



## Product/Process Change Notice - PCN 20\_0272 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:** Additional Wafer Fab Location (Vanguard International Semiconductor, Taiwan) for LTC2949 and LTC7821

**Publication Date:** 27-Aug-2020

**Effectivity Date:** 29-Nov-2020 *(the earliest date that a customer could expect to receive changed material)*

**Revision Description:**  
Initial Release

### Description Of Change:

ADI has successfully qualified 0.6µm BICMOS devices, LTC2949 and LTC7821, to be manufactured in the Vanguard International Semiconductor wafer fabrication facility located in Taiwan. These products are currently manufactured at our wafer fab facility located in Camas, Washington. The ability to process wafers in an additional wafer fabrication facility provides an extra measure of safety to insure uninterrupted product flow to our customers. The affected products will be manufactured using ADI specified manufacturing flows, materials, process controls, and monitors ensuring no degradation of quality and reliability performance.

### Reason For Change:

Vanguard has been a successful wafer fab foundry partner for ADI, and this business expansion will ensure continuity of supply to our customers well into the future. Vanguard International Semiconductor third party certifications and capacity details are attached for your review. Additional information can be found at <http://www.vis.com.tw>.

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

The qualification of 0.6µm BICMOS process from the Vanguard International Semiconductor has been completed following AEC-Q100 qualification requirements. Upon completion of process qualification individual device by device qualification will be initiated. The devices will be characterized over the full operating temperature range. Additionally, devices from Vanguard International Semiconductor will be carefully compared to the ADI fabricated devices to ensure identical performance when installed in customer applications.

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

The devices manufactured in Vanguard International Semiconductor will have the same part number and the same top mark as those manufactured at ADI. However, when necessary we can use our lot number traceability system to identify where and when a device was fabricated.

### Summary of Supporting Information:

Qualification has been completed per Industry Standard Test Methods. See attached Qualification Result.

### Supporting Documents

**Attachment 1: Type:** Delta Qualification Matrix

ADI\_PCN\_20\_0272\_Rev\_-\_Delta-Qualification-Matrix-ZVEI-4.1 BICMOS 8-12.xlsm

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**Attachment 2: Type:** Other

ADI\_PCN\_20\_0272\_Rev\_-\_Vanguard Summary.pdf

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**Attachment 3: Type:** Qualification Results Summary

ADI\_PCN\_20\_0272\_Rev\_-\_VIS 0.60 BiCMOS Qual. Summary.pdf

**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 (8)**

LTC2949 / LTC2949HLXE#3ZZPBF	LTC2949 / LTC2949HLXE#3ZZTRPBF	LTC2949 / LTC2949LXE#3ZZPBF	LTC2949 / LTC2949LXE#3ZZTRPBF	LTC7821 / LTC7821EUH#PBF
LTC7821 / LTC7821EUH#TRPBF	LTC7821 / LTC7821IUH#PBF	LTC7821 / LTC7821IUH#TRPBF		

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	27-Aug-2020	29-Nov-2020	Initial Release

Analog Devices, Inc.

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