



## Product/Process Change Notice - PCN 11\_0104 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 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 Select Sizes of LFCSP Package Outlines from Punch to Sawn and Transfer of Assembly Site to ASE-Korea.

**Publication Date:** 23-Mar-2012

**Effectivity Date:** 23-Mar-2012 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Removal of parts

### Description Of Change

ADI has qualified and will be utilizing Assembly subcontractor ASE in Korea for LFCSP products in 4x4, 5x5 and 7x7 packages. ADI has also qualified ASE's standard bill of materials in a SAWN singulated leadframe. See attached for BOM changes and package outline differences.

### Reason For Change

Sawn LFCSP is ADI's technology direction for LFCSP. The use of ADI qualified ASE-Korea 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 Foot Print Dimension will remain the same for both punch and sawn LFCSP package

### 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:** Package Outline Drawing

ADI\_PCN\_11\_0104\_Rev\_C\_POD Punch vs. Sawn.pdf

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**Attachment 2: Type:** Qualification Report Summary

ADI\_PCN\_11\_0104\_Rev\_C\_AEK\_LFCSP Qual Report.pdf

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**Attachment 3: Type:** Detailed Change Description

ADI\_PCN\_11\_0104\_Rev\_C\_LFCSP Punch to Sawn at AEK BOM.pdf

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**Attachment 4: Type:** Detailed Change Description

ADI\_PCN\_11\_0104\_Rev\_C\_Parts and Wire sizes.pdf

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

|                  |                         |                |                       |                      |                      |
|------------------|-------------------------|----------------|-----------------------|----------------------|----------------------|
| <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 (149)

