



## Product/Process Change Notice - PCN 16\_0036 Rev. D

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This notice is to inform you of a change that will be made to certain ADI products (see Appendix A) that you may have purchased in the last 2 years. **Any inquiries or requests with this PCN (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 Relocation to Stats ChipPAC Jiangyin and Test Transfer to Stats ChipPAC Singapore of Select LFCSP Products

**Publication Date:** 18-Oct-2016

**Effectivity Date:** 18-Oct-2016 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Adding Test Correlation Summary Report and removing parts.

### Description Of Change

The assembly of select LFCSP, Mini LFCSP and Side Solderable LFCSP products is relocating from STATS ChipPAC China Shanghai to STATS ChipPAC China Jiangyin. The testing will transfer from STATS ChipPAC China Shanghai to STATS ChipPAC Singapore. The package outline dimensions and BOM of each product will be maintained.

### Reason For Change

ADI Assembly is transferring to STATS ChipPAC China Jiangyin and Test will move to STATS ChipPAC Singapore due to the relocation of STATS ChipPAC China Shanghai at the end of September 2017.

ADI's assembly and test 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 and tested after the transfer will be identified by assembly lot and the country of origin.

### Summary of Supporting Information

Qualifications are completed per AEC-Q100, Stress Test Qualification for Integrated Circuits. See attached Qualification Results. Test Correlation and validation has been performed, see the attached Test Qualification Report.

### Comments

This applies for all packing/reel options.

During the transition to the New Assembly and Test Site, products will be Assembled and Tested from the either Current or New Assembly and Test Site.

Example: SCC Assembly and Test to SC3 Assembly and STA Test, the customers may receive products that are assembled at either SCC or SC3 and tested at either SCC or STA.

## Supporting Documents

**Attachment 1: Type:** Qualification Results Summary

ADI\_PCN\_16\_0036\_Rev\_D\_Qual Results Summary for LFCSP Commercial.pdf

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**Attachment 2: Type:** Qualification Results Summary

ADI\_PCN\_16\_0036\_Rev\_D\_Qual Results Summary for Mini-LFCSP Commercial.pdf

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**Attachment 3: Type:** Qualification Results Summary

ADI\_PCN\_16\_0036\_Rev\_D\_Qual Results Summary for LFCSP\_SS Automotive.pdf

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**Attachment 4: Type:** Test Correlation Report

ADI\_PCN\_16\_0036\_Rev\_D\_Test Correlation Results.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 (262)

