



## Product/Process Change Notice - PCN 14\_0049 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:** Conversion of 6x6mm and 7x7mm LFCSP Package Outlines from Punch to Sawn and Transfer of Assembly Site to Amkor Philippines

**Publication Date:** 29-Apr-2015

**Effectivity Date:** 29-Apr-2015 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Change CP-48-10 to CP-48-4 in Package Outline Drawing Attachment 3.

### Description Of Change

ADI has qualified and will be utilizing Assembly subcontractor Amkor in the Philippines for 6x6mm and 7x7 body sizes LFCSP products. ADI has also qualified Amkor's standard bill of materials in a SAWN singulated leadframe.

There will be a change in BOM for die attach epoxy from Ablestik 8290 to Ablestik 3230. Pin1 indicator will be laser marked as part of the change. See attached for details and package outline differences.

### Reason For Change

Sawn LFCSP is ADI's technology direction for LFCSP. The use of ADI qualified Amkor-Philippines as an assembly site will ensure continued source of product supply. ADI's assembly subcontractors manufacture our products using Analog Devices specified manufacturing flows, process controls and monitors. This assures that our customers receive the same level of quality and reliability on products they receive from qualified ADI manufacturing locations.

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

The devices function and reliability as specified by the product datasheet will be unaffected by these changes. The Lead Foot Print Dimension will remain the same for both punch and sawn LFCSP packages.

### Summary of Supporting Information

Qualification has been performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Qualification Report Summary.

### Comments

All customer samples ordered since the original issuance of this PCN have been manufactured with the changed die attach material.

### Supporting Documents

**Attachment 1: Type:** Qualification Results Summary

**Attachment 2: Type:** Detailed Change Description

ADI\_PCN\_14\_0049\_Rev\_C\_Materials and Package Configuration.pdf

**Attachment 3: Type:** Package Outline Drawing

ADI\_PCN\_14\_0049\_Rev\_C\_Package Outline Drawing.pdf

| For questions on this PCN, please send an email to the regional contacts below or contact your local ADI sales representatives. |                         |                      |                       |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|-----------------------|
| <b>Americas:</b>                                                                                                                | PCN_Americas@analog.com | <b>Europe:</b>       | PCN_Europe@analog.com |
|                                                                                                                                 |                         | <b>Japan:</b>        | PCN_Japan@analog.com  |
|                                                                                                                                 |                         | <b>Rest of Asia:</b> | PCN_ROA@analog.com    |

## Appendix A - Affected ADI Models

### Existing Parts - Product Family / Model Number (102)

|                                |                               |                               |                               |                               |
|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| AD5346 / AD5346BCPZ            | AD5347 / AD5347BCPZ           | AD5348 / AD5348BCPZ           | AD5405 / AD5405YCPZ           | AD5405 / AD5405YCPZ-REEL      |
| AD5405 / AD5405YCPZ-REEL7      | AD7650 / AD7650ACPRL          | AD7650 / AD7650ACPZ           | AD7650 / AD7650ACPZRL         | AD7651 / AD7651ACPRL          |
| AD7652 / AD7652ACPRL           | AD7653 / AD7653ACPRL          | AD7654 / AD7654ACPZ           | AD7654 / AD7654ACPZRL         | AD7655 / AD7655ACPZ           |
| AD7655 / AD7655ACPZRL          | AD7660 / AD7660ACPZRL         | AD7664 / AD7664ACPZRL         | AD7674 / AD7674ACPRL          | AD7674 / AD7674ACPZ           |
| AD7674 / AD7674ACPZRL          | AD8123 / AD80223              | AD8123 / AD8123ACPZ           | AD8123 / AD8123ACPZ-R7        | AD8123 / AD8123ACPZ-RL        |
| AD8124 / AD8124ACPZ            | AD8124 / AD8124ACPZ-R7        | AD8124 / AD8124ACPZ-RL        | AD8264 / AD8264ACPZ           | AD8264 / AD8264ACPZ-R7        |
| AD8264 / AD8264ACPZ-RL         | AD8382 / AD45024              | AD8382 / AD8382ACPZ           | AD9940 / AD9940BCPZ           | AD9940 / AD9940BCPZRL         |
| ADCLK950 / ADCLK950BCPZ        | ADCLK950 / ADCLK950BCPZ-REEL7 | ADCLK954 / ADCLK954BCPZ       | ADCLK954 / ADCLK954BCPZ-REEL7 | ADE8165 / ADE8165ACPZ-01      |
| ADE8165 / ADE8165ACPZRL-01     | ADF7020 / AD57002Z-0RL        | ADF7020-1 / ADF7020-1BCPZ     | ADF7020-1 / ADF7020-1BCPZ-RL  | ADF7020-1 / ADF7020-1BCPZ-RL7 |
| ADF7021-N / ADF7021-NBCPZ      | ADF7021-N / ADF7021-NBCPZ-RL  | ADF7021-N / ADF7021-NBCPZ-RL7 | ADF9010 / ADF9010BCPZ         | ADF9010 / ADF9010BCPZ-RL7     |
| ADG3247 / ADG3247BCPZ          | ADG3247 / ADG3247BCPZ-REEL    | ADG725 / ADG725BCPZ           | ADG731 / ADG731BCPZ           | ADG731 / ADG731BCPZ-REEL      |
| ADG731 / ADG731BCPZ-REEL7      | ADL5354 / ADL5354ACPZ-R7      | ADL5356 / ADL5356ACPZ-R7      | ADL5358 / ADL5358ACPZ-R7      | ADL5590 / ADL5590ACPZ-R7      |
| ADL5591 / ADL5591ACPZ-R7       | ADM1062 / ADM1062ACPZ         | ADM1062 / ADM1062ACPZ-REEL7   | ADM1063 / ADM1063ACPZ         | ADM1063 / ADM1063ACPZ-REEL7   |
| ADM1064 / ADM1064ACPZ          | ADM1065 / ADM1065ACPZ         | ADM1066 / ADM1066ACPZ         | ADM1066 / ADM1066ACPZ-REEL    | ADM1066 / ADM1066ACPZ-REEL7   |
| ADM1067 / ADM1067ACPZ          | ADM1069 / ADM1069ACPZ         | ADM1069 / ADM1069ACPZ-REEL    | ADM1069 / ADM1069ACPZ-REEL7   | ADN2807 / ADN2807ACPZ         |
| ADN2807 / ADN2807ACPZ-RL       | ADN2811 / ADN2811ACPZ-CML     | ADN2811 / ADN2811ACPZ-CML-RL  | ADN2819 / ADN2819ACPZ-CML     | ADN2819 / ADN2819ACPZ-CML-RL  |
| ADN2841 / ADN2841ACPZ-48       | ADN2841 / ADN2841ACPZ-48-RL   | ADN2847 / ADN2847ACPZ-48      | ADUC7019 / ADUC7019BCPZ62I    | ADUC7019 / ADUC7019BCPZ62I-RL |
| ADUC7019 / ADUC7019BCPZ62I-RL7 | ADUC7019 / ADUC70TEL          | ADUC7019 / ADUC70TEL-RL7      | ADUC7021 / ADUC7021BCPZ32     | ADUC7021 / ADUC7021BCPZ32-RL7 |
| ADUC7021 / ADUC7021BCPZ62      | ADUC7021 / ADUC7021BCPZ62-RL  | ADUC7021 / ADUC7021BCPZ62-RL7 | ADUC7021 / ADUC7021BCPZ62I    | ADUC7021 / ADUC7021BCPZ62I-RL |
| ADUC7021 / ADUC70SMARTLINKRL7  | ADUC7022 / ADUC7022BCPZ32     | ADUC7022 / ADUC7022BCPZ32-RL  | ADUC7022 / ADUC7022BCPZ62     | ADUC7022 / ADUC7022BCPZ62-RL7 |
| ADV7125 / ADV7125WBCPZ170      | ADV7125 / ADV7125WBCPZ170-RL  |                               |                               |                               |

