



## Product/Process Change Notice - PCN 11\_0175 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:** Shipping Changes for WLCSP Products with 8mm Carrier Tape Width

**Publication Date:** 28-Feb-2012

**Effectivity Date:** 28-May-2012 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Include additional WLCSP R7 parts.

### Description Of Change

ADI is making the following shipping improvements for all WLCSP products with 8mm carrier tape width.

Additional Bubble Pack Insulator, Adjustment of Plastic Reel Hub (from 2.4 to 4.0 hub), and Removal of Banding Tape for all Wafer Level parts with 8mm carrier tape width for reel 7" only.

Rev A

Note: The parts from PCN11\_0175 Rev- will maintain original effectivity date of 04-Oct-2011.

Rev B

Note: The parts from PCN11\_0175 RevA will maintain original effectivity date of 04-Oct-2011. Added parts will have the standard 90 day effectivity.

### Reason For Change

ADI is incorporating change to improve manufacturability and implement standardization of packaging materials.

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

This change does not affect fit, form, function or reliability of the products.

### Summary of Supporting Information

See attached Qualification Report Summary and Evaluation Results Report.

### Supporting Documents

**Attachment 1:** Type: Qualification Report Summary

ADI\_PCN\_11\_0175\_Rev\_B\_Qualification Report.doc

**Attachment 2:** Type: Detailed Parts List

ADI\_PCN\_11\_0175\_Rev\_B\_WLT\_CATALOGS not included on PCN.xls

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 (201)