|                               |                               |                                |                               |                               |
|-------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|
| AD53538 / ADCMP567BCPZ        | AD5424 / AD5424YCPZ           | AD5424 / AD5424YCPZ-REEL7      | AD5445 / AD5445YCPZ           | AD7490 / AD7490BCPZ           |
| AD7490 / AD7490BCPZ-REEL7     | AD7625 / AD7625BCPZ           | AD7625 / AD7625BCPZRL7         | AD7626 / AD7626BCPZ           | AD7626 / AD7626BCPZ-RL7       |
| AD8376 / AD8376ACPZ-R7        | AD9235 / AD9235BCPZ-40        | AD9235 / AD9235BCPZRL7-40      | AD9236 / AD9236BCPZ-80        | AD9236 / AD9236BCPZRL7-80     |
| AD9237 / AD9237BCPZ-40        | AD9237 / AD9237BCPZ-65        | AD9237 / AD9237BCPZRL7-40      | AD9237 / AD9237BCPZRL7-65     | AD9245 / AD9245BCPZ-20        |
| AD9245 / AD9245BCPZ-40        | AD9245 / AD9245BCPZ-65        | AD9245 / AD9245BCPZ-80         | AD9245 / AD9245BCPZRL7-20     | AD9245 / AD9245BCPZRL7-40     |
| AD9245 / AD9245BCPZRL7-65     | AD9245 / AD9245BCPZRL7-80     | AD9552 / AD9552BCPZ            | AD9552 / AD9552BCPZ-REEL7     | AD9742 / AD9742ACPZ           |
| AD9742 / AD9742ACPZRL7        | AD9744 / AD9744ACPZ           | AD9744 / AD9744ACPZRL7         | AD9748 / AD9748ACPZ           | AD9748 / AD9748ACPZRL7        |
| ADF4002 / ADF4002BCPZ         | ADF4002 / ADF4002BCPZ-RL      | ADF4002 / ADF4002BCPZ-RL7      | ADF4007 / ADF4007BCPZ         | ADF4007 / ADF4007BCPZ-RL      |
| ADF4007 / ADF4007BCPZ-RL7     | ADF4108 / ADF4108BCPZ         | ADF4108 / ADF4108BCPZ-RL       | ADF4108 / ADF4108BCPZ-RL7     | ADF4110 / ADF4110BCPZ         |
| ADF4110 / ADF4110BCPZ-RL      | ADF4110 / ADF4110BCPZ-RL7     | ADF4112 / ADF4112BCPZ          | ADF4112 / ADF4112BCPZ-RL      | ADF4112 / ADF4112BCPZ-RL7     |
| ADF4113HV / ADF4113HVBBCPZ    | ADF4113HV / ADF4113HVBBCPZ-RL | ADF4113HV / ADF4113HVBBCPZ-RL7 | ADF4154 / ADF4154BCPZ         | ADF4154 / ADF4154BCPZ-RL      |
| ADF4154 / ADF4154BCPZ-RL7     | ADF4156 / ADF4156BCPZ         | ADF4156 / ADF4156BCPZ-RL       | ADF4156 / ADF4156BCPZ-RL7     | ADF4157 / ADF4157BCPZ         |
| ADF4157 / ADF4157BCPZ-RL      | ADF4157 / ADF4157BCPZ-RL7     | ADF4212L / ADF4212LBCPZ        | ADF4212L / ADF4212LBCPZ-RL    | ADF4212L / ADF4212LBCPZ-RL7   |
| ADF4360-5 / ADF4360-5BCPZ     | ADF4360-5 / ADF4360-5BCPZRL   | ADF4360-5 / ADF4360-5BCPZRL7   | ADF7021-V / ADF7021-VBCPZ     | ADF7021-V / ADF7021-VBCPZ-RL  |
| ADF7025 / ADF7025BCPZ         | ADF7025 / ADF7025BCPZ-RL      | ADF7025 / ADF7025BCPZ-RL7      | ADG2108 / ADG2108BCPZ-HS-RL7  | ADG2128 / ADG2128BCPZ-HS-RL7  |
| ADG2128 / ADG2128BCPZ-REEL    | ADG2128 / ADG2128BCPZ-REEL7   | ADG2128 / ADG2128YCPZ-REEL     | ADG2128 / ADG2128YCPZ-REEL7   | ADG3245 / ADG3245BCPZ         |
| ADG758 / ADG758BCPZ           | ADG758 / ADG758BCPZ-REEL7     | ADG759 / ADG759BCPZ            | ADG759 / ADG759BCPZ-REEL      | ADG759 / ADG759BCPZ-REEL7     |
| ADG781 / ADG781BCPZ           | ADG781 / ADG781BCPZ-REEL      | ADG781 / ADG781BCPZ-REEL7      | ADG782 / ADG782BCPZ           | ADG782 / ADG782BCPZ-REEL7     |
| ADG783 / ADG783BCPZ           | ADG783 / ADG783BCPZ-REEL      | ADG783 / ADG783BCPZ-REEL7      | ADG904 / ADG904BCPZ           | ADG904 / ADG904BCPZ-REEL      |
| ADG904 / ADG904BCPZ-REEL7     | ADG936 / ADG936BCPZ           | ADG936 / ADG936BCPZ-RL         | ADG936 / ADG936BCPZ-RL7       | ADM3307E / ADM3307EACPZ       |
| ADM3307E / ADM3307EACPZ-REEL  | ADM3307E / ADM3307EACPZ-REEL7 | ADM3310E / ADM3310EACPZ        | ADM3310E / ADM3310EACPZ-REEL  | ADM3310E / ADM3310EACPZ-REEL7 |
| ADM3311E / ADM3311EACPZ       | ADM3311E / ADM3311EACPZ-REEL  | ADM3311E / ADM3311EACPZ-REEL7  | ADM3312E / ADM3312EACPZ       | ADM3312E / ADM3312EACPZ-REEL  |
| ADM3312E / ADM3312EACPZ-REEL7 | ADM3315E / ADM3315EACPZ       | ADM3315E / ADM3315EACPZ-REEL   | ADM3315E / ADM3315EACPZ-REEL7 | ADM8832 / ADM8832ACPZ         |
| ADM8832 / ADM8832ACPZ-REEL    | ADM8832 / ADM8832ACPZ-REEL7   | ADM8839 / ADM8839ACPZ          | ADM8839 / ADM8839ACPZ-REEL    | ADM8839 / ADM8839ACPZ-REEL7   |
| ADN2805 / ADN2805ACPZ         | ADN2805 / ADN2805ACPZ-500RL7  | ADN2805 / ADN2805ACPZ-RL7      | ADN2812 / ADN2812ACPZ         | ADN2812 / ADN2812ACPZ-RL      |
| ADN2812 / ADN2812ACPZ-RL7     | ADN2814 / ADN2814ACPZ         | ADN2814 / ADN2814ACPZ-500RL7   | ADN2814 / ADN2814ACPZ-RL7     | ADN2816 / ADN2816ACPZ         |
| ADN2816 / ADN2816ACPZ-500RL7  | ADN2816 / ADN2816ACPZ-RL7     | ADN2830 / ADN2830ACPZ32        | ADN2841 / ADN2841ACPZ-32      | ADN2841 / ADN2841ACPZ-32-RL   |
| ADN2841 / ADN2841ACPZ-32-RL7  | ADN2847 / ADN2847ACPZ-32      | ADN2847 / ADN2847ACPZ-32-RL    | ADN2847 / ADN2847ACPZ-32-RL7  | ADN2848 / ADN2848ACPZ-32      |
| ADN2848 / ADN2848ACPZ-32-RL   | ADN2848 / ADN2848ACPZ-32-RL7  | ADN8830 / ADN8830ACPZ          | ADN8830 / ADN8830ACPZ-REEL    | ADN8830 / ADN8830ACPZ-REEL7   |
| ADN8831 / ADN8831ACPZ-R2      | ADN8831 / ADN8831ACPZ-REEL7   | ADRF6510 / ADRF6510ACPZ-R7     | ADRF6516 / ADRF6516ACPZ-R7    |                               |

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

|                             |                            |                            |                             |                            |
|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| AD7142 / AD7142ACPZ-1500RL7 | AD7142 / AD7142ACPZ-1REEL  | AD7142 / AD7142ACPZ-500RL7 | AD7142 / AD7142ACPZ-REEL    | AD7877 / AD7877ACPZ-500RL7 |
| AD7877 / AD7877ACPZ-REEL    | AD7877 / AD7877ACPZ-REEL7  | AD8143 / AD8143ACPZ-R2     | AD8143 / AD8143ACPZ-REEL    | AD8143 / AD8143ACPZ-REEL7  |
| AD8145 / AD8145YCPZ-R2      | AD8145 / AD8145YCPZ-R7     | AD8145 / AD8145YCPZ-RL     | AD8330 / AD8330ACPZ-R2      | AD8330 / AD8330ACPZ-R7     |
| AD8330 / AD8330ACPZ-RL      | AD8332 / AD8332ACPZ-R2     | AD8332 / AD8332ACPZ-R7     | AD8332 / AD8332ACPZ-RL      | AD8333 / AD8333ACPZ-REEL   |
| AD8333 / AD8333ACPZ-REEL7   | AD8364 / AD8364ACPZ-R2     | AD8364 / AD8364ACPZ-REEL7  | AD8372 / AD8372ACPZ-R2      | AD8372 / AD8372ACPZ-R7     |
| AD8392A / AD8392AACPZ-R2    | AD8392A / AD8392AACPZ-R7   | AD8392A / AD8392AACPZ-RL   | AD9629 / AD9629BCPZ-40      | AD9629 / AD9629BCPZRL7-40  |
| ADCLK925 / ADCLK925BCPZ-R2  | ADCLK925 / ADCLK925BCPZ-R7 | ADG3304 / ADG3304BCPZ-REEL | ADG3304 / ADG3304BCPZ-REEL7 | ADG3308 / ADG3308BCPZ-REEL |
| ADG3308 / ADG3308BCPZ-REEL7 | ADP1829 / ADP1829ACPZ-R7   |                            |                             |                            |

#### Appendix B - Revision History

| Rev    | Publish Date | Rev Description                               |
|--------|--------------|-----------------------------------------------|
| Rev. - | 24-Jun-2011  | Initial Release                               |
| Rev. A | 30-Aug-2011  | Remove parts not affected by this change.     |
| Rev. B | 26-Oct-2011  | Removal of parts not affected by this change. |
| Rev. C | 23-Mar-2012  | Removal of parts                              |
|        |              |                                               |

Analog Devices, Inc.

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