|                              |                              |                              |                              |                              |
|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| AD5110 / AD5110BCPZ10-1-RL7  | AD5110 / AD5110BCPZ10-500R7  | AD5110 / AD5110BCPZ10-RL7    | AD5110 / AD5110BCPZ80-1-RL7  | AD5110 / AD5110BCPZ80-500R7  |
| AD5110 / AD5110BCPZ80-RL7    | AD5111 / AD5111BCPZ10-500R7  | AD5111 / AD5111BCPZ10-RL7    | AD5111 / AD5111BCPZ80-500R7  | AD5111 / AD5111BCPZ80-RL7    |
| AD5112 / AD5112BCPZ10-1-RL7  | AD5112 / AD5112BCPZ10-500R7  | AD5112 / AD5112BCPZ10-RL7    | AD5112 / AD5112BCPZ5-1-RL7   | AD5112 / AD5112BCPZ5-500R7   |
| AD5112 / AD5112BCPZ5-RL7     | AD5112 / AD5112BCPZ80-1-RL7  | AD5112 / AD5112BCPZ80-500R7  | AD5112 / AD5112BCPZ80-RL7    | AD5113 / AD5113BCPZ10-500R7  |
| AD5113 / AD5113BCPZ10-RL7    | AD5113 / AD5113BCPZ5-500R7   | AD5113 / AD5113BCPZ5-RL7     | AD5113 / AD5113BCPZ80-500R7  | AD5113 / AD5113BCPZ80-RL7    |
| AD5114 / AD5114BCPZ10-1-RL7  | AD5114 / AD5114BCPZ10-500R7  | AD5114 / AD5114BCPZ10-RL7    | AD5114 / AD5114BCPZ80-1-RL7  | AD5114 / AD5114BCPZ80-500R7  |
| AD5114 / AD5114BCPZ80-RL7    | AD5115 / AD5115BCPZ10-500R7  | AD5115 / AD5115BCPZ10-RL7    | AD5115 / AD5115BCPZ80-500R7  | AD5115 / AD5115BCPZ80-RL7    |
| AD5116 / AD5116BCPZ10-500R7  | AD5116 / AD5116BCPZ10-RL7    | AD5116 / AD5116BCPZ5-500R7   | AD5116 / AD5116BCPZ5-RL7     | AD5116 / AD5116BCPZ80-500R7  |
| AD5116 / AD5116BCPZ80-RL7    | AD5601 / AD5601BCPZ-RL7      | AD5602 / AD5602BCPZ-2-RL7    | AD5611 / AD5611ACPZ-RL7      | AD5612 / AD5612ACPZ-2-RL7    |
| AD5621 / AD5621ACPZ-RL7      | AD5622 / AD5622ACPZ-2-RL7    | AD5625R / AD5625RACPZ-REEL7  | AD5641 / AD5641ACPZ-REEL7    | AD5681R / AD5681RBCPZ-1RL7   |
| AD5681R / AD5681RBCPZ-RL7    | AD5682R / AD5682RBCPZ-RL7    | AD5683 / AD5683BCPZ-RL7      | AD5683R / AD5683RACPZ-1RL7   | AD5683R / AD5683RACPZ-2RL7   |
| AD5683R / AD5683RACPZ-RL7    | AD5683R / AD5683RBCPZ-1RL7   | AD5683R / AD5683RBCPZ-RL7    | AD5691R / AD5691RACPZ-1RL7   | AD5691R / AD5691RBCPZ-RL7    |
| AD5692R / AD5692RACPZ-RL7    | AD5693 / AD5693BCPZ-RL7      | AD5693R / AD5693RACPZ-1RL7   | AD5693R / AD5693RACPZ-RL7    | AD5693R / AD5693RBCPZ-2RL7   |
| AD7091 / AD7091BCPZ-RL       | AD7091 / AD7091BCPZ-RL7      | AD7179-4 / AD7179-4BCPZ      | AD7179-4 / AD7179-4BCPZ-RL   | AD7179-4 / AD7179-4BCPZ-RL7  |
| AD7685 / AD7685ACPZRL7       | AD7685 / AD7685BCPZRL7       | AD7685 / AD7685CCPZRL        | AD7685 / AD7685CCPZRL7       | AD7686 / AD7686BCPZRL7       |
| AD7686 / AD7686CCPZRL7       | AD7687 / AD7687BCPZRL7       | AD7688 / AD7688BCPZRL7       | AD7942 / AD7942BCPZRL7       | AD7946 / AD7946BCPZRL7       |
| AD9837 / AD9837ACPZ-RL       | AD9837 / AD9837ACPZ-RL7      | AD9837 / AD9837BCPZ-RL       | AD9837 / AD9837BCPZ-RL7      | AD9838 / AD9838ACPZ-RL       |
| AD9838 / AD9838ACPZ-RL7      | AD9838 / AD9838BCPZ-RL       | AD9838 / AD9838BCPZ-RL7      | AD9943 / AD9943KCPZ          | AD9943 / AD9943KCPZRL        |
| AD9944 / AD9944KCPZ          | AD9944 / AD9944KCPZRL        | AD9945 / AD80281KCPZRL7      | AD9945 / AD9945KCPZ          | AD9945 / AD9945KCPZRL7       |
| ADA4096-2 / ADA4096-2ACPZ-R7 | ADA4096-2 / ADA4096-2ACPZ-RL | ADA4800 / ADA4800ACPZ-R7     | ADA4800 / ADA4800ACPZ-RL     | ADAU1372 / AD71169BCPZ       |
| ADAU1372 / AD71169BCPZRL     | ADAU1372 / ADAU1372BCPZ      | ADAU1372 / ADAU1372BCPZRL    | ADCLK944 / ADCLK944BCPZ-R7   | ADD5207 / ADD5207ACPZ-RL     |
| ADD17018 / ADD17018BCPZ      | ADD17018 / ADD17018BCPZRL    | ADF4001 / ADF4001BCPZ        | ADF4001 / ADF4001BCPZ-RL7    | ADF4107 / ADF4107BCPZ        |
| ADF4107 / ADF4107BCPZ-REEL   | ADF4107 / ADF4107BCPZ-REEL7  | ADF4113 / ADF4113BCPZ        | ADF4113 / ADF4113BCPZ-RL7    | ADF4153 / ADF4153BCPZ        |
| ADF4153 / ADF4153BCPZ-RL     | ADF4153 / ADF4153BCPZ-RL7    | ADF4153A / ADF4153ABCPZ      | ADF4153A / ADF4153ABCPZ-RL7  | ADF4193 / ADF4193BCPZ        |
| ADF4193 / ADF4193BCPZ-RL     | ADF4193 / ADF4193BCPZ-RL7    | ADF7020 / AD45203Z-RL        | ADF7020 / ADF7020BCPZ        | ADF7020 / ADF7020BCPZ-RL     |
| ADF7022 / ADF7022BCPZ        | ADF7022 / ADF7022BCPZ-REEL   | ADF7023 / AD57/005Z-0RL      | ADF7023 / ADF7023BCPZ        | ADF7023 / ADF7023BCPZ-RL     |
| ADF7024 / ADF7024BCPZ        | ADF7024 / ADF7024BCPZ-RL     | ADG5204 / ADG5204BCPZ-RL7    | ADG5206 / ADG5206BCPZ-RL7    | ADG5207 / ADG5207BCPZ-RL7    |
| ADG5208 / ADG5208BCPZ-RL7    | ADG5209 / ADG5209BCPZ-RL7    | ADG5212 / ADG5212BCPZ-RL7    | ADG5213 / ADG5213BCPZ-RL7    | ADG5233 / ADG5233BCPZ-RL7    |
| ADG5234 / ADG5234BCPZ-RL7    | ADG5236 / ADG5236BCPZ-RL7    | ADG5404 / ADG5404BCPZ-REEL7  | ADG5408 / ADG5408BCPZ-REEL7  | ADG5409 / ADG5409BCPZ-REEL7  |
| ADG5413 / ADG5413BCPZ-REEL7  | ADG5433 / ADG5433BCPZ-REEL7  | ADG5436 / ADG5436BCPZ-REEL7  | ADL5201 / ADL5201NSN-DIE     | ADL5202 / ADL5202NSN-DIE     |
| ADM1075 / ADM1075-1ACPZ      | ADM7160 / ADM7160ACPZN1.8-R2 | ADM7160 / ADM7160ACPZN1.8-R7 | ADM7160 / ADM7160ACPZN2.5-R2 | ADM7160 / ADM7160ACPZN2.5-R7 |
| ADM7160 / ADM7160ACPZN3.3-R2 | ADM7160 / ADM7160ACPZN3.3-R7 | ADP122 / ADP122ACPZ-1.8-R7   | ADP122 / ADP122ACPZ-2.0-R7   | ADP122 / ADP122ACPZ-2.5-R7   |
| ADP122 / ADP122ACPZ-2.6-R7   | ADP122 / ADP122ACPZ-2.8-R7   | ADP122 / ADP122ACPZ-3.0-R7   | ADP122 / ADP122ACPZ-3.3-R7   | ADP123 / ADP123ACPZ-R7       |
| ADP124 / ADP124ACPZ-1.8-R7   | ADP124 / ADP124ACPZ-2.8-R7   | ADP124 / ADP124ACPZ-2.9-R7   | ADP124 / ADP124ACPZ-3.0-R7   | ADP124 / ADP124ACPZ-3.3-R7   |
| ADP125 / ADP125ACPZ-R7       | ADP151 / ADP151ACPZ-1.2-R7   | ADP151 / ADP151ACPZ-1.5-R7   | ADP151 / ADP151ACPZ-1.8-R7   | ADP151 / ADP151ACPZ-2.5-R7   |
| ADP151 / ADP151ACPZ-2.7-R7   | ADP151 / ADP151ACPZ-2.8-R7   | ADP151 / ADP151ACPZ-3.0-R7   | ADP151 / ADP151ACPZ-3.3-R7   | ADP1606 / ADP1606ACPZN1.8-R7 |
| ADP1607 / ADP1607ACPZN-R7    | ADP1607 / ADP1607ACPZN001-R7 | ADP165 / ADP165ACPZN-1.2-R7  | ADP165 / ADP165ACPZN-1.8-R7  | ADP165 / ADP165ACPZN-2.3-R7  |
| ADP165 / ADP165ACPZN-3.0-R7  | ADP165 / ADP165ACPZN-3.3-R7  | ADP165 / ADP165ACPZN-R7      | ADP166 / ADP166ACPZN-1.2-R7  | ADP166 / ADP166ACPZN-1.8-R7  |
| ADP166 / ADP166ACPZN-2.3-R7  | ADP166 / ADP166ACPZN-3.0-R7  | ADP166 / ADP166ACPZN-3.3-R7  | ADP166 / ADP166ACPZN-R7      | ADP1877 / ADP1877ACPZ-R7     |
| ADP1878 / ADP1878ACPZ-0.3-R7 | ADP1878 / ADP1878ACPZ-0.6-R7 | ADP1878 / ADP1878ACPZ-1.0-R7 | ADP1879 / ADP1879ACPZ-0.3-R7 | ADP1879 / ADP1879ACPZ-0.6-R7 |
| ADP1879 / ADP1879ACPZ-1.0-R7 | ADP195 / ADP195ACPZ-R7       | ADP196 / ADP196ACPZN-01-R7   | ADP196 / ADP196ACPZN-21-R7   | ADP196 / ADP196ACPZN-22-R7   |
| ADP196 / ADP196ACPZN-31-R7   | ADP196 / ADP196ACPZN-32-R7   | ADP196 / ADP196ACPZN-R7      | ADP197 / ADP197ACPZN-01-R7   | ADP197 / ADP197ACPZN-02-R7   |
| ADP198 / ADP198ACPZ-R7       | ADP222 / ADP222ACPZ-1218-R7  | ADP222 / ADP222ACPZ-1228-R7  | ADP222 / ADP222ACPZ-1233-R7  | ADP222 / ADP222ACPZ-1528-R7  |
| ADP222 / ADP222ACPZ-1533-R7  | ADP222 / ADP222ACPZ-1815-R7  | ADP222 / ADP222ACPZ-1825-R7  | ADP222 / ADP222ACPZ-1827-R7  | ADP222 / ADP222ACPZ-1833-R7  |
| ADP222 / ADP222ACPZ-2725-R7  | ADP222 / ADP222ACPZ-2818-R7  | ADP222 / ADP222ACPZ-2827-R7  | ADP222 / ADP222ACPZ-3325-R7  | ADP222 / ADP222ACPZ-3328-R7  |
| ADP222 / ADP222ACPZ-3330-R7  | ADP223 / ADP223ACPZ-R7       | ADP224 / ADP224ACPZ-2818-R7  | ADP225 / ADP225ACPZ-R7       | ADP2384 / ADP2384ACPZN-R7    |
| ADP2386 / ADP2386ACPZN-R7    | ADP2387 / ADP2387ACPZN-R7    | ADP5589 / ADP5589ACPZ-00-R7  | ADP5589 / ADP5589ACPZ-01-R7  | ADP5589 / ADP5589ACPZ-02-R7  |
| ADP7118 / ADP7118ACPZN-R7    | ADP7118 / ADP7118ACPZN1.8-R7 | ADP7118 / ADP7118ACPZN2.5-R7 | ADP7118 / ADP7118ACPZN3.3-R7 | ADP7118 / ADP7118ACPZN5.0-R7 |