AD5398 / AD5398BCBZ-REEL7	AD5398A / AD5398ABCBZ-REEL7	AD5628 / AD5628BCBZ-1-RL7	AD5668 / AD5668BCBZ-1-RL7	AD5805 / AD5805BCBZ-REEL7
AD5806 / AD5806-1BCBZ-RL7	AD5806 / AD5806-2BCBZ-RL7	AD5806 / AD5806BBCBZ-REEL7	AD5807 / AD5807-1BCBZ-REEL7	AD5807 / AD5807-1BCBZ-U1
AD5807 / AD5807BCBZ-REEL7	AD5807 / AD5807BCBZ-U2	AD5807A / AD5807ABCBZ-RL7	AD5810 / AD5810BCBZ-REEL7	AD5810 / AD5810BCBZ-U3
AD5811 / AD5811-1BCDZ-RL7	AD5811 / AD5811BCDZ-RL7	AD5811 / AD5811BCDZ-U5	AD5811 / AD5811BCNZ-RL7	AD5811 / AD5811BCNZ-U5
AD5815 / AD5815-1BCDZ-RL7	AD5815 / AD5815-1BCDZ-U2	AD5815 / AD5815BCDZ-RL7	AD5815 / AD5815BCDZ-U2	AD5816 / AD5816-1BCDZ-RL7
AD5816 / AD5816-1BCDZ-U3	AD5816 / AD5816BBCDZ-RL7	AD5816 / AD5816BBCDZ-U3	AD5816 / AD5816BCDZ-RL7	AD5816 / AD5816BCDZ-U3
AD5817 / AD5817BCDZ-RL7	AD5817 / AD5817BCNZ-RL7	AD5817 / AD5817DBCNDZ-RL7	AD5817 / AD5817DBCNDZ-U4	AD5817 / AD5817DBCNZ-U4
AD5819 / AD5819BCBZ-REEL7	AD5819 / AD5819BCBZ-U1	AD5819B / AD5819BBCBZ-REEL7	AD5820 / AD11/2080Z-RL7	AD5820 / AD5820-1BCBZ-REEL7
AD5820 / AD5820BCBZ-REEL7	AD58201 / AD58201BCBZ-RL7	AD58201 / AD58201BCBZ-U1	AD58202 / AD58202BCBZ-1-RL7	AD58202 / AD58202BCBZ-1-U1
AD58203 / AD58203BCBZ-RL7	AD58203 / AD58203BCBZ-U1	AD58205 / AD58205BCBZ-RL7	AD58205 / AD58205BCBZ-U1	AD5821 / AD5821BCBZ-REEL7
AD5821A / AD5821ABCBZ-REEL7	AD5822 / AD5822BCBZ-1-REEL7	AD5822 / AD5822BCBZ-REEL7	AD5823 / AD5823BCDZ-RL7	AD5824B / AD5824BBCBZ-REEL7
AD5826 / AD5826BCBZ-REEL7	AD5827 / AD5827BCBZ-REEL7	AD5839 / AD5839BCDZ-RL7	AD7147A / AD7147A-1ACBZ500R7	AD7147A / AD7147AACBZ-500RL7
AD7149 / AD7149-1ACBZ-RL7	AD7149 / AD7149-1ACBZ-U1	AD7149 / AD7149ACBZ-RL7	AD7879 / AD7879-1ACBZ-500R7	AD7879 / AD7879ACBZ-500R7
AD7889 / AD7889-1ACBZ-500R7	AD7889 / AD7889-1ACBZ-RL7	AD7889 / AD7889ACBZ-500R7	AD8235 / AD8235ACBZ-P7	AD8311 / AD45111Z-P2
AD8311 / AD45111Z-P7	AD8311 / AD8311ACBZ-P2	AD8311 / AD8311ACBZ-P7	AD8312 / AD8312ACBZ-P2	AD8312 / AD8312ACBZ-P7
AD8506 / AD8506ACBZ-REEL7	AD8508 / AD8508ACBZ-REEL7	AD8605 / AD8605ACBZ-REEL7	AD8606 / AD8606ACBZ-REEL7	AD9394 / AD9394BCBZ-R7
ADA4505-2 / ADA4505-2ACBZ-R7	ADA4691-2 / ADA4691-2ACBZ-R7	ADG3304 / ADG3304BCBZ-REEL7	ADG3308-1 / ADG3308BCBZ-1-RL7	ADG787 / ADG787BCBZ-500RL7
ADG787 / ADG787BCBZ-REEL7	ADG884 / ADG884BCBZ-REEL7	ADG888 / ADG888BCBZ-REEL7	ADL5500 / ADL5500ACBZ-P7	ADP151 / ADP151ACBZ-1.1-R7
ADP151 / ADP151ACBZ-2.6-R7	ADP162 / ADP162ACBZ-1.2-R7	ADP162 / ADP162ACBZ-1.8-R7	ADP162 / ADP162ACBZ-2.1-R7	ADP162 / ADP162ACBZ-2.8-R7
ADP162 / ADP162ACBZ-3.0-R7	ADP162 / ADP162ACBZ-4.2-R7	ADP1650 / ADP1650ACBZ-R7	ADP1654 / ADP1654ACBZ-R7	ADP1655 / ADP16550001ACBZR
ADP1655 / ADP1655ACBZ-R7	ADP172 / ADP172ACBZ-1.0-R7	ADP172 / ADP172ACBZ-1.2-R7	ADP172 / ADP172ACBZ-1.26-R7	ADP172 / ADP172ACBZ-1.5-R7
