



## Product/Process Change Notice - PCN 09\_0109 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 receiving this notification. The information contained within this PCN is considered proprietary and should not be shared outside of your company. ADI contact information is listed below.

**PCN Title:** Change to AD9600, AD9627, AD9627-11, and AD9640 LVDS propagation delay specifications.

**Publication Date:** 10-Jul-2009

**Samples Available Date:**

**Effectivity Date:** 08-Jul-2009 *(the earliest date that a customer could expect to receive changed material)*

### Description Of Change

LVDS output timing change for AD9600, AD9627, AD9627-11, and AD9640 high speed ADCs. Please note, not all of these products are available in every speed grade listed below.

Reduce LVDS propagation delay specifications:

80Msps speed grades:

Data propagation delay (tPD)

Min values changed from 2.0ns to 3.0ns

Typ values changed from 4.8ns to 3.7ns

Max values changed from 6.3ns to 4.4ns

DCO propagation delay (tDCO)

Min values changed from 5.7ns to 5.4ns

Typ values changed from 7.3ns to 7.0ns

Max values changed from 9.0ns to 8.4ns

105Msps speed grades:

Data propagation delay (tPD)

Min values changed from 2.0ns to 3.0ns

Typ values changed from 4.8ns to 3.7ns

Max values changed from 6.3ns to 4.4ns

DCO propagation delay (tDCO)

Min values did not change

Typ values changed from 7.3ns to 6.4ns

Max values changed from 9.0ns to 7.6ns

125Msps speed grades:

Data propagation delay (tPD)

Min values changed from 2.0ns to 3.0ns

Typ values changed from 4.8ns to 3.8ns

Max values changed from 6.3ns to 4.5ns

DCO propagation delay (tDCO)

Min values changed from 4.0ns to 5.0ns

Typ values changed from 7.3ns to 6.2ns

Max values changed from 9.0 to 7.4ns

150Msps speed grades:

Data propagation delay (tPD)

Min values changed from 2.0ns to 3.0ns

Typ values changed from 4.8ns to 3.8ns

Max values changed from 6.3ns to 4.5ns

DCO propagation delay (tDCO)

Min values changed from 5.2ns to 4.8ns

Typ values changed from 7.3ns to 5.9ns

Max values changed from 9.0ns to 7.3ns

### Reason For Change

To adjust published limits to match actual device performance.

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

Typical propagation delay in LVDS mode has been reduced and the difference between max and min propagation delay has been reduced, no negative change is expected.

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

Datecode 0923

### Summary of Supporting Information

There have been no changes to device form, fit or function. Only the data sheet is being changed to reflect tester validation of parameters.

**Supporting Documents**          None

**For questions on this PCN, send email to the regional contacts below or contact your local ADI sales representative**

<b>Americas:</b>	PCN_Americas@analog.com	<b>Europe:</b>	PCN_Europe@analog.com	<b>Japan:</b>	PCN_Japan@analog.com
				<b>Rest of Asia:</b>	PCN_ROA@analog.com

**Appendix A - Affected ADI Models****Added Parts On This Revision - Product Family / Model Number (20)**

AD9600 / AD9600BCPZ-105	AD9600 / AD9600BCPZ-125	AD9600 / AD9600BCPZ-150	AD9600 / AD9600XCPZ-105	AD9600 / AD9600XCPZ-125	AD9600 / AD9600XCPZ-150
AD9627 / AD9627BCPZ-105	AD9627 / AD9627BCPZ-125	AD9627 / AD9627BCPZ-150	AD9627 / AD9627BCPZ-80	AD9627 / AD9627XCPZ-105	AD9627 / AD9627XCPZ-125
AD9627 / AD9627XCPZ-80	AD9627-11 / AD9627BCPZ11-105	AD9627-11 / AD9627BCPZ11-150	AD9640 / AD9640BCPZ-105	AD9640 / AD9640BCPZ-125	AD9640 / AD9640BCPZ-150
AD9640 / AD9640BCPZ-80	AD9640 / AD9640BCPZRL7-80				

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Rev Description</b>
Rev. -	10-Jul-2009	Initial Release

Analog Devices, Inc.

DocId:751 Parent DocId:None