



## Product/Process Change Notice - PCN 13\_0223 Rev. A

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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:** Assembly and Test Transfer of Select 2x3 and 3x3mm LFCSP Products to STATS ChipPAC China

**Publication Date:** 07-Nov-2013

**Effectivity Date:** 18-May-2014 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Remove FG models not applicable to this PCN.  
Revise qualification plan to correct sample sizes.

### Description Of Change

ADI is transferring to subcontractor STATS ChipPAC China for the assembly and test manufacturing of ADI products in 2x3 and 3x3mm LFCSP packages. The package outline dimensions and BOM of each product will be maintained.

### Reason For Change

ADI is transferring to STATS ChipPAC China due to the closure of STATS ChipPAC Malaysia at the end of 2014.

ADI's assembly subcontractors manufacture products using Analog Devices specified manufacturing flows, materials, process controls and monitors, ensuring the same level of quality and reliability on products they receive from the new site.

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

The transfer will have no impact on the form, fit, function and reliability of the devices.

### Product Identification *(this section will describe how to identify the changed material)*

The parts that will be assembled after the transfer will be identified by assembly lot and the country of origin.

### Summary of Supporting Information

Qualification will be performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Qualification Plan Summary. Test correlation and validation will also be performed.

### Supporting Documents

**Attachment 1: Type:** Qualification Plan Summary

ADI\_PCN\_13\_0223\_Rev\_A\_Reliability Qualification Plan.pdf

**Attachment 2: Type:** Test Correlation Plan

ADI\_PCN\_13\_0223\_Rev\_A\_Test Plan.pptx

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

ADI\_PCN\_13\_0223\_Rev\_A\_BOM.pptx

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

**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 (186)**

|                              |                              |                              |                              |                              |
|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| AD5121 / AD5121BCPZ10-RL7    | AD5121 / AD5121BCPZ100-RL7   | AD5122 / AD5122BCPZ10-RL7    | AD5122 / AD5122BCPZ100-RL7   | AD5122A / AD5122ABCPZ10-RL7  |
| AD5122A / AD5122ABCPZ100-RL7 | AD5123 / AD5123BCPZ10-RL7    | AD5123 / AD5123BCPZ100-RL7   | AD5141 / AD5141BCPZ10-RL7    | AD5141 / AD5141BCPZ100-RL7   |
| AD5142 / AD5142BCPZ10-RL7    | AD5142 / AD5142BCPZ100-RL7   | AD5142A / AD5142ABCPZ10-RL7  | AD5142A / AD5142ABCPZ100-RL7 | AD5143 / AD5143BCPZ10-RL7    |
| AD5143 / AD5143BCPZ100-RL7   | AD5313R / AD5313RBCPZ-RL7    | AD5316R / AD5316RBCPZ-RL7    | AD5317R / AD5317RBCPZ-RL7    | AD5338R / AD5338RBCPZ-RL7    |
| AD5512A / AD5512AACPZ-500RL7 | AD5512A / AD5512AACPZ-REEL7  | AD5541A / AD5541AACPZ-REEL7  | AD5541A / AD5541ABCPZ-1-RL7  | AD5541A / AD5541ABCPZ-500RL7 |
| AD5541A / AD5541ABCPZ-REEL7  | AD5542A / AD5542AACPZ-REEL7  | AD5542A / AD5542ABCPZ-1-RL7  | AD5542A / AD5542ABCPZ-500RL7 | AD5542A / AD5542ABCPZ-REEL7  |
| AD5601 / AD5601BCPZ-RL7      | AD5602 / AD5602BCPZ-2-RL7    | AD5611 / AD5611ACPZ-RL7      | AD5612 / AD5612ACPZ-2-RL7    | AD5621 / AD5621ACPZ-RL7      |
| AD5622 / AD5622ACPZ-2-RL7    | AD5623R / AD5623HUAWEI-DIE   | AD5623R / AD5623RACPZ-5REEL7 | AD5623R / AD5623RBCPZ-3R2    | AD5623R / AD5623RBCPZ-3REEL7 |
| AD5623R / AD5623RBCPZ-5REEL7 | AD5624 / AD5624BCPZ-R2       | AD5624 / AD5624BCPZ-REEL7    | AD5624R / AD5624RBCPZ-3R2    | AD5624R / AD5624RBCPZ-3REEL7 |
| AD5624R / AD5624RBCPZ-5R2    | AD5624R / AD5624RBCPZ-5REEL7 | AD5625R / AD5625RACPZ-REEL7  | AD5641 / AD5641ACPZ-REEL7    | AD5645R / AD5645RBCPZ-R2     |
| AD5645R / AD5645RBCPZ-REEL7  | AD5645R / AD80008Z-0RL7      | AD5684 / AD5684BCPZ-RL7      | AD5684R / AD5684RBCPZ-RL7    | AD5685R / AD5685RBCPZ-RL7    |
| AD5686 / AD5686ACPZ-RL7      | AD5686 / AD5686BCPZ-RL7      | AD5686R / AD5686RACPZ-RL7    | AD5686R / AD5686RBCPZ-RL7    | AD5687 / AD5687BCPZ-RL7      |