ADP172 / ADP172ACBZ-1.8-R7	ADP172 / ADP172ACBZ-2.1-R7	ADP172 / ADP172ACBZ-3.0-R7	ADP194 / ADP194ACBZ-R7	ADP195 / ADP195ACBZ-R7
ADP199 / ADP199XCBZ-R7	ADP2108 / ADP2108ACBZ-1.0-R7	ADP2108 / ADP2108ACBZ-1.1-R7	ADP2108 / ADP2108ACBZ-1.2-R7	ADP2108 / ADP2108ACBZ-1.3-R7
ADP2108 / ADP2108ACBZ-1.5-R7	ADP2108 / ADP2108ACBZ-1.8-R7	ADP2108 / ADP2108ACBZ-1.82R7	ADP2108 / ADP2108ACBZ-2.3-R7	ADP2108 / ADP2108ACBZ-2.5-R7
ADP2108 / ADP2108ACBZ-3.0-R7	ADP2108 / ADP2108ACBZ-3.3-R7	ADP2109 / ADP2109ACBZ-1.0-R7	ADP2109 / ADP2109ACBZ-1.2-R7	ADP2109 / ADP2109ACBZ-1.5-R7
ADP2109 / ADP2109ACBZ-1.8-R7	ADP2121 / ADP2121ACBZ-1.8-R7	ADP2121 / ADP2121ACBZ-1.82R7	ADP2121 / ADP2121ACBZ-1.85R7	ADP2121 / ADP2121ACBZ-1875R7
ADP2121 / ADP2121ACBZ-2.3-R7	ADP2125 / ADP2125ACDZ-1.20R7	ADP2125 / ADP2125ACDZ-1.26R7	ADP2125 / ADP2125BCDZ-1.20R7	ADP2125 / ADP2125BCDZ-1.26R7
ADP2126 / ADP2126ACDZ-1.20R7	ADP2126 / ADP2126ACDZ-1.26R7	ADP2127 / ADP2127ACNZ-1.20R7	ADP2127 / ADP2127ACNZ-1.26U1	ADP2127 / ADP2127ACNZ-1.260R7
ADP2138 / ADP2138ACBZ-0.8-R7	ADP2138 / ADP2138ACBZ-1.0-R7	ADP2138 / ADP2138ACBZ-1.2-R7	ADP2138 / ADP2138ACBZ-1.5-R7	ADP2138 / ADP2138ACBZ-1.8-R7
ADP2138 / ADP2138ACBZ-2.5-R7	ADP2138 / ADP2138ACBZ-2.8-R7	ADP2138 / ADP2138ACBZ-3.0-R7	ADP2138 / ADP2138ACBZ-3.3-R7	ADP2139 / ADP2139ACBZ-0.8-R7
ADP2139 / ADP2139ACBZ-1.0-R7	ADP2139 / ADP2139ACBZ-1.2-R7	ADP2139 / ADP2139ACBZ-1.5-R7	ADP2139 / ADP2139ACBZ-1.8-R7	ADP2139 / ADP2139ACBZ-2.5-R7
ADP2139 / ADP2139ACBZ-2.8-R7	ADP2139 / ADP2139ACBZ-3.0-R7	ADP2139 / ADP2139ACBZ-3.3-R7	ADP2147 / ADP2147ACBZ-110-R7	ADP2147 / ADP2147ACBZ-130-R7
ADP2147 / ADP2147ACBZ-150-R7	ADP2147 / ADP2147ACBZ-170-R7	ADP220 / ADP220ACBZ-1118R7	ADP220 / ADP220ACBZ-1812R7	ADP220 / ADP220ACBZ-1827R7
ADP220 / ADP220ACBZ-26235R7	ADP220 / ADP220ACBZ-2623R7	ADP220 / ADP220ACBZ-2812R7	ADP220 / ADP220ACBZ-2818R7	ADP220 / ADP220ACBZ-2827R7
ADP220 / ADP220ACBZ-2828R7	ADP220 / ADP220ACBZ-3033R7	ADP220 / ADP220ACBZ275275R7	ADP221 / ADP221ACBZ2828-R7	ADP5022 / ADP5022ACBZ-1-R7
ADP5022 / ADP5022ACBZ-2-R7	ADP5022 / ADP5022ACBZ-4-R7	ADP5022 / ADP5022ACBZ-6-R7	ADP5030 / ADP5030ACBZ-1228R7	ADP5032 / ADP5032ACBZ-1-R7
ADP5033 / ADP5033ACBZ-1-R7	ADP5036 / ADP5036ACBZ-1-R7	ADP5587 / ADP5587ACBZ-R7	ADP8860 / ADP8860ACBZ-R7	ADP8861 / ADP8861ACBZ-R7
ADP8863 / ADP8863ACBZ-R7	ADP8870 / ADP8870ACBZ-R7	ADT7312 / ADT7312WCZ-PT7	OP482 / OP482ACBZ-R7	SSM2311 / SSM2311CBZ-REEL7
SSM2315 / SSM2315CBZ-REEL7	SSM2317 / SSM2317CBZ-REEL7	SSM2319 / SSM2319CBZ-REEL7	SSM2335 / SSM2335CBZ-REEL7	SSM2356 / SSM2356CBZ-RL7
SSM2375 / SSM2375CBZ-REEL7	SSM2377 / SSM2377ACBZ-R7	SSM2380 / SSM2380CBZ-REEL7	SSM2517 / SSM2517CBZ-R7	SSM2518 / SSM2518CBZ-R7
SSM2519 / SSM2519ACBZ-R7				

