



## Product/Process Change Notice - PCN 21\_0248 Rev. B

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. **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.*

<b>PCN Title:</b>	AD7124-8/-4 B Grade Redesign - Metal Edit
<b>Publication Date:</b>	22-Feb-2023
<b>Effectivity Date:</b>	22-Feb-2023 <i>(the earliest date that a customer could expect to receive changed material)</i>
<b>Revision Description:</b>	Added changeover datecodes in Product Identification section

### Description Of Change:

Metal mask edits to improve the following -

Rev\_

1. Performance at -40c low supply with large steps on Analog Input Common Mode to PGA.
2. Prevent Part reset if Analog input outside Datasheet operating conditions and converting 20mV diagnostic.

Rev A

1. The ID register value is now 0x07 (AD7124-4) and 0x17 (AD7124-8).
2. When V\_20MV\_P/V\_20MV\_M is selected as the analog input to the ADC, the absolute voltage on V\_20MV\_M will be at AVSS which may cause the AINM\_UV\_ERR flag to be set (if AINM\_UV\_ERR\_EN=1). So, if the AINM\_UV\_ERR check is enabled, the user should ignore the value of AINM\_UV\_ERR when the channel V\_20MV\_P/V\_20MV\_M is being measured.

### Reason For Change:

Improve robustness and performance of Part.

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

There will be no change to fit, form, function or reliability of the device.

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

Changes will be reflected in the following Datasheet Revisions.

AD7124-4 datasheet rev E

AD7124-8 datasheet rev F.

Changeover Date codes as follows...

Model Date Code

AD70/070Z-0RL7 2245

AD7124-4BBCPZ 2248

AD7124-4BBCPZ-RL 2248

AD7124-4BBCPZ-RL7 2248

AD7124-8BBCPZ 2245

AD7124-8BBCPZ-RL 2245

AD7124-8BBCPZ-RL7 2245

**Summary of Supporting Information:**

No Qual Required

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**Supporting Documents**

None

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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.

<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:

### Existing Parts - Product Family / Model Number (9)

AD7124-4 / AD7124-4BBCPZ	AD7124-4 / AD7124-4BBCPZ-RL	AD7124-4 / AD7124-4BBCPZ-RL7	AD7124-8 / AD70041Z-0RL7	AD7124-8 / AD70051Z-0RL7
AD7124-8 / AD70070Z-0RL7	AD7124-8 / AD7124-8BBCPZ	AD7124-8 / AD7124-8BBCPZ-RL	AD7124-8 / AD7124-8BBCPZ-RL7	

**Appendix B - Revision History:**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	08-Feb-2022	13-May-2022	Initial Release
Rev. A	17-May-2022	17-May-2022	Added detail on 20mV Internal Diagnostic and Product Identification number update.
Rev. B	22-Feb-2023	22-Feb-2023	Added changeover datecodes in Product Identification section