



Product/Process Change Notice - PCN 23_0053 Rev. -

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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.

PCN Title:	AD4695/6/7/8 Family Datasheet Specification Update
Publication Date:	21-Apr-2023
Effectivity Date:	21-Apr-2023 <i>(the earliest date that a customer could expect to receive changed material)</i>
Revision Description:	Initial Release

Description Of Change:

Improved DC specifications and increased AVDD range on AD4695, AD4696, AD4697, AD4698

Reason For Change:

Improvement to Datasheet limits to more accurately reflect parts capability

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

No change to fit, form function or reliability.

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

There is no change to the product. Updated Datasheet Rev B will contain changes. See attached datasheet comparison for specification changes.

Summary of Supporting Information:

Qualification not required

Supporting Documents

Attachment 1: Type: Datasheet Specification Comparison

[ADI PCN 23_0053 Rev - AD469X PCN for DC Spec and AVDD Extension.pdf...](#)

Note: If applicable, the device material declaration will be updated due to material change.

ADI Contact Information:

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

Americas:	Europe:	Japan:	Rest of Asia:
PCN_Americas@analog.com	PCN_Europe@analog.com	PCN_Japan@analog.com	PCN_ROA@analog.com

Appendix A - Affected ADI Models:

Added Parts On This Revision - Product Family / Model Number (12)

AD4695 / AD4695BCBZ-RL7	AD4695 / AD4695BCPZ	AD4695 / AD4695BCPZ-RL7	AD4696 / AD4696BCBZ-RL7	AD4696 / AD4696BCPZ
AD4696 / AD4696BCPZ-RL7	AD4697 / AD4697BCBZ-RL7	AD4697 / AD4697BCPZ	AD4697 / AD4697BCPZ-RL7	AD4698 / AD4698BCBZ-RL7
AD4698 / AD4698BCPZ	AD4698 / AD4698BCPZ-RL7			

Appendix B - Revision History:

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	21-Apr-2023	21-Apr-2023	Initial Release

AD469X PCN for DC Spec and AVDD Extension

AD469x Data Sheet Changes

- ▶ AVDD min change from 3.15 V to 2.7 V:
- ▶ Specifications
 - (Table 1)
 - Change min AVDD in Table 1 disclaimer
 - Specify AVDD = 5 V as condition for all AC PERFORMANCE specs
 - Change min AVDD in POWER REQUIREMENTS section
- ▶ Timing Specifications
 - (Table 2)
 - Change min AVDD in Table 2 disclaimer
- ▶ TPC Section:
 - AVDD Current vs. AVDD Voltage → extrapolating supply currents from 3.15V to 2.7V minimum
- ▶ Misc. other sections that mention AVDD min = 3.15V:
 - Pin Configuration section
 - Power Supplies section

DC Specifications Summary

Spec	Previous	Updated	Comments
Offset Error	±430 uV (5.6 LSBs)	±360 uV (4.7 LSBs)	-40°C to +125°C
Offset Drift	None	1.1 uV/°C (0.22 ppm/°C) (14.4 mLSB/°C)	Typical drift spec using box method with -40°C to +125°C temperature range
Gain Error	±0.025 %FS (16.4 LSBs)	±0.0125 %FS (8.2 LSBs)	-40°C to +125°C Reduced by half the original data sheet specs
Gain Drift	None	0.08 ppm/°C (5.2 mLSB/°C)	Typical drift spec using box method with -40°C to +125°C temperature range
Full-Scale Error	None	±11 LSBs	-40°C to +125°C New spec for AD4695 data sheet. Gives the guaranteed total Gain + Offset error for each device.
Full-Scale Error Drift	None	0.25 ppm/°C (16.6 mLSB/°C)	Typical drift spec using box method with -40°C to +125°C temperature range
Input Leakage Current*	10nA	2 nA	Typical spec at +25°C, input voltage = 5V Also adding leakage current TPC plots in slide 5 *In the ANALOG INPUT section

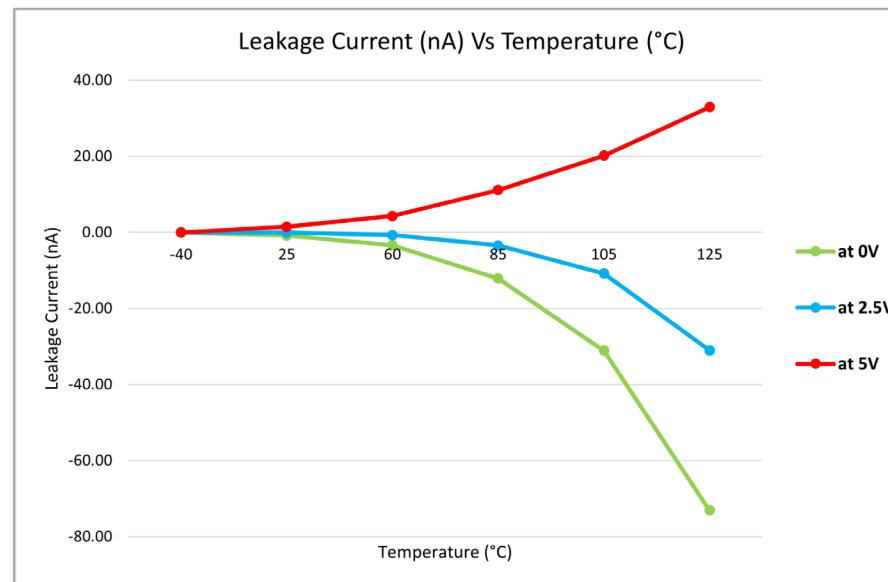
NEW Input Leakage Current TPCs

► Leakage Current vs. Temperature

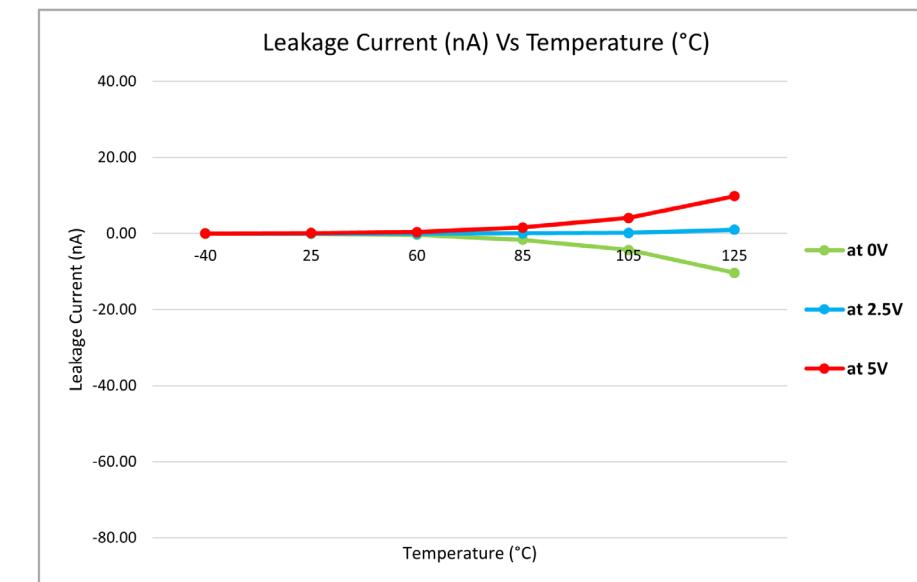
- For input voltages = 0 V, 2.5 V, and 5 V

► Slotting into Figure 63 for convenience

- Would have been better to group with other Analog Input TPCs but would disrupt the document too much...



Channel Selected



Channel Not Selected