



## Product/Process Change Notice - PCN 25\_0009 Rev. -

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

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. An acceptance or concern response should be submitted to ADI promptly. Any requests for samples of changed material or additional information must be made within 30 days of the notification. In accordance with JEDEC Standard 046, customers should acknowledge receipt of the PCN within 30 days of the PCN delivery. ADI contact information is listed below. Note: Revised fields are indicated by a red field name. See Appendix B for revision history.

**Lack of acknowledgment of the PCN within 30 days constitutes acceptance of the change. After the acknowledgment, a lack of additional requests within 90 days constitutes acceptance of the change.**

<b>PCN Title:</b>	ADIS1654x IMU Package Internal Dimension and Data Sheet Revision
<b>Publication Date:</b>	03-Dec-2025
<b>Effectivity Date:</b>	31-Dec-2025 <i>(the earliest date that a customer could expect to receive changed material)</i>
<b>Revision Description:</b>	Initial Release.

### Description Of Change:

The interior of the ADIS1654x IMU housing has been redesigned to eliminate the silicone spacers, introduces a hard and stiffer adhesive (Loctite 3563) for securing the PCBs to the housing and reduces the slot width for the vertical boards.

Data Sheet revision:

Changed specification Table 2. For  $\pm 125^\circ/\text{sec}$  (ADIS16545-1BMLZ and ADIS16547-1BMLZ), Page 5

From:

Misalignment Error Axis to Axis  $\pm 0.15$  degrees Typ.

Misalignment Error Axis to Package  $\pm 0.15$  degrees Typ.

To:

Misalignment Error Axis to Axis  $\pm 0.05$  degrees Typ.

Misalignment Error Axis to Package  $\pm 0.25$  degrees Max.

Changed specification Table 3. For  $\pm 450^\circ/\text{sec}$  (ADIS16545-1BMLZ and ADIS16547-1BMLZ), Page 6

From:

Misalignment Error Axis to Axis  $\pm 0.15$  degrees Typ.

Misalignment Error Axis to Package  $\pm 0.15$  degrees Typ.

To:

Misalignment Error Axis to Axis  $\pm 0.05$  degrees Typ.

Misalignment Error Axis to Package  $\pm 0.25$  degrees Max.

Changed specification Table 5. For  $\pm 2000^\circ/\text{sec}$  (ADIS16545-1BMLZ and ADIS16547-1BMLZ), Page 6

From:

Misalignment Error Axis to Axis  $\pm 0.15$  degrees Typ.

Misalignment Error Axis to Package  $\pm 0.15$  degrees Typ.

To:

Misalignment Error Axis to Axis  $\pm 0.05$  degrees Typ.

Misalignment Error Axis to Package  $\pm 0.25$  degrees Max.

Changed specification Table 5. For  $\pm 8$  g (ADIS16545), Page 7

From:

Misalignment Error Axis to Axis  $\pm 0.15$  degrees Typ.

Misalignment Error Axis to Package  $\pm 0.15$  degrees Typ.

To:

Misalignment Error Axis to Axis  $\pm 0.05$  degrees Typ.

Misalignment Error Axis to Package  $\pm 0.25$  degrees Max.

Changed specification Table 6. For  $\pm 40$  g (ADIS16547) Page 8

From:  
Misalignment Error Axis to Axis  $\pm 0.025$  degrees Typ.  
Misalignment Error Axis to Package  $\pm 0.15$  degrees Typ.  
To:  
Misalignment Error Axis to Axis  $\pm 0.05$  degrees Typ.  
Misalignment Error Axis to Package  $\pm 0.25$  degrees Max.

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**Reason For Change:**

To improve the axis-to-axis and axis-to-package alignment specifications for both accelerometer and gyroscope parameters.

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

This modification will not affect the product's fit, form, or reliability; however, it is expected to significantly improve its functionality.

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

All ADIS1654x material with a date code of 2544 or higher will use the new housing.

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**Summary of Supporting Information:**

Qualification will be performed per Industry Standard Test Methods. See attached Qualification Results.

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**Supporting Documents:**

**Attachment 1: Type:** Qualification Results Summary

ADI\_PCN\_25\_0009\_Rev\_-\_ADIS1654x New Housing Qualification Report.pdf

**Attachment 2: Type:** Datasheet Specification Comparison

ADI\_PCN\_25\_0009\_Rev\_-\_ADIS1654x Data Sheet Comparison.pdf

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

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**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:**

PCN\_Americas@analog.com

**Europe:**

PCN\_Europe@analog.com

**Japan:**

PCN\_Japan@analog.com

**Korea:**

PCN\_Korea@analog.com

**Rest of Asia:**

PCN\_ROA@analog.com

## Appendix A - Affected ADI Models:

### Added Parts On This Revision - Product Family / Model Number (9)

ADIS16545 / ADIS16545-1BMLZ

ADIS16545 / ADIS16545-1BMLZX

ADIS16545 / ADIS16545-2BMLZ

ADIS16545 / ADIS16545-3BMLZ

ADIS16547 / AD24547

ADIS16547 / AD24547X

ADIS16547 / ADIS16547-1BMLZ

ADIS16547 / ADIS16547-2BMLZ

ADIS16547 / ADIS16547-3BMLZ

**Appendix B - Revision History:**

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	03-Dec-2025	31-Dec-2025	Initial Release.