



## Product/Process Change Notice - PCN 13\_0246 Rev. B

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:** Assembly and Test Transfer of Select 3x3, 4x4, 5x5 and 7x7 mm LFCSP Pre-plated Leadframe Products to STATS ChipPAC China

**Publication Date:** 25-Jun-2014

**Effectivity Date:** 07-Jul-2014 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Add Qualification Result Summary  
Add Test Correlation Report  
Added parts

### Description Of Change

ADI is transferring to subcontractor STATS ChipPAC China for the assembly and test manufacturing of ADI 3x3, 4x4, 5x5 and 7x7 mm LFCSP pre-plated leadframe products. 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 has been performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Qualification Report Summary.  
Test correlation has been performed and validated. Please see the attached list for the Test Correlation summary.

### Supporting Documents

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

ADI\_PCN\_13\_0246\_Rev\_B\_Qualification Result Summary.pdf

**Attachment 2: Type:** Test Correlation Report  
ADI\_PCN\_13\_0246\_Rev\_B\_Test Correlation Report 0612.pdf

**Attachment 3: Type:** Detailed Change Description  
ADI\_PCN\_13\_0246\_Rev\_B\_BOM.pptx

| 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 (9) |                                |                                |                           |                        |
| ADA4930-1 / ADA4930-1SCPZ-EPR2                     | ADA4930-1 / ADA4930-1SCPZ-EPR7 | ADA4930-1 / ADA4930-1SCPZ-EPRL | ADF7020 / AD45203Z-RL     | ADF7023 / AD57005Z-0RL |
| ADF7023 / ADF7023BCPZ                              | ADF7023 / ADF7023BCPZ-RL       | ADP2384 / ADP2384ACPZN-R7      | ADP2386 / ADP2386ACPZN-R7 |                        |

| Added Parts On This Revision - Product Family / Model Number (2) |                          |  |  |  |
|--|--------------------------|--|--|--|
| ADF7024 / ADF7024BCPZ  | ADF7024 / ADF7024BCPZ-RL |  |  |  |

| Appendix B - Revision History |              |                  |  |
|-------------------------------|--------------|------------------|--|
| Rev                           | Publish Date | Effectivity Date | Rev Description  |
| Rev. -                        | 07-Nov-2013  | 18-May-2014      | Initial Release  |
| Rev. A                        | 05-Dec-2013  | 18-May-2014      | Add 4x4 mm LFCSP parts   |
| Rev. B                        | 25-Jun-2014  | 07-Jul-2014      | Add Qualification Result Summary Add Test Correlation Report Added parts |
|                               |              |                  |  |

Analog Devices, Inc.

DocId:2929 Parent DocId:None Layout Rev:7

**Qualification Results Summary for  
LFCSP Package in NiPdAu Pre-plated Leadframe  
at STATS ChipPAC China (SCC)**

| QUALIFICATION RESULTS                      |                            |                  |                    |
|--|----------------------------|------------------|--------------------|
| Test                                       | Specifications             | Sample Size      | Result             |
| Temperature Cycle (TC)*                    | JEDEC <i>JESD22-A104</i>   | <b>3 x 77</b>    | <b>PASS</b>        |
| Solder Heat Resistance (SHR)*              | JEDEC/IPC <i>J-STD-020</i> | <b>3 x 11</b>    | <b>PASS</b>        |
| Low Temperature Storage (LTS)              | JEDEC <i>JESD22-A119</i>   | <b>3 x 77</b>    | <b>PASS</b>        |
| Field Induced Charged Device Model (FICDM) | JEDEC <i>JESD22-C101</i>   | <b>3/Voltage</b> | <b>PASS ±1250V</b> |

\*Preconditioned per JEDEC/IPC J-STD-020

| <b><u>FG Part Number</u></b> | <b><u>Test Correlation Status</u></b> |
|------------------------------|---------------------------------------|
| ADA4930-1SCPZ-EPR2           | Pass                                  |
| ADA4930-1SCPZ-EPR7           | Pass                                  |
| ADA4930-1SCPZ-EPRL           | Pass                                  |
| AD45203Z-RL                  | Pass                                  |
| AD57/005Z-ORL                | Pass                                  |
| ADF7023BCPZ                  | Pass                                  |
| ADF7023BCPZ-RL               | Pass                                  |
| ADP2384ACPZN-R7              | Pass                                  |
| ADP2386ACPZN-R7              | Pass                                  |
| ADF7024BCPZ                  | Pass                                  |
| ADF7024BCPZ-RL               | Pass                                  |