### Removed Parts On All Revisions - Product Family / Model Number (37)

|                              |                             |                              |                            |                             |
|------------------------------|-----------------------------|------------------------------|----------------------------|-----------------------------|
| AD7651 / AD7651ACPZ          | AD7651 / AD7651ACPZRL       | AD7652 / AD7652ACPZ          | AD7652 / AD7652ACPZRL      | AD7653 / AD7653ACPZ         |
| AD7653 / AD7653ACPZRL        | AD9571 / AD9571ACPZLVD      | AD9571 / AD9571ACPZLVD-R7    | AD9571 / AD9571ACPZLVD-RL  | AD9571 / AD9571ACPZPEC      |
| AD9571 / AD9571ACPZPEC-R7    | AD9571 / AD9571ACPZPEC-RL   | AD9572 / AD9572ACPZLVD       | AD9572 / AD9572ACPZLVD-R7  | AD9572 / AD9572ACPZLVD-RL   |
| AD9572 / AD9572ACPZPEC       | AD9572 / AD9572ACPZPEC-R7   | AD9572 / AD9572ACPZPEC-RL    | ADE8155 / ADE8155ACPZ-01   | ADE8155 / ADE8155ACPZRL-01  |
| ADN2841 / ADN2841ACPZ-32     | ADN2841 / ADN2841ACPZ-32-RL | ADN2841 / ADN2841ACPZ-32-RL7 | ADN2847 / ADN2847ACPZ-32   | ADN2847 / ADN2847ACPZ-32-RL |
| ADN2847 / ADN2847ACPZ-32-RL7 | ADV7125 / ADV7125BCPZ170    | ADV7125 / ADV7125BCPZ170-RL  | ADV7174 / ADV7174KCPZ-REEL | ADV7179 / ADV7179BCPZ       |
| ADV7179 / ADV7179BCPZ-REEL   | ADV7179 / ADV7179KCPZ       | ADV7179 / ADV7179KCPZ-REEL   | ADV7392 / ADV7392BCPZ      | ADV7392 / ADV7392BCPZ-REEL  |
| ADV7393 / ADV7393BCPZ        | ADV7393 / ADV7393BCPZ-REEL  |                              |                            |                             |

| Appendix B - Revision History |              |                  |                                                                     |
|-------------------------------|--------------|------------------|---------------------------------------------------------------------|
| Rev                           | Publish Date | Effectivity Date | Rev Description                                                     |
| Rev. -                        | 20-Mar-2014  | 12-Mar-2015      | Initial Release                                                     |
| Rev. A                        | 10-Apr-2014  | 09-Apr-2014      | Remove parts not changing                                           |
| Rev. B                        | 10-Dec-2014  | 10-Mar-2015      | Add parts Change in die attach material                             |
| Rev. C                        | 29-Apr-2015  | 29-Apr-2015      | Change CP-48-10 to CP-48-4 in Package Outline Drawing Attachment 3. |
|                               |              |                  |                                                                     |

Analog Devices, Inc.

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