## Added Parts On This Revision - Product Family / Model Number (101)

AD5804 / AD5804BCDZ-RL	AD5804 / AD5804BCDZ-RL7	AD5811 / AD5811-1BCNZ-RL	AD5811 / AD5811-1BCNZ-RL7	AD5816 / AD5816BCNZ-RL
AD5816 / AD5816BCNZ-RL7	AD5816 / AD5816D-1BCDZ-RL7	AD5816 / AD5816D-1BCDZ-U4	AD5816 / AD5816DBBCDZ-RL7	AD5816 / AD5816DBBCDZ-U4
AD5816 / AD5816DBCDZ-RL7	AD5816 / AD5816DBCNZ-RL7	AD5817 / AD5817DBCNZ-RL	AD5817 / AD5817DBCNZ-RL7	AD58204 / AD58204BCBZ-1-RL

AD58204 / AD58204BCBZ-1-RL7	AD58204 / AD58204BCBZ-1-U1	AD5823 / AD5823BCDZ-RL	AD5823 / AD5823BCDZ-RL7	AD5823 / AD5823BCDZ-U1
AD5823-1 / AD5823-1BCDZ-RL	AD5823-1 / AD5823-1BCDZ-RL7	AD5830 / AD5830BCBZ-REEL	AD5830 / AD5830BCBZ-REEL7	AD5831 / AD5831BCBZ-REEL
AD5831 / AD5831BCBZ-REEL7	AD5836 / AD5836BCDZ-REEL	AD5836 / AD5836BCDZ-REEL7	AD7146 / AD7146-1ACBZ-RL7	AD8505 / AD8505ACBZ-R7
AD8505 / AD8505ACBZ-RL	AD8694 / AD8694WAC-P7	ADA4505-1 / ADA4505-1ACBZ-R7	ADA4505-1 / ADA4505-1ACBZ-RL	ADP120 / ADP120-ACBZ12R7
ADP120 / ADP120-ACBZ15R7	ADP120 / ADP120-ACBZ18R7	ADP120 / ADP120-ACBZ25R7	ADP120 / ADP120-ACBZ28R7	ADP120 / ADP120-ACBZ30R7
ADP121 / ADP121-ACBZ12R7	ADP121 / ADP121-ACBZ155R7	ADP121 / ADP121-ACBZ15R7	ADP121 / ADP121-ACBZ16R7	ADP121 / ADP121-ACBZ175R7
ADP121 / ADP121-ACBZ17R7	ADP121 / ADP121-ACBZ188R7	ADP121 / ADP121-ACBZ18R7	ADP121 / ADP121-ACBZ20R7	ADP121 / ADP121-ACBZ25R7
ADP121 / ADP121-ACBZ278R7	ADP121 / ADP121-ACBZ28R7	ADP121 / ADP121-ACBZ29R7	ADP121 / ADP121-ACBZ30R7	ADP121 / ADP121-ACBZ33R7
ADP150 / ADP150ACBZ-1.8-R7	ADP150 / ADP150ACBZ-2.5-R7	ADP150 / ADP150ACBZ-2.6-R7	ADP150 / ADP150ACBZ-2.75R7	ADP150 / ADP150ACBZ-2.8-R7
ADP150 / ADP150ACBZ-2.85R7	ADP150 / ADP150ACBZ-3.0-R7	ADP150 / ADP150ACBZ-3.3-R7	ADP151 / ADP151ACBZ-1.2-R7	ADP151 / ADP151ACBZ-1.5-R7
ADP151 / ADP151ACBZ-1.8-R7	ADP151 / ADP151ACBZ-2.1-R7	ADP151 / ADP151ACBZ-2.5-R7	ADP151 / ADP151ACBZ-2.75-R7	ADP151 / ADP151ACBZ-2.8-R7
ADP151 / ADP151ACBZ-2.85-R7	ADP151 / ADP151ACBZ-3.0-R7	ADP151 / ADP151ACBZ-3.3-R7	ADP160 / ADP160ACBZ-1.2-R7	ADP160 / ADP160ACBZ-1.5-R7
ADP160 / ADP160ACBZ-1.8-R7	ADP160 / ADP160ACBZ-2.1-R7	ADP160 / ADP160ACBZ-2.5-R7	ADP160 / ADP160ACBZ-2.75-R7	ADP160 / ADP160ACBZ-2.8-R7
ADP160 / ADP160ACBZ-2.85-R7	ADP160 / ADP160ACBZ-3.0-R7	ADP160 / ADP160ACBZ-3.3-R7	ADP160 / ADP160ACBZ-4.2-R7	ADP172 / ADP172ACBZ-2.9-R7
ADP190 / ADP190ACBZ-R7	ADP191 / ADP191ACBZ-R7	ADP198 / ADP198ACBZ-11-R7	ADP198 / ADP198ACBZ-R7	ADP220 / ADP220ACBZ-1212R7
ADP220 / ADP220ACBZ-2525R7	ADP5033 / ADP5033ACBZ-2-R7	ADP5061 / ADP5061ACBZ-U2	ADP5061 / ADP5061XCBZ-1-R7	ADP5061 / ADP5061XCBZ-2-R7
ADP5061 / ADP5061XCBZ-3-R7	ADP5589 / ADP5589ACBZ-00-R7	ADP5589 / ADP5589ACBZ-01-R7	ADP5589 / ADP5589ACBZ-02-R7	SSM2932 / SSM2932ACBZ-R7
SSM2932 / SSM2932ACBZ-RL				

**Removed Parts On All Revisions - Product Family / Model Number (75)**

AD5398 / AD5398BCBZ-REEL	AD5398A / AD5398ABCBZ-REEL	AD5805 / AD5805BCBZ-REEL	AD5806 / AD5806-1BBCBZ-RL	AD5806 / AD5806-2BBCBZ-RL
AD5806 / AD5806BBCBZ-REEL	AD5807 / AD5807-1BCBZ-REEL	AD5807 / AD5807BCBZ-REEL	AD5807A / AD5807ABCBZ-RL	AD5810 / AD5810BCBZ-REEL
AD5811 / AD5811-1BCDZ-RL	AD5811 / AD5811BCDZ-RL	AD5811 / AD5811BCNZ-RL	AD5815 / AD5815-1BCDZ-RL	AD5815 / AD5815BCDZ-RL
AD5816 / AD5816-1BCDZ-RL	AD5816 / AD5816BBCDZ-RL	AD5816 / AD5816BCDZ-RL	AD5817 / AD5817BCDZ-RL	AD5817 / AD5817BCNZ-RL
AD5817 / AD5817BCDZ-RL	AD5819 / AD5819BCBZ-REEL	AD5819B / AD5819BBCBZ-REEL	AD5820 / AD5820-1BCBZ-REEL	AD5820 / AD5820BCBZ-REEL
AD58201 / AD58201BCBZ-RL	AD58202 / AD58202BCBZ-1-RL	AD58203 / AD58203BCBZ-RL	AD58205 / AD58205BCBZ-RL	AD5821 / AD5821BCBZ-REEL
AD5821A / AD5821ABCBZ-REEL	AD5822 / AD5822BCBZ-1-REEL	AD5822 / AD5822BCBZ-REEL	AD5823 / AD5823BCDZ-RL	AD5824B / AD5824BBCBZ-REEL
AD5826 / AD5826BCBZ-REEL	AD5827 / AD5827BCBZ-REEL	AD5839 / AD5839BCDZ-RL	AD7147A / AD7147A-1ACBZ-RL	AD7147A / AD7147AACBZ-RL
AD7149 / AD7149-1ACBZ-RL	AD7149 / AD7149ACBZ-RL	AD7879 / AD7879-1ACBZ-RL	AD7879 / AD7879ACBZ-RL	AD7889 / AD7889-1ACBZ-RL
AD7889 / AD7889ACBZ-RL	AD8506 / AD8506ACBZ-REEL	AD8508 / AD8508ACBZ-REEL	AD8605 / AD8605ACBZ-REEL	AD8606 / AD8606ACBZ-REEL
ADA4505-2 / ADA4505-2ACBZ-RL	ADA4691-2 / ADA4691-2ACBZ-RL	ADG3304 / ADG3304BCBZ-REEL	ADG3308-1 / ADG3308BCBZ-1-REEL	ADG787 / ADG787BCBZ-REEL
ADG789 / AD15/145Z-0REEL	ADG790 / ADG790BCBZ-REEL	ADG790 / ADG790BCBZ-U1REEL	ADG884