



Product/Process Change Notice - PCN 19_0079 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: ADIS1646x Generic: Gyroscope Revised Silicon and Data Sheet Changes

Publication Date: 25-Jun-2019

Effectivity Date: 27-Sep-2019 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

Description Of Change:

Add performance plots for improved Bias Startup Drift typical
Change ADIS1646x-3 typical Angular Random Walk from 0.3 deg/rt-hr to 0.26 deg/rt-hr
Change misalignment error typical from 0.05deg to 0.06deg

Separate noise performance by axes & update numbers as follows:

Change ADIS1646x-1 X typical Rate Noise Density from 0.003 deg/sec/rt-Hz to 0.002 deg/sec/rt-Hz
Change ADIS1646x-2 X typical Rate Noise Density from 0.003 deg/sec/rt-Hz to 0.002 deg/sec/rt-Hz
Change ADIS1646x-2 Y/Z typical Rate Noise Density from 0.003 deg/sec/rt-Hz to 0.0032 deg/sec/rt-Hz
Change ADIS1646x-3 X typical Rate Noise Density from 0.007 deg/sec/rt-Hz to 0.004 deg/sec/rt-Hz
Change ADIS1646x-3 Y/Z typical Rate Noise Density from 0.007 deg/sec/rt-Hz to 0.0065 deg/sec/rt-Hz
Change ADIS1646x-1 X typical Output Noise from 0.07 deg/sec RMS to 0.05 deg/sec RMS
Change ADIS1646x-2 X typical Output Noise from 0.08 deg/sec RMS to 0.05 deg/sec RMS
Change ADIS1646x-3 X typical Output Noise from 0.17 deg/sec RMS to 0.11 deg/sec RMS
Change ADIS1646x-3 Y/Z typical Output Noise from 0.17 deg/sec RMS to 0.16 deg/sec RMS

Reason For Change:

Revised gyroscope silicon

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

No change to form.
No change to fit.
No change to reliability.
Functionality impacted positively by noise, positively by bias, negatively by misalignment error, positively by startup drift.

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

DC1939 and higher will incorporate the revised gyro silicon.

Summary of Supporting Information:

Qualification will be performed per attached Qualification Plan.

Supporting Documents

Attachment 1: Type: Datasheet Specification Comparison

ADI_PCN_19_0079_Rev_-_Spec Comparison.pdf

Attachment 2: Type: Qualification Plan

ADI_PCN_19_0079_Rev_-_Phoenix_Preliminary Qual Plan_46x.pdf

Attachment 3: Type: Datasheet Specification Comparison

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

Added Parts On This Revision - Product Family / Model Number (7)

ADIS16465 / ADIS16465-1BMLZ	ADIS16465 / ADIS16465-2BMLZ	ADIS16465 / ADIS16465-2WBMLZX	ADIS16465 / ADIS16465-3BMLZ	ADIS16467 / ADIS16467-1BMLZ
ADIS16467 / ADIS16467-2BMLZ	ADIS16467 / ADIS16467-3BMLZ			

Appendix B - Revision History

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	25-Jun-2019	27-Sep-2019	Initial Release

Analog Devices, Inc.

DocId:4691 Parent DocId:None Layout Rev:7