



## 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.

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

<b>Americas:</b>	<b>Europe:</b>	<b>Japan:</b>	<b>Rest of Asia:</b>
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	$\pm 430 \text{ uV}$ (5.6 LSBs)	$\pm 360 \text{ uV}$ (4.7 LSBs)	$-40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$
Offset Drift	None	$1.1 \text{ uV}/^{\circ}\text{C}$ (0.22 ppm/ $^{\circ}\text{C}$ ) (14.4 mLSB/ $^{\circ}\text{C}$ )	Typical drift spec using box method with $-40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$ temperature range
Gain Error	$\pm 0.025 \% \text{FS}$ (16.4 LSBs)	$\pm 0.0125 \% \text{FS}$ (8.2 LSBs)	$-40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$  Reduced by half the original data sheet specs
Gain Drift	None	$0.08 \text{ ppm}/^{\circ}\text{C}$ (5.2 mLSB/ $^{\circ}\text{C}$ )	Typical drift spec using box method with $-40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$ temperature range
Full-Scale Error	None	$\pm 11 \text{ LSBs}$	$-40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$  New spec for AD4695 data sheet. Gives the guaranteed total Gain + Offset error for each device.
Full-Scale Error Drift	None	$0.25 \text{ ppm}/^{\circ}\text{C}$ (16.6 mLSB/ $^{\circ}\text{C}$ )	Typical drift spec using box method with $-40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$ temperature range
Input Leakage Current*	10nA	2 nA	Typical spec at $+25^{\circ}\text{C}$ , input voltage = 5V Also adding leakage current TPC plots in slide 5 *In the ANALOG INPUT section

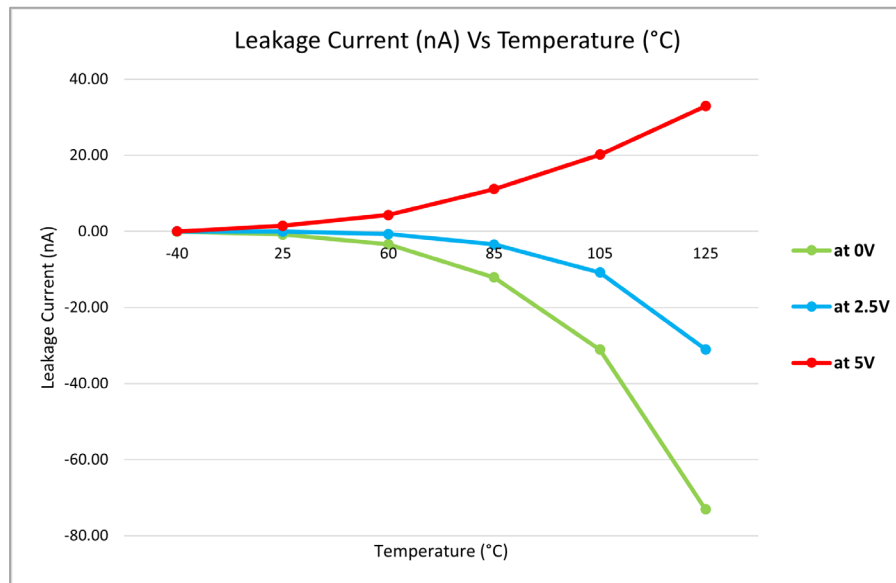
# NEW Input Leakage Current TPCs

## ► Leakage Current vs. Temperature

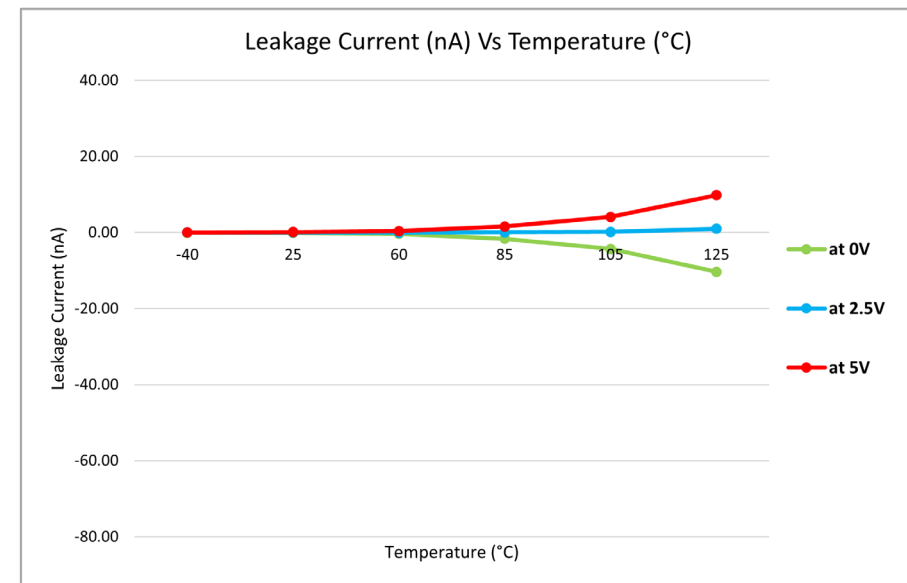
- For input voltages = 0 V, 2.5 V, and 5 V

## ► 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