog Devices Greensboro, NC to StatsChippac Singapore, our Teradyne UltraFlex qualified site

#### Reason For Change

Change#1 allows a larger range of possible external oscillators.

Change#2 allows an extended VCO range over Temperature

Change#3 and #4 allows to provide an improved jitter performance for the default configuration.

Reason for the change#5:

The transfer to test subcontractor, StatsChippac Singapore will increase tester capacity.

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

The changes described above will not have any impact on the quality or reliability of the device.

Test Manufacturing Site change: there will be no impact on the form, fit, function, quality or reliability of these devices.

Summary of Supporting Information

Analog Devices, Inc. PCN 12\_0026\_Rev\_- Page 1 of 2

### **Supporting Documents**

Attachment 1: Type: Test Correlation Report

ADI\_PCN\_12\_0026\_Rev\_ADI\_PCN 12\_0026\_Rev\_A\_AD9558 Test Product Transfer Qualification.pdf

	For questions on this PCN, se	nd email to the	regional contacts below or co	ntact your local ADI sa	les representative
Americas:	PCN_Americas@analog.com	Europe:	PCN_Europe@analog.com	Japan: Rest of Asia:	PCN_Japan@analog.com PCN_ROA@analog.com

Appendix A - Affected ADI Models				
Added Parts On This Revision - Product Family / Model Number (3)				
AD9558 / AD9558/PCBZ	AD9558 / AD9558BCPZ	AD9558 / AD9558BCPZ-REEL7		

	Appendix B - Revision History		
Rev	Publish Date	Rev Description	
Rev	17-Apr-2012	Initial Release	

Analog Devices, Inc.

Docld:1839 Parent Docld:None Layout Rev.6