



Product/Process Change Notice - PCN 21_0097 Rev. A

Analog Devices, Inc. One Analog Way, Wilmington, MA 01887

This notice is to inform you of a change that will be made to certain ADI products (see Appendix A) that you may have purchased in the last 2 years. **Any inquiries or requests with this PCN (additional data or samples) must be sent to ADI within 30 days of publication date.** ADI contact information is listed below.

Note: Revised fields are indicated by a red field name. See Appendix B for revision history.

PCN Title: Package Material Set and Data Sheet Change for AD9988 and AD9082

Publication Date: 02-Jun-2021

Effectivity Date: 02-Jun-2021 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Date Code Update.

Description Of Change:

Data sheet thermal specification changed to reflect assembly material set change:
--Epoxy lid attach and Thermal Interface material (TIM).

Old Simulated Thermal Resistance data sheet specifications:

Theta JA = 11.7 C/W

Theta JC_TOP = 0.40 C/Q

Theta JB = 2.3 C/W

New Simulated Thermal Resistance data sheet specifications:

Theta JA = 14.9 C/W

Theta JC_TOP = 0.70 C/W

Theta JB = 1.8 C/W

Reason For Change:

Align with standard assembly material set for high volume manufacturing robustness.

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

The simulated thermal resistance specifications change, resulting in the device running 2-3C hotter, assuming a complex use case is used. (all JESD204 lanes in operation, DDCs, PFILTER, DUCs, at max data converter sample rate in operation.) There is no impact to form, fit, functional or reliability providing the Tj max specification is not exceeded during operation. The data sheet will reflect the new material set.

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

Devices with date codes of 2113 and later.

Summary of Supporting Information:

Qualification has been performed per Industry Standard Test Methods. See attached Qualification Results Summary. TIM specifications will be reflected in the new Product Data sheet revision. See Product Data Sheets for revision history.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

ADI_PCN_21_0097_Rev_A_Qualification Results Summary.pdf

Attachment 2: Type: Datasheet Specification Comparison

ADI_PCN_21_0097_Rev_A_Data Sheet Comparison.pdf

For questions on this PCN, please send an email to the regional contacts below or contact your local ADI sales representatives.

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

Existing Parts - Product Family / Model Number (6)

AD9082 / AD9082BBPZ-2D2AC	AD9082 / AD9082BBPZ-4D2AC	AD9082 / AD9082BBPZRL-2D2AC	AD9082 / AD9082BBPZRL-4D2AC	AD9988 / AD9988BBPZ-4D4AC
AD9988 / AD9988BBPZRL-4D4AC				

Appendix B - Revision History

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	10-May-2021	10-May-2021	Initial Release.
Rev. A	02-Jun-2021	02-Jun-2021	Date Code Update.

Analog Devices, Inc.

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