



Product/Process Change Notice - PCN 13_0223 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: Assembly and Test Transfer of Select 2x3mm and 3x3mm LFCSP Products to STATS ChipPAC China

Publication Date: 06-Aug-2014

Effectivity Date: 06-Aug-2014 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Update the Test Correlation Summary

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 has been performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Qualification Report Summary.

Test correlation and validation is completed. Please see the attached list for the Test Correlation summary.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

ADI_PCN_13_0223_Rev_C_Reliability Qualification Result .pdf

Attachment 2: Type: Test Correlation Report

ADI_PCN_13_0223_Rev_C_Test Correlation Device List 0422 .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	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 (181)

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 / AD800082-0RL7	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
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
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 (21)

ADG5401 / ADG5401BCPZ-U1	ADG5419 / ADG5419BCPZ-U1	ADG5421 / ADG5421BCPZ-U1	ADG5423 / ADG5423BCPZ-U1	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	ADP1880 / ADP1880ACPZ-R7	ADP2230 / ADP2230ACPZ-1218R7	ADP2230 / ADP2230ACPZ-1233R7	ADP2230 / ADP2230ACPZ-1833R7
ADP2230 / ADP2230ACPZ-R7				

Appendix B - Revision History			
Rev	Publish Date	Effectivity Date	Rev Description
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.
Rev. B	28-Apr-2014	18-May-2014	Remove parts. Include Qualification and Test Correlation Report Summary.
Rev. C	06-Aug-2014	06-Aug-2014	Update the Test Correlation Summary

Analog Devices, Inc.

DocId:3009 Parent DocId:None Layout Rev:7

<u>FG Part Name</u>	<u>Test Correlation Result</u>
AD5121BCPZ10-RL7	Pass
AD5121BCPZ100-RL7	Pass
AD5122ABCPZ10-RL7	Pass
AD5122ABCPZ100-RL7	Pass
AD5122BCPZ10-RL7	Pass
AD5122BCPZ100-RL7	Pass
AD5123BCPZ10-RL7	Pass
AD5123BCPZ100-RL7	Pass
AD5141BCPZ10-RL7	Pass
AD5141BCPZ100-RL7	Pass
AD5142ABCPZ10-RL7	Pass
AD5142ABCPZ100-RL7	Pass
AD5142BCPZ10-RL7	Pass
AD5142BCPZ100-RL7	Pass
AD5143BCPZ10-RL7	Pass
AD5143BCPZ100-RL7	Pass
AD5313RBCPZ-RL7	Pass
AD5316RBCPZ-RL7	Pass
AD5317RBCPZ-RL7	Pass
AD5338RBCPZ-RL7	Pass
AD5512AACPZ-500RL7	Pass
AD5512AACPZ-REEL7	Pass
AD5541AACPZ-REEL7	Pass
AD5541ABCPZ-1-RL7	Pass
AD5541ABCPZ-500RL7	Pass
AD5541ABCPZ-REEL7	Pass
AD5542AACPZ-REEL7	Pass
AD5542ABCPZ-1-RL7	Pass
AD5542ABCPZ-500RL7	Pass
AD5542ABCPZ-REEL7	Pass
AD5601BCPZ-RL7	Pass
AD5602BCPZ-2-RL7	Pass
AD5611ACPZ-RL7	Pass
AD5612ACPZ-2-RL7	Pass
AD5621ACPZ-RL7	Pass
AD5622ACPZ-2-RL7	Pass
AD5623HUAWEI-DIE	Pass
AD5623RACPZ-5REEL7	Pass
AD5623RBCPZ-3REEL7	Pass
AD5623RBCPZ-5REEL7	Pass
AD5624BCPZ-REEL7	Pass
AD5624RBCPZ-3REEL7	Pass
AD5624RBCPZ-5REEL7	Pass
AD5625RACPZ-REEL7	Pass
AD5641ACPZ-REEL7	Pass
AD5645RBCPZ-REEL7	Pass
AD5684BCPZ-RL7	Pass
AD5684RBCPZ-RL7	Pass
AD5685RBCPZ-RL7	Pass

