



## Product/Process Change Notice - PCN 18\_0064 Rev. C

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.

*Note: Revised fields are indicated by a red field name. See Appendix B for revision history.*

**PCN Title:** Bump Site Transfer and Qualification of Select 6L and 8L SOT23 Flip Chip on Lead Packages

**Publication Date:** 27-Mar-2019

**Effectivity Date:** 29-Jun-2019 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Add Automotive Qualification Results Summary.

### Description Of Change:

- 1) Bumping Site change from Amkor Taiwan (AT5) to Chipbond, Taiwan (CB4)
  - 2) Die Level Bumping change from High Lead Bumping to Cu Pillar / SnAg Bumping
  - 3) Assembly change from High Lead bumped die Flip Chip on Lead to Cu Pillar / SnAg bumped die Flip Chip on Lead.
- See detailed change description attachment in the supporting documents section of this PCN.

### Reason For Change:

High lead bumping manufacturer, Amkor (AT5) will no longer provide the aforementioned High Lead wafer bumping process. Bumping process will transfer to Chipbond (CB4) using Cu Pillar / SnAg bumping which is compliant to environmental regulation (lead-free bump).

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

No change on fit, form, function or reliability.

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

No visible external difference on the assembled part. The difference (change from High Lead bumping to Cu Pillar SnAg bumping) can be observed thru x-ray. Material will be traced by "Date Code" and "Assembly Lot Number".

### Summary of Supporting Information:

Qualification will be performed per AEC-Q100, Stress Test Qualification for Integrated Circuits. See attached Qualification Plan.

### Supporting Documents

**Attachment 1: Type:** Detailed Change Description

ADI\_PCN\_18\_0064\_Rev\_C\_Change Description.docx

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**Attachment 2: Type:** Qualification Plan

ADI\_PCN\_18\_0064\_Rev\_C\_000311\_Qualification Plan Summary for SOT23 Automotive.pdf

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**Attachment 3: Type:** Qualification Plan

ADI\_PCN\_18\_0064\_Rev\_C\_000313\_Qualification Plan Summary for SOT\_23 for Commercial.pdf

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**Attachment 4: Type:** Delta Qualification Matrix

ADI\_PCN\_18\_0064\_Rev\_C\_DeQuMa for ADG819 FCOL.xlsm

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**Attachment 5: Type:** Qualification Results Summary

**Attachment 6: Type:** Qualification Results Summary

ADI\_PCN\_18\_0064\_Rev\_C\_Qualification Results Summary for Automotive Grade.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**

**Existing Parts - Product Family / Model Number (54)**

AD5060 / AD5060ARJZ-1500RL7	AD5060 / AD5060ARJZ-2500RL7	AD5060 / AD5060BRJZ-1500RL7	AD5060 / AD5060BRJZ-1REEL7	AD5060 / AD5060BRJZ-2500RL7
AD5060 / AD5060BRJZ-2REEL7	AD5060 / AD5060YR.JZ-1500RL7	AD5061 / AD5061BRJZ-1500RL7	AD5061 / AD5061BRJZ-2500RL7	AD5061 / AD5061BRJZ-2REEL7
AD5061 / AD5061YR.JZ-1500RL7	AD5061 / AD5061YR.JZ-1REEL7	AD5062 / AD5062BRJZ-1500RL7	AD5062 / AD5062BRJZ-1REEL7	AD5062 / AD5062BRJZ-2500RL7
AD5062 / AD5062BRJZ-2REEL7	AD5620 / AD5620BRJZ-1500RL7	AD5620 / AD5620BRJZ-2500RL7	AD5620 / AD5620BRJZ-2REEL7	AD5640 / AD5640BRJZ-1500RL7
AD5640 / AD5640BRJZ-1REEL7	AD5640 / AD5640BRJZ-2500RL7	AD5660 / AD5660ARJZ-1500RL7	AD5660 / AD5660ARJZ-1REEL7	AD5660 / AD5660ARJZ-2500RL7
AD5660 / AD5660ARJZ-2REEL7	AD5660 / AD5660ARJZ-3500RL7	AD5660 / AD5660BRJZ-1500RL7	AD5660 / AD5660BRJZ-1REEL7	AD5660 / AD5660BRJZ-2500RL7
AD5660 / AD5660BRJZ-2REEL7	AD5660 / AD5660BRJZ-3500RL7	AD5662 / AD5662ARJZ-1500RL7	AD5662 / AD5662ARJZ-2REEL7	AD5662 / AD5662BRJZ-1500RL7
AD5662 / AD5662BRJZ-1REEL7	AD5662 / AD5662BRJZ-2500RL7	AD5662 / AD5662BRJZ-2REEL7	AD5680 / AD5680BRJZ-1500RL7	AD5680 / AD5680BRJZ-2500RL7
AD5680 / AD5680BRJZ-2REEL7	AD7680 / AD7680ARJZ-REEL7	AD7680 / AD7680BRJZ-R2	AD7680 / AD7680BRJZ-REEL7	AD7940 / AD7940BRJZ-REEL7
ADG801 / ADG801BRTZ-500RL7	ADG801 / ADG801BRTZ-REEL	ADG801 / ADG801BRTZ-REEL7	ADG802 / ADG802BRTZ-500RL7	ADG802 / ADG802BRTZ-REEL7
ADG819 / AD15136Z-0REEL7	ADG819 / ADG819BRTZ-500RL7	ADG819 / ADG819BRTZ-REEL	ADG819 / ADG819BRTZ-REEL7	

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	23-May-2018	30-Sep-2018	Initial Release
Rev. A	08-Oct-2018	10-Jan-2019	Addition of P/N AD5640BRJZ-2500RL7.
Rev. B	26-Oct-2018	28-Jan-2019	Adding Qualification Results Summary for commercial grade.
Rev. C	27-Mar-2019	29-Jun-2019	Add Automotive Qualification Results Summary.

Analog Devices, Inc.

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