



Product/Process Change Notice - PCN 20_0295 Rev. -

Analog Devices, Inc. Three Technology Way Norwood, Massachusetts 02062-9106

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: ADR504x Family Data Sheet Change

Publication Date: 17-Nov-2020

Effectivity Date: 17-Nov-2020 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release.

Description Of Change:

Page 1: Change to note in Pin Configuration section from "IT IS RECOMMENDED THAT PIN 3 BE CONNECTED TO V-" to "IT IS RECOMMENDED THAT PIN 3 BE CONNECTED TO V+".

Reason For Change:

The data sheet is being updated to accurately reflect device capabilities.

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

No change to fit or form. Improved reliability under certain brown out conditions.

Summary of Supporting Information:

Changes are reflected on the new Product Data Sheet rev. E on page# 1.

Comments

The power-on reset (POR) circuit may not activate correctly during very short duration power supply brown-out (<100ns). If the brown out reaches a low enough voltage level the trim cell latches may lose power and not be reset to their correct values since the POR circuit did not trigger. In this case the output can be programmed (trimmed) to a different voltage.

Both conditions to cause this situation are only possible in a narrow range of brown-out duration and voltage level dip. The change in output voltage is temporary until the part is reset by a power cycle.

Connecting pin 3 to V+ instead of V- will eliminate the possibility of this issue occurring.

Supporting Documents

Attachment 1: Type: Delta Qualification Matrix

ADI_PCN_20_0295_Rev_-_ADR504x_DELTA QUALIFICATION MATRIX-ZVEI-4_1.xlsm

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 (27)**

ADR5040 / ADR5040AKSZ-REEL7	ADR5040 / ADR5040ARTZ-REEL7	ADR5040 / ADR5040BKSZ-REEL7	ADR5040 / ADR5040BRTZ-REEL7	ADR5040 / ADR5040WARTZ-R7
ADR5041 / ADR5041AKSZ-REEL7	ADR5041 / ADR5041ARTZ-REEL7	ADR5041 / ADR5041BKSZ-REEL7	ADR5041 / ADR5041BRTZ-REEL7	ADR5041 / ADR5041WARTZ-R7
ADR5041 / ADR5041WBRTZ-R7	ADR5043 / ADR5043AKSZ-REEL7	ADR5043 / ADR5043ARTZ-REEL7	ADR5043 / ADR5043BKSZ-REEL7	ADR5043 / ADR5043BRTZ-REEL7
ADR5044 / ADR5044AKSZ-REEL7	ADR5044 / ADR5044ARTZ-REEL7	ADR5044 / ADR5044BKSZ-REEL7	ADR5044 / ADR5044BRTZ-REEL7	ADR5044 / ADR5044WARTZ-R7
ADR5044 / ADR5044WBRTZ-R7	ADR5045 / ADR5045AKSZ-REEL7	ADR5045 / ADR5045ARTZ-REEL7	ADR5045 / ADR5045BKSZ-REEL7	ADR5045 / ADR5045BRTZ-REEL7
ADR5045 / ADR5045WARTZ-REEL7	ADR5045 / ADR5045WBRTZ-REEL7			

Appendix B - Revision History

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	17-Nov-2020	17-Nov-2020	Initial Release.

Analog Devices, Inc.

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