



## Product/Process Change Notice - PCN 14\_0047 Rev. A

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 Material Report). Any issues with this PCN or requirements to qualify the change (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 5x5mm body Size LFCSP Package Outlines from Punch to Sawn and Transfer of Assembly Site to Amkor Philippines.

**Publication Date:** 28-Feb-2014

**Effectivity Date:** 28-Feb-2014 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Remove parts

### Description Of Change

ADI has qualified and will be utilizing Assembly subcontractor Amkor in Philippines for 5x5mm body size LFCSP products. ADI has also qualified Amkor's standard bill of materials in a SAWN singulated leadframe. There will be no change in BOM. 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.

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### Supporting Documents

**Attachment 1: Type:** Qualification Report Summary

ADI\_PCN\_14\_0047\_Rev\_A\_Qualification Summary.pdf

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

ADI\_PCN\_14\_0047\_Rev\_A\_Materials and Package Configuration.pdf

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

**For questions on this PCN, send email to the regional contacts below or contact your local ADI sales representative**

**Americas:** [PCN\\_Americas@analog.com](mailto:PCN_Americas@analog.com)

**Europe:** [PCN\\_Europe@analog.com](mailto:PCN_Europe@analog.com)

**Japan:** [PCN\\_Japan@analog.com](mailto:PCN_Japan@analog.com)

**Rest of Asia:** [PCN\\_ROA@analog.com](mailto:PCN_ROA@analog.com)

**Appendix A - Affected ADI Models**

**Existing Parts - Product Family / Model Number (177)**

|                              |                              |                              |                               |                              |
|------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------|
| AD5800 / AD11/2048Z-0REEL    | AD5800 / AD11/2048Z-0REEL7   | AD5800 / AD5800BCPZ-REEL     | AD5800 / AD5800BCPZ-REEL7     | AD5800 / AD5800BCPZ-U1       |
| AD5800 / AD5800BCPZ-U2       | AD5801 / AD5801BCBZ-U2       | AD5801 / AD5801BCBZ-U7       | AD5801 / AD5801BCPZ-REEL      | AD5801 / AD5801BCPZ-REEL7    |
| AD5808 / AD5808BCPZ-REEL     | AD5808 / AD5808BCPZ-REEL7    | AD5808 / AD5808BCPZ-U1       | AD7142 / AD7142ACPZ-1500RL7   | AD7142 / AD7142ACPZ-1REEL    |
| AD7142 / AD7142ACPZ-500RL7   | AD7142 / AD7142ACPZ-REEL     | AD7877 / AD7877ACPZ-500RL7   | AD7877 / AD7877ACPZ-REEL      | AD7877 / AD7877ACPZ-REEL7    |
| AD7877A / AD7877AACPZ-500-U1 | AD7877A / AD7877AACPZ-500RL7 | AD7877A / AD7877AACPZ-REEL   | AD7877A / AD7877AACPZ-REEL7   | AD7938-6 / AD7938BCPZ-6      |
| AD7938-6 / AD7938BCPZ-6REEL7 | AD8101 / AD8101XCPZ          | AD8143 / AD8143ACPZ-R2       | AD8143 / AD8143ACPZ-REEL      | AD8143 / AD8143ACPZ-REEL7    |
| AD8145 / AD8145YCPZ-R2       | AD8145 / AD8145YCPZ-R7       | AD8145 / AD8145YCPZ-RL       | AD8153 / AD8153ACPZ           | AD8153 / AD8153ACPZ-RL7      |
| AD8193 / AD8193ACPZ          | AD8193 / AD8193ACPZ-R7       | AD8193 / AD8193XCPZ          | AD8194 / AD8194ACPZ           | AD8194 / AD8194ACPZ-R7       |
| AD8194 / AD8194XCPZ          | AD8260 / AD8260ACPZ-R7       | AD8260 / AD8260ACPZ-RL       | AD8332 / AD8332ACPZ-R2        | AD8332 / AD8332ACPZ-R7       |
| AD8332 / AD8332ACPZ-RL       | AD8333 / AD8333ACPZ-REEL     | AD8333 / AD8333ACPZ-REEL7    | AD8364 / AD45231Z-R7          | AD8364 / AD8364ACPZ-R2       |
| AD8364 / AD8364ACPZ-REEL7    | AD8366 / AD8366ACPZ-R7       | AD8366 / AD8366XCPZ          | AD8372 / AD8372ACPZ-R7        | AD8392A / AD8392ACPZ-R2      |
| AD8392A / AD8392ACPZ-R7      | AD8392A / AD8392ACPZ-RL      | AD8392A / AD8392AARE-RL      | AD8570 / AD8570ACP-REEL       | AD9609 / AD9609BCPZ-20       |