|                              |                              |                               |                               |                               |
|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|
| ADP7142 / ADP7142ACPZN-R7    | ADP7142 / ADP7142ACPZN1.8-R7 | ADP7142 / ADP7142ACPZN2.5-R7  | ADP7142 / ADP7142ACPZN3.3-R7  | ADP7142 / ADP7142ACPZN5.0-R7  |
| ADP7182 / ADP7182ACPZN-1.2R7 | ADP7182 / ADP7182ACPZN-1.5R7 | ADP7182 / ADP7182ACPZN-2.5R7  | ADP7182 / ADP7182ACPZN-5.0R7  | ADP7182 / ADP7182ACPZN-R7     |
| ADPD103 / ADPD103BCPZ        | ADPD103 / ADPD103BCPZRL      | ADPD2210 / ADPD2210ACPZ-R7    | ADPD2210 / ADPD2210ACPZ-RL    | ADRF6820 / ADRF6820HUAWEI-DIE |
| ADRF6820 / ADRF6820NSN-DIE   | ADUC7020 / ADUC7020BCPZ62I   | ADUC7020 / ADUC7020BCPZ62I-RL | ADUC7020 / ADUC7020BCPZ62IRL7 | ADUC7023 / ADUC7023FNS-DIE    |
| ADV7182 / ADW10017Z-0RL      | ADV7182 / ADW10017Z-0RL7     |                               |                               |                               |