AD5686ACPZ-RL7	Pass
AD5686BCPZ-RL7	Pass
AD5686RACPZ-RL7	Pass
AD5686RBCPZ-RL7	Pass
AD5687BCPZ-RL7	Pass
AD5687RBCPZ-RL7	Pass
AD5689BCPZ-RL7	Pass
AD5689RACPZ-RL7	Pass
AD5689RBCPZ-RL7	Pass
AD5694BCPZ-RL7	Pass
AD5694RBCPZ-RL7	Pass
AD5695RBCPZ-RL7	Pass
AD5696ACPZ-RL7	Pass
AD5696BCPZ-RL7	Pass
AD5696RACPZ-RL7	Pass
AD5696RBCPZ-RL7	Pass
AD5697RBCPZ-RL7	Pass
AD80/008Z-ORL7	Pass
AD8338ACPZ-R7	Pass
AD8338ACPZ-RL	Pass
AD8657ACPZ-R7	Pass
AD8657ACPZ-RL	Pass
AD9837ACPZ-RL	Pass
AD9837ACPZ-RL7	Pass
AD9837BCPZ-RL	Pass
AD9837BCPZ-RL7	Pass
ADA4084-2ACPZ-R7	Pass
ADA4084-2ACPZ-RL	Pass
ADA4096-4ACPZ-R7	Pass
ADA4096-4ACPZ-RL	Pass
ADA4500-2ACPZ-R7	Pass
ADA4500-2ACPZ-RL	Pass
ADA4528-1ACPZ-R7	Pass
ADA4528-1ACPZ-RL	Pass
ADA4528-2ACPZ-R7	Pass
ADA4528-2ACPZ-RL	Pass
ADA4638-1ACPZ-R7	Pass
ADA4638-1ACPZ-RL	Pass
ADA4661-2ACPZ-R7	Pass
ADA4661-2ACPZ-RL	Pass
ADA4666-2ACPZ-R7	Pass
ADA4666-2ACPZ-RL	Pass
ADA4960-1ACPZ-R7	Pass
ADA4960-1ACPZ-RL	Pass
ADCLK944BCPZ-R7	Pass
ADD5205ACPZ-RL	Pass
ADG4612BCPZ-REEL7	Pass
ADG4613BCPZ-REEL7	Pass
ADP1614ACPZ-1.3-R7	Pass
ADP1614ACPZ-650-R7	Pass

ADP1614ACPZ-R7	Pass
ADP1650ACPZ-R7	Pass
ADP1870ACPZ-0.3-R7	Pass
ADP1870ACPZ-0.6-R7	Pass
ADP1870ACPZ-1.0-R7	Pass
ADP1871ACPZ-0.3-R7	Pass
ADP1871ACPZ-0.6-R7	Pass
ADP1871ACPZ-1.0-R7	Pass
ADP2119ACPZ-1.0-R7	Pass
ADP2119ACPZ-1.2-R7	Pass
ADP2119ACPZ-1.5-R7	Pass
ADP2119ACPZ-1.8-R7	Pass
ADP2119ACPZ-2.5-R7	Pass
ADP2119ACPZ-3.3-R7	Pass
ADP2119ACPZ-R7	Pass
ADP2120ACPZ-1.0-R7	Pass
ADP2120ACPZ-1.2-R7	Pass
ADP2120ACPZ-1.5-R7	Pass
ADP2120ACPZ-1.8-R7	Pass
ADP2120ACPZ-2.5-R7	Pass
ADP2120ACPZ-3.3-R7	Pass
ADP2120ACPZ-R7	Pass
ADP2370ACPZ-1.2-R7	Pass
ADP2370ACPZ-1.5-R7	Pass
ADP2370ACPZ-1.8-R7	Pass
ADP2370ACPZ-2.5-R7	Pass
ADP2370ACPZ-3.0-R7	Pass
ADP2370ACPZ-3.3-R7	Pass
ADP2370ACPZ-5.0-R7	Pass
ADP2370ACPZ-R7	Pass
ADP2371ACPZ-1.2-R7	Pass
ADP2371ACPZ-1.8-R7	Pass
ADP2371ACPZ-3.3-R7	Pass
ADP2371ACPZ-R7	Pass
ADP2441ACPZ-R7	Pass
ADP2442ACPZ-R7	Pass
ADP320ACPZ-110-R7	Pass
ADP320ACPZ331815R7	Pass
ADP322ACPZ-115-R7	Pass
ADP322ACPZ-135-R7	Pass
ADP322ACPZ-145-R7	Pass
ADP322ACPZ-155-R7	Pass
ADP322ACPZ-165-R7	Pass
ADP322ACPZ-175-R7	Pass
ADP322ACPZ-189-R7	Pass
ADP323ACPZ-R7	Pass
ADP5585ACPZ-00-R7	Pass
ADP5585ACPZ-01-R7	Pass
ADP5585ACPZ-03-R7	Pass
ADP7102ACPZ-1.5-R7	Pass

ADP7102ACPZ-1.8-R7	Pass
ADP7102ACPZ-2.5-R7	Pass
ADP7102ACPZ-3.0-R7	Pass
ADP7102ACPZ-3.3-R7	Pass
ADP7102ACPZ-5.0-R7	Pass
ADP7102ACPZ-9.0-R7	Pass
ADP7102ACPZ-R7	Pass
ADP7104ACPZ-1.5-R7	Pass
ADP7104ACPZ-1.8-R7	Pass
ADP7104ACPZ-2.5-R7	Pass
ADP7104ACPZ-3.0-R7	Pass
ADP7104ACPZ-3.3-R7	Pass
ADP7104ACPZ-5.0-R7	Pass
ADP7104ACPZ-9.0-R7	Pass
ADP7104ACPZ-R7	Pass
ADP7105ACPZ-1.8-R7	Pass
ADP7105ACPZ-3.3-R7	Pass
ADP7105ACPZ-5.0-R7	Pass
ADP7105ACPZ-R7	Pass
ADP7182ACPZ-5.0-R7	Pass
ADP7182ACPZ-R7	Pass