| AD9609 / AD9609BCPZ-40       | AD9609 / AD9609BCPZ-65       | AD9609 / AD9609BCPZ-80       | AD9609 / AD9609BCPZRL7-20     | AD9609 / AD9609BCPZRL7-40    |
| AD9609 / AD9609BCPZRL7-65    | AD9609 / AD9609BCPZRL7-80    | AD9609 / AD9609XCPZ-40       | AD9609 / AD9609XCPZ-80        | AD9629 / AD9629BCPZ-20       |
| AD9629 / AD9629BCPZ-40       | AD9629 / AD9629BCPZ-65       | AD9629 / AD9629BCPZ-80       | AD9629 / AD9629BCPZRL7-20     | AD9629 / AD9629BCPZRL7-40    |
| AD9629 / AD9629BCPZRL7-65    | AD9629 / AD9629BCPZRL7-80    | AD9629 / AD9629XCPZ-40       | AD9649 / AD9649BCPZ-20        | AD9649 / AD9649BCPZ-40       |
| AD9649 / AD9649BCPZ-65       | AD9649 / AD9649BCPZ-80       | AD9649 / AD9649BCPZRL7-20    | AD9649 / AD9649BCPZRL7-40     | AD9649 / AD9649BCPZRL7-65    |
| AD9649 / AD9649BCPZRL7-80    | AD9649 / AD9649XCPZ-80       | AD9664 / AD9664ACPDNZ-REEL   | AD9665 / AD9665ACPZ-REEL      | AD9665 / AD9665ACPZ-REEL7    |
| AD9667 / AD9667ACPZ-REEL     | AD9667 / AD9667ACPZ-REEL7    | AD9668 / AD9668ACPZ-RL       | ADA4410-6 / ADA4410-6ACPZ-R2  | ADA4410-6 / ADA4410-6ACPZ-R7 |
| ADA4410-6 / ADA4410-6ACPZ-RL | ADCLK948 / ADCLK948PCBZ      | ADCLK948 / ADCLK948BCPZ      | ADCLK948 / ADCLK948BCPZ-REEL7 | ADF4193 / ADF4193BCPZ-U1     |
| ADF4193 / ADF4193BCPZ-U2     | ADF4193 / ADF4193WCCPZ-U1    | ADF4350 / ADF4350BCPZ        | ADF4350 / ADF4350BCPZ-RL7     | ADF4350 / ADF4350ACPZ-RL7    |
| ADF4350 / ADF4350ACPZ-U1     | ADF4350 / ADF4350BCPZ        | ADF4350 / ADF4350BCPZ-RL     | ADF4350 / ADF4350BCPZ-RL7     | ADF4350 / ADF4350BCPZ-U7     |
| ADF4350 / ADF4901BCPZ        | ADF4350 / ADF4901BCPZ-RL7    | ADF4350 / ADF4901BCPZ-U1     | ADF4350 / ADF4902BCPZ         | ADF4350 / ADF4902BCPZ-RL7    |
| ADF4350 / ADF4905BCPZ        | ADF4350 / ADF4905BCPZ-RL7    | ADF4350 / ADF4906BCPZ        | ADF4350 / ADF4906BCPZ-RL7     | ADF4350 / ADF4911BCPZ-RL7    |
| ADF4350 / SB3F4350BCPZ-RL7   | ADF4351 / ADF4351BCPZ        | ADF4351 / ADF4351BCPZ-RL7    | ADF4351 / ADF4351BCPZ-U6      | ADF4351 / ADF4907BCPZ        |
| ADF4351 / ADF4907BCPZ-RL7    | ADG1206 / ADG1206YCPZ-REEL7  | ADG1207 / ADG1207YCPZ-REEL7  | ADG1406 / ADG1406BCPZ-REEL7   | ADG1407 / ADG1407BCPZ-REEL7  |
| ADG1606 / ADG1606BCPZ-REEL7  | ADG1607 / ADG1607BCPZ-REEL7  | ADG2128 / ADG2128BCPZ-HS-RL7 | ADG2128 / ADG2128BCPZ-REEL    | ADG2128 / ADG2128BCPZ-REEL7  |
| ADG2128 / ADG2128YCPZ-HS-RL7 | ADG2128 / ADG2128YCPZ-REEL   | ADG2128 / ADG2128YCPZ-REEL7  | ADL5240 / ADL5240ACPZ-R7      | ADL5240 / ADL5240XCPZ        |
| ADL5243 / ADL5243ACPZ-R7     | ADL5304 / ADL5304ACPZ-R2     | ADL5304 / ADL5304ACPZ-R7     | ADL5304 / ADL5304ACPZ-RL      | ADL5336 / ADL5336ACPZ-R7     |
| ADL5336 / ADL5336XCPZ-R7     | ADL5353 / ADL5353ACPZ-R7     | ADL5355 / ADL5355ACPZ-R7     | ADL5357 / ADL5357ACPZ-R7      | ADL5363 / ADL5363ACPZ-R7     |
| ADL5363 / ADL5363XCPZ        | ADL5365 / ADL5365ACPZ-R7     | ADL5367 / ADL5367ACPZ-R7     | ADL5367 / ADL5367XCPZ         | ADL5519 / ADL5519ACPZ-R2     |
| ADL5519 / ADL5519ACPZ-R7     | ADL5534 / ADL5534ACPZ-R7     | ADN2817 / ADN2817ACPZ        | ADN2817 / ADN2817ACPZ-RL      | ADN2817 / ADN2817ACPZ-RL7    |
| ADN2818 / ADN2818ACPZ        | ADN2818 / ADN2818ACPZ-RL     | ADN2818 / ADN2818ACPZ-RL7    | ADP1043 / ADP1043ACPZ         | ADP1043 / ADP1043ACPZ-RL     |
| ADP1043A / ADP1043ACPZ-R7    | ADP1043A / ADP1043ACPZ-RL    | ADP1043A / ADP1045ACPZ-RL    | ADP1823 / ADP1823ACPZ-R7      | ADP1829 / ADP1829ACPZ-R7     |
| ADP2114 / ADP2114ACPZ-R2     | ADP2114 / ADP2114ACPZ-R7     | ADP2116 / ADP2116ACPZ-R7     | ADRF6510 / ADRF6510ACPZ-R7    | ADRF6516 / ADRF6516ACPZ-R7   |
| ADUC7061 / ADUC7061BCPZ32    | ADUC7061 / ADUC7061BCPZ32-RL |                              |                               |                              |