| AD5687R / AD5687RBCPZ-RL7    | AD5688 / AD5688BCPZ-RL7      | AD5688R / AD5688RACPZ-RL7    | AD5688R / AD5688RBCPZ-RL7    | AD5694 / AD5694BCPZ-RL7      |
| AD5694R / AD5694RBCPZ-RL7    | AD5695R / AD5695RBCPZ-RL7    | AD5696 / AD5696ACPZ-RL7      | AD5696 / AD5696BCPZ-RL7      | AD5696R / AD5696RACPZ-RL7    |
| AD5696R / AD5696RBCPZ-RL7    | AD5697R / AD5697RBCPZ-RL7    | AD8338 / AD8338ACPZ-R7       | AD8338 / AD8338ACPZ-RL       | AD8657 / AD8657ACPZ-R7       |
| AD8657 / AD8657ACPZ-RL       | AD9837 / AD9837ACPZ-RL       | AD9837 / AD9837ACPZ-RL7      | AD9837 / AD9837BCPZ-RL       | AD9837 / AD9837BCPZ-RL7      |
| ADA4084-2 / ADA4084-2ACPZ-R7 | ADA4084-2 / ADA4084-2ACPZ-RL | ADA4096-4 / ADA4096-4ACPZ-R7 | ADA4096-4 / ADA4096-4ACPZ-RL | ADA4500-2 / ADA4500-2ACPZ-R7 |
| ADA4500-2 / ADA4500-2ACPZ-RL | ADA4528-1 / ADA4528-1ACPZ-R2 | ADA4528-1 / ADA4528-1ACPZ-R7 | ADA4528-1 / ADA4528-1ACPZ-RL | ADA4528-2 / ADA4528-2ACPZ-R7 |
| ADA4528-2 / ADA4528-2ACPZ-RL | ADA4638-1 / ADA4638-1ACPZ-R7 | ADA4638-1 / ADA4638-1ACPZ-RL | ADA4661-2 / ADA4661-2ACPZ-R7 | ADA4661-2 / ADA4661-2ACPZ-RL |
| ADA4666-2 / ADA4666-2ACPZ-R7 | ADA4666-2 / ADA4666-2ACPZ-RL | ADA4960-1 / ADA4960-1ACPZ-R2 | ADA4960-1 / ADA4960-1ACPZ-R7 | ADA4960-1 / ADA4960-1ACPZ-RL |
| ADCLK944 / ADCLK944BCPZ-R2   | ADCLK944 / ADCLK944BCPZ-R7   | ADD5205 / ADD5205ACPZ-RL     | ADG4612 / ADG4612BCPZ-REEL7  | ADG4613 / ADG4613BCPZ-REEL7  |
| ADG5401 / ADG5401BCPZ-U1     | ADG5419 / ADG5419BCPZ-U1     | ADG5421 / ADG5421BCPZ-U1     | ADG5423 / ADG5423BCPZ-U1     | ADP1614 / ADP1614ACPZ-1.3-R7 |
| ADP1614 / ADP1614ACPZ-650-R7 | ADP1614 / ADP1614ACPZ-R7     | ADP1650 / ADP1650ACPZ-R7     | ADP1870 / ADP1870ACPZ-0.3-R7 | ADP1870 / ADP1870ACPZ-0.6-R7 |
| ADP1870 / ADP1870ACPZ-1.0-R7 | ADP1871 / ADP1871ACPZ-0.3-R7 | ADP1871 / ADP1871ACPZ-0.6-R7 | ADP1871 / ADP1871ACPZ-1.0-R7 | ADP1880 / ADP1880ACPZ-R7     |
| ADP2119 / ADP2119ACPZ-1.0-R7 | ADP2119 / ADP2119ACPZ-1.2-R7 | ADP2119 / ADP2119ACPZ-1.5-R7 | ADP2119 / ADP2119ACPZ-1.8-R7 | ADP2119 / ADP2119ACPZ-2.5-R7 |
| ADP2119 / ADP2119ACPZ-3.3-R7 | ADP2119 / ADP2119ACPZ-R7     | ADP2120 / ADP2120ACPZ-1.0-R7 | ADP2120 / ADP2120ACPZ-1.2-R7 | ADP2120 / ADP2120ACPZ-1.5-R7 |
| ADP2120 / ADP2120ACPZ-1.8-R7 | ADP2120 / ADP2120ACPZ-2.5-R7 | ADP2120 / ADP2120ACPZ-3.3-R7 | ADP2120 / ADP2120ACPZ-R7     | ADP2370 / ADP2370ACPZ-1.2-R7 |
| ADP2370 / ADP2370ACPZ-1.5-R7 | ADP2370 / ADP2370ACPZ-1.8-R7 | ADP2370 / ADP2370ACPZ-2.5-R7 | ADP2370 / ADP2370ACPZ-3.0-R7 | ADP2370 / ADP2370ACPZ-3.3-R7 |
| ADP2370 / ADP2370ACPZ-5.0-R7 | ADP2370 / ADP2370ACPZ-R2     | ADP2370 / ADP2370ACPZ-R7     | ADP2371 / ADP2371ACPZ-1.2-R7 | ADP2371 / ADP2371ACPZ-1.8-R7 |
| ADP2371 / ADP2371ACPZ-3.3-R7 | ADP2371 / ADP2371ACPZ-R7     | ADP2441 / ADP2441ACPZ-R2     | ADP2441 / ADP2441ACPZ-R7     | ADP2442 / ADP2442ACPZ-R7     |
| ADP320 / ADP320ACPZ-110-R7   | ADP320 / ADP320ACPZ331815R7  | ADP322 / ADP322ACPZ-115-R7   | ADP322 / ADP322ACPZ-135-R7   | ADP322 / ADP322ACPZ-145-R7   |
| ADP322 / ADP322ACPZ-155-R7   | ADP322 / ADP322ACPZ-165-R7   | ADP322 / ADP322ACPZ-175-R7   | ADP322 / ADP322ACPZ-189-R7   | ADP323 / ADP323ACPZ-R7       |
| ADP5585 / ADP5585ACPZ-00-R7  | ADP5585 / ADP5585ACPZ-01-R7  | ADP5585 / ADP5585ACPZ-03-R7  | ADP7102 / ADP7102ACPZ-1.5-R7 | ADP7102 / ADP7102ACPZ-1.8-R7 |
| ADP7102 / ADP7102ACPZ-2.5-R7 | ADP7102 / ADP7102ACPZ-3.0-R7 | ADP7102 / ADP7102ACPZ-3.3-R7 | ADP7102 / ADP7102ACPZ-5.0-R7 | ADP7102 / ADP7102ACPZ-9.0-R7 |
| ADP7102 / ADP7102ACPZ-R7     | ADP7104 / ADP7104ACPZ-1.5-R7 | ADP7104 / ADP7104ACPZ-1.8-R7 | ADP7104 / ADP7104ACPZ-2.5-R7 | ADP7104 / ADP7104ACPZ-3.0-R7 |
| ADP7104 / ADP7104ACPZ-3.3-R7 | ADP7104 / ADP7104ACPZ-5.0-R7 | ADP7104 / ADP7104ACPZ-9.0-R7 | ADP7104 / ADP7104ACPZ-R7     | ADP7105 / ADP7105ACPZ-1.8-R7 |
| ADP7105 / ADP7105ACPZ-3.3-R7 | ADP7105 / ADP7105ACPZ-5.0-R7 | ADP7105 / ADP7105ACPZ-R2     | ADP7105 / ADP7105ACPZ-R7     | ADP7182 / ADP7182ACPZ-5.0-R7 |
| ADP7182 / ADP7182ACPZ-R7     |                              |                              |                              |                              |

