



Product/Process Change Notice - PCN 13_0244 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 2x2 and 1.6x1.6 mm Mini-LFCSP Products to STATS ChipPAC China

Publication Date: 30-Jun-2014

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

Revision Description:

Add parts and Test Correlation Report status

Description Of Change

ADI is transferring to subcontractor STATS ChipPAC China for the assembly and test manufacturing of select 2x2 and 1.6x1.6 mm Mini-LFCSP 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 and validation is in process. Please see the attached list for the Test Correlation summary.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

ADI_PCN_13_0244_Rev_B_Qualification Results Summary.pdf

Attachment 2: Type: Test Correlation Report

Attachment 3: Type: Detailed Change Description
ADI_PCN_13_0244_Rev_B_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 (106)

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	AD5691R / AD5691RACPZ-1RL7	AD5691R / AD5691RBCPZ-RL7	AD5692R / AD5692RACPZ-RL7	AD5693 / AD5693BCPZ-RL7
AD5693R / AD5693RACPZ-1-U1	AD5693R / AD5693RACPZ-2-U1	AD5693R / AD5693RACPZ-RL7	AD7091 / AD7091BCPZ-RL	AD7091 / AD7091BCPZ-RL7
ADA4096-2 / ADA4096-2ACPZ-R7	ADA4096-2 / ADA4096-2ACPZ-RL	ADA4800 / ADA4800ACPZ-R7	ADA4800 / ADA4800ACPZ-RL	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	ADP1607 / ADP1607ACPZN-R7	ADP1607 / ADP1607ACPZN001-R7	ADP195 / ADP195ACPZ-R7
ADP196 / ADP196ACPZN-01-R7	ADP196 / ADP196ACPZN-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				

Added Parts On This Revision - Product Family / Model Number (13)

AD5681R / AD5681RBCPZ-1RL	AD5681R / AD5681RBCPZ-1RL7	AD5681R / AD5681RBCPZ-RL	AD5681R / AD5681RBCPZ-RL7	AD5682R / AD5682RBCPZ-RL
AD5682R / AD5682RBCPZ-RL7	AD5683 / AD5683BCPZ-RL7	AD5683R / AD5683RACPZ-1RL7	AD5683R / AD5683RACPZ-2RL7	AD5683R / AD5683RACPZ-RL7
AD5693R / AD5693RACPZ-1RL7	AD5693R / AD5693RACPZ-2RL7	AD5693R / AD5693RBCPZ-2RL7		

Appendix B - Revision History			
Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	13-Nov-2013	18-May-2014	Initial Release
Rev. A	13-May-2014	18-May-2014	Add parts Update to include completed Qualification Report and partially complete Test Correlation Report Summary
Rev. B	30-Jun-2014	07-Jul-2014	Add parts and Test Correlation Report status

Analog Devices, Inc.

DocId:2928 Parent DocId:None Layout Rev:7

Qualification Results Summary for LFCSP Package at STATS ChipPAC China (SCC)

QUALIFICATION RESULTS			
Test	Conditions	Sample Size	Result
Highly Accelerated Stress Test (HAST)*	JEDEC <i>JESD22-A110</i>	3 x 77	PASS
Temperature Cycle (TC)*	JEDEC <i>JESD22-A104</i>	3 x 77	PASS
Autoclave (AC)*	JEDEC <i>JESD22-A102</i>	3 x 77	PASS
Solder Heat Resistance (SHR)*	JEDEC/IPC <i>J-STD-020</i>	3 x 11	PASS
High Temperature Storage Life (HTSL)	JEDEC <i>JESD22-A103</i>	1 x 77	PASS
Field Induced Charged Device Model (FICDM)	JEDEC <i>JESD22-C101</i>	3/Voltage	PASS ±1250V