**Removed Parts On All Revisions - Product Family / Model Number (18)**

|                           |                           |                              |                           |                          |
|---------------------------|---------------------------|------------------------------|---------------------------|--------------------------|
| AD5801 / AD5801BCBZ-REEL  | AD5801 / AD5801BCBZ-REEL7 | AD5808 / AD5808BCBZ-REEL     | AD5808 / AD5808BCBZ-REEL7 | AD7877 / AD7877ACBZ-REEL |
| AD7877 / AD7877ACBZ-REEL7 | AD7938-6 / AD7938BSUJ-6   | AD7938-6 / AD7938BSUJ-6REEL7 | AD8392A / AD8392AAREZ     | AD8392A / AD8392AAREZ-R7 |
| AD8392A / AD8392AAREZ-RL  | AD9649 / AD9649W          | AD9740 / AD9740ACP-PCBZ      | AD9740 / AD9740ACPZ       | AD9740 / AD9740ACPZRL7   |
| AD9740 / AD9740ARRL       | AD9740 / AD9740ARZ        | AD9740 / AD9740ARZRL         |                           |                          |

**Appendix B - Revision History**

| <b>Rev</b> | <b>Publish Date</b> | <b>Effectivity Date</b> | <b>Rev Description</b> |
|------------|---------------------|-------------------------|------------------------|
| Rev. -     | 12-Feb-2014         | 13-May-2014             | Initial Release        |
| Rev. A     | 28-Feb-2014         | 28-Feb-2014             | Remove parts           |

Analog Devices, Inc.

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