



## Product/Process Change Notice - PCN 14\_0047 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 5x5mm body Size LFCSP Package Outlines from Punch to Sawn and Transfer of Assembly Site to Amkor Philippines.

**Publication Date:** 09-Dec-2014

**Effectivity Date:** 09-Mar-2015 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Add parts transferring  
Remove parts not transferring

### 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 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

ADI\_PCN\_14\_0047\_Rev\_C\_Qualification\_Summary.pdf

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

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

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

ADI\_PCN\_14\_0047\_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.**

**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 (170)**

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	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 / AD8392AACPZ-R2	AD8392A / AD8392AACPZ-R7	AD8392A / AD8392AACPZ-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	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 / ADF4350ACCPZ-RL7	ADF4350 / ADF4350ACCPZ-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 / SBF34350ABCPCZ-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
ADN2817 / ADN2817ACPZ	ADN2817 / ADN2817ACPZ-RL	ADN2817 / ADN2817ACPZ-RL7	ADN2818 / ADN2818ACPZ	ADN2818 / ADN2818ACPZ-RL
ADN2818 / ADN2818ACPZ-RL7	ADP1043 / ADP1043ACPZ	ADP1043 / ADP1043ACPZ-RL	ADP1043A / ADP1043AACPZ-R7	ADP1043A / ADP1043AACPZ-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

**Added Parts On This Revision - Product Family / Model Number (12)**

AD53539 / ADCMP566BCPZ	AD8101 / AD8101BCPZ	AD8101 / AD8101BCPZ-R7	AD8101 / AD8101BCPZ-RL	ADF4196 / ADF4196BCPZ
ADF4196 / ADF4196BCPZ-RL7	ADM3310E / ADW3000Z-0REEL	ADM3310E / ADW3000Z-0REEL7	ADN2850 / ADN2850BCPZ25	ADN2850 / ADN2850BCPZ25-RL7
ADN2850 / ADN2850BCPZ250	ADN2850 / ADN2850BCPZ250-RL7			

**Removed Parts On All Revisions - Product Family / Model Number (25)**

AD5801 / AD5801BCBZ-REEL	AD5801 / AD5801BCBZ-REEL7	AD5801 / AD5801BCPZ-REEL	AD5801 / AD5801BCPZ-REEL7	AD5808 / AD5808BCBZ-REEL
AD5808 / AD5808BCBZ-REEL7	AD5808 / AD5808BCPZ-REEL	AD5808 / AD5808BCPZ-REEL7	AD7877 / AD7877ACBZ-REEL	AD7877 / AD7877ACBZ-REEL7
AD7938-6 / AD7938BSUZ-6	AD7938-6 / AD7938BSUZ-6REEL7	AD8392A / AD8392AAREZ	AD8392A / AD8392AAREZ-R7	AD8392A / AD8392AAREZ-RL
AD9649 / AD9649W	AD9665 / AD9665ACPZ-REEL	AD9665 / AD9665ACPZ-REEL7	AD9740 / AD9740ACP-PCBZ	AD9740 / AD9740ACPZ
AD9740 / AD9740ACPZRL7	AD9740 / AD9740ARRL	AD9740 / AD9740ARZ	AD9740 / AD9740ARZRL	ADL5534 / ADL5534ACPZ-R7

**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
Rev. B	10-Nov-2014	08-Feb-2015	Change in die attach material Remove parts not included in the transfer
Rev. C	09-Dec-2014	09-Mar-2015	Add parts transferring Remove parts not transferring

Analog Devices, Inc.

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