**Removed Parts On All Revisions - Product Family / Model Number (16)**

|                              |                              |                              |                              |                              |
|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| ADM7150 / ADM7150ACPZ-3.3-R2 | ADM7150 / ADM7150ACPZ-3.3-R7 | ADM7150 / ADM7150ACPZ-4.5-R2 | ADM7150 / ADM7150ACPZ-4.5-R7 | ADM7150 / ADM7150ACPZ-4.8-R2 |
| ADM7150 / ADM7150ACPZ-4.8-R7 | ADM7150 / ADM7150ACPZ-5.0-R2 | ADM7150 / ADM7150ACPZ-5.0-R7 | ADM7151 / ADM7151ACPZ-02-R2  | ADM7151 / ADM7151ACPZ-02-R7  |
| ADM7151 / ADM7151ACPZ-04-R2  | ADM7151 / ADM7151ACPZ-04-R7  | ADP2230 / ADP2230ACPZ-1218R7 | ADP2230 / ADP2230ACPZ-1233R7 | ADP2230 / ADP2230ACPZ-1833R7 |
| ADP2230 / ADP2230ACPZ-R7     |                              |                              |                              |                              |

**Appendix B - Revision History**

| <b>Rev</b> | <b>Publish Date</b> | <b>Effectivity Date</b> | <b>Rev Description</b>  |
|------------|---------------------|-------------------------|---|
| Rev. -     | 18-Oct-2013         | 18-May-2014             | Initial Release   |
| Rev. A     | 07-Nov-2013         | 18-May-2014             | Remove FG models not applicable to this PCN. Revise qualification plan to correct sample sizes. |

Analog Devices, Inc.

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