



Product/Process Change Notice - PCN 13_0117 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: Mask Change for ADE7878, ADE7868, ADE7858 and ADE7854
Publication Date: 01-Jul-2013
Effectivity Date: 29-Sep-2013 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

Description Of Change

A small group of transistor types have been changed from low to standard threshold voltage. Also, a deglitch circuit has been added to the oscillator design.

Reason For Change

New transistor types improve overall temperature performance. New deglitch circuit improves oscillator's immunity to external system noise.

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.

The specifications are unchanged however, the datasheet, (Rev. G), will contain a new graph that shows the improved temperature performance characteristics.

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

An internal version register located at address 0xE707 can be read by the user and will have a value of 8.

Summary of Supporting Information

Qualification will be performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Qualification Plan Summary.

Supporting Documents

Attachment 1: Type: Qualification Plan Summary

ADI_PCN_13_0117_Rev_-_ADE78xx_QP 10681 27Jun2013.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 (11)

| | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|
| ADE7854 / ADE7854ACPZ | ADE7854 / ADE7854ACPZ-RL | ADE7858 / ADE7858ACPZ | ADE7858 / ADE7858ACPZ-RL | ADE7868 / ADE7868ACPZ |
| ADE7868 / ADE7868ACPZ-RL | ADE7878 / AD71129ACPZ | ADE7878 / AD71129ACPZ-RL | ADE7878 / ADE7878ACPZ | ADE7878 / ADE7878ACPZ-REF |
| ADE7878 / ADE7878ACPZ-RL | | | | |

Appendix B - Revision History

| Rev | Publish Date | Effectivity Date | Rev Description |
|------------|---------------------|-------------------------|------------------------|
| Rev. - | 01-Jul-2013 | 29-Sep-2013 | Initial Release |
| | | | |

Analog Devices, Inc.

DocId:2403 Parent DocId:None Layout Rev:7