



## Product/Process Change Notice - PCN 13\_0322 Rev. -

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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:** Mask Change for ADE7953 and Datasheet Update  
**Publication Date:** 27-Jan-2014  
**Effectivity Date:** 27-Apr-2014 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

The circuitry for CF1 and CF2 output pulses has been improved so that it matches line cycle accumulation mode under all conditions.

The datasheet updates are as follows:

- For Input Clock Frequency, the frequency has changed from 3.58 MHz (max) to 3.54 MHz (min) / 3.58 MHz (typ) / 3.62 MHz (max)
- For Data Output Valid After SCLK Edge, tDAV has changed from 80ns (min) to 80ns (max)
- For Data Hold Time, tHD;DAT has changed from 0us (min) to 0.1us (min)

### Reason For Change

The mask change above results in improved performance under no-load conditions.

The datasheet updates are to reflect actual product performance and are not a result of the mask revision.

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

There is no change to the fit or form, and the changes described above will have no negative impact on the quality or reliability of the devices.

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

An internal version register located at address 0x702 can be read by the user and will have a value of 2.

### Summary of Supporting Information

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

The datasheet changes will be reflected in Revision B of the product datasheet.

### Supporting Documents

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

ADI\_PCN\_13\_0322\_Rev\_-\_ADE7953.doc

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 (10)**

ADE7953 / AD71133ACPZ	ADE7953 / AD71133ACPZ-RL	ADE7953 / AD71135ACPZ	ADE7953 / AD71135ACPZ-RL	ADE7953 / ADE7953ACPZ
ADE7953 / ADE7953ACPZ-REF	ADE7953 / ADE7953ACPZ-RL	ADE7953 / SG71133ACPZ	ADE7953 / SG71135ACPZ	ADE7953 / SGE7953ACPZ

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	27-Jan-2014	27-Apr-2014	Initial Release

Analog Devices, Inc.

DocId:2685 Parent DocId:None Layout Rev:7