*Preconditioned per JEDEC/IPC J-STD-020

<u>FG Part Number</u>	<u>Test Correlation Status</u>
AD5110BCPZ10-1-RL7	Passed
AD5110BCPZ10-500R7	Passed
AD5110BCPZ10-RL7	Passed
AD5110BCPZ80-1-RL7	Passed
AD5110BCPZ80-500R7	Passed
AD5110BCPZ80-RL7	Passed
AD5111BCPZ10-500R7	Passed
AD5111BCPZ10-RL7	Passed
AD5111BCPZ80-500R7	Passed
AD5111BCPZ80-RL7	Passed
AD5112BCPZ10-1-RL7	Passed
AD5112BCPZ10-500R7	Passed
AD5112BCPZ10-RL7	Passed
AD5112BCPZ5-1-RL7	Passed
AD5112BCPZ5-500R7	Passed
AD5112BCPZ5-RL7	Passed
AD5112BCPZ80-1-RL7	Passed
AD5112BCPZ80-500R7	Passed
AD5112BCPZ80-RL7	Passed
AD5113BCPZ10-500R7	Passed
AD5113BCPZ10-RL7	Passed
AD5113BCPZ5-500R7	Passed
AD5113BCPZ5-RL7	Passed
AD5113BCPZ80-500R7	Passed
AD5113BCPZ80-RL7	Passed
AD5114BCPZ10-1-RL7	Passed
AD5114BCPZ10-500R7	Passed
AD5114BCPZ10-RL7	Passed
AD5114BCPZ80-1-RL7	Passed
AD5114BCPZ80-500R7	Passed
AD5114BCPZ80-RL7	Passed
AD5115BCPZ10-500R7	Passed
AD5115BCPZ10-RL7	Passed
AD5115BCPZ80-500R7	Passed
AD5115BCPZ80-RL7	Passed
AD5116BCPZ10-500R7	Passed
AD5116BCPZ10-RL7	Passed
AD5116BCPZ5-500R7	Passed
AD5116BCPZ5-RL7	Passed
AD5116BCPZ80-500R7	Passed
AD5116BCPZ80-RL7	Passed
AD5693RACPZ-1-U1	Complete by early of July
AD5693RACPZ-2-U1	Complete by early of July
AD7091BCPZ-RL	Complete by early of July
AD7091BCPZ-RL7	Complete by early of July
ADA4096-2ACPZ-R7	Passed
ADA4096-2ACPZ-RL	Passed

ADA4800ACPZ-R7	Passed
ADA4800ACPZ-RL	Passed
ADM7160ACPZN1.8-R2	Passed
ADM7160ACPZN1.8-R7	Passed
ADM7160ACPZN2.5-R2	Passed
ADM7160ACPZN2.5-R7	Passed
ADM7160ACPZN3.3-R2	Passed
ADM7160ACPZN3.3-R7	Passed
ADP122ACPZ-1.8-R7	Passed
ADP122ACPZ-2.0-R7	Passed
ADP122ACPZ-2.5-R7	Passed
ADP122ACPZ-2.6-R7	Passed
ADP122ACPZ-2.8-R7	Passed
ADP122ACPZ-3.0-R7	Passed
ADP122ACPZ-3.3-R7	Passed
ADP123ACPZ-R7	Passed
ADP124ACPZ-1.8-R7	Passed
ADP124ACPZ-2.8-R7	Passed
ADP124ACPZ-2.9-R7	Passed
ADP124ACPZ-3.0-R7	Passed
ADP124ACPZ-3.3-R7	Passed
ADP125ACPZ-R7	Passed
ADP151ACPZ-1.2-R7	Passed
ADP151ACPZ-1.5-R7	Passed
ADP151ACPZ-1.8-R7	Passed
ADP151ACPZ-2.5-R7	Passed
ADP151ACPZ-2.7-R7	Passed
ADP151ACPZ-2.8-R7	Passed
ADP151ACPZ-3.0-R7	Passed
ADP151ACPZ-3.3-R7	Passed
ADP1607ACPZN-R7	Passed
ADP1607ACPZN001-R7	Passed
ADP195ACPZ-R7	Passed
ADP196ACPZN-01-R7	Passed
ADP196ACPZN-R7	Passed
ADP198ACPZ-R7	Passed
ADP222ACPZ-1218-R7	Passed
ADP222ACPZ-1228-R7	Passed
ADP222ACPZ-1233-R7	Passed
ADP222ACPZ-1528-R7	Passed
ADP222ACPZ-1533-R7	Passed
ADP222ACPZ-1815-R7	Passed
ADP222ACPZ-1825-R7	Passed
ADP222ACPZ-1827-R7	Passed
ADP222ACPZ-1833-R7	Passed
ADP222ACPZ-2725-R7	Passed
ADP222ACPZ-2818-R7	Passed
ADP222ACPZ-2827-R7	Passed
ADP222ACPZ-3325-R7	Passed
ADP222ACPZ-3328-R7	Passed

ADP222ACPZ-3330-R7	Passed
ADP223ACPZ-R7	Passed
ADP224ACPZ-2818-R7	Passed
ADP225ACPZ-R7	Passed
AD5691RACPZ-1RL7	Complete by early of July
AD5691RBCPZ-RL7	Complete by early of July
AD5692RACPZ-RL7	Complete by early of July
AD5693BCPZ-RL7	Complete by early of July
AD5693RACPZ-RL7	Complete by early of July
AD5681RBCPZ-1RL	Complete by early of July
AD5681RBCPZ-1RL7	Complete by early of July
AD5681RBCPZ-RL	Complete by early of July
AD5681RBCPZ-RL7	Complete by early of July
AD5682RBCPZ-RL	Complete by early of July
AD5682RBCPZ-RL7	Complete by early of July
AD5683BCPZ-RL7	Complete by early of July
AD5683RACPZ-1RL7	Complete by early of July
AD5683RACPZ-2RL7	Complete by early of July
AD5683RACPZ-RL7	Complete by early of July
AD5693RACPZ-1RL7	Complete by early of July
AD5693RACPZ-2RL7	Complete by early of July
AD5693RBCPZ-2RL7	Complete by early of July