**Removed Parts On All Revisions - Product Family / Model Number (4)**

|                       |                          |                       |                          |  |
|-----------------------|--------------------------|-----------------------|--------------------------|--|
| AD2401W / AD2401WCCSZ | AD2401W / AD2401WCCSZ-RL | AD2402W / AD2402WCCSZ | AD2402W / AD2402WCCSZ-RL |  |
|-----------------------|--------------------------|-----------------------|--------------------------|--|

**Appendix B - Revision History**

| <b>Rev</b> | <b>Publish Date</b> | <b>Effectivity Date</b> | <b>Rev Description</b>  |
|------------|---------------------|-------------------------|---|
| Rev. -     | 11-Feb-2016         | 11-May-2016             | Initial Release   |
| Rev. A     | 16-Mar-2016         | 14-Jun-2016             | Adding parts to this PCN  |
| Rev. B     | 06-May-2016         | 14-Jun-2016             | Added qualification results of commercial Mini-LFCSP and LFCSP devices.       |
| Rev. C     | 31-Jul-2016         | 14-Jun-2016             | Added Qualification Results Summary of Automotive LFCSP_SS (Side Solderable). |
| Rev. D     | 18-Oct-2016         | 18-Oct-2016             | Adding Test Correlation Summary Report and removing parts.                    |

Analog Devices, Inc.

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