



## Product/Process Change Notice - PCN 11\_0104 Rev. D

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:** 25-Oct-2012

**Effectivity Date:** 23-Jan-2013 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Add 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\_D\_POD Punch vs. Sawn.pdf

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

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

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

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

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

**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 (149)**

AD53638 / 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 / ADF4113HVBCPZ	ADF4113HV / ADF4113HVBCPZ-RL	ADF4113HV / ADF4113HVBCPZ-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	

**Added Parts On This Revision - Product Family / Model Number (5)**

AD9235 / AD9235BCPZ-20	AD9235 / AD9235BCPZ-65	AD9235 / AD9235BCPZRL7-20	ADG2108 / ADG2108BCPZ-R2	ADG2108 / ADG2108BCPZ-REEL7
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**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**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	24-Jun-2011	22-Sep-2011	Initial Release
Rev. A	30-Aug-2011	30-Aug-2011	Remove parts not affected by this change.
Rev. B	26-Oct-2011	26-Oct-2011	Removal of parts not affected by this change.
Rev. C	23-Mar-2012	23-Mar-2012	Removal of parts
Rev. D	25-Oct-2012	23-Jan-2013	Add Parts

Analog Devices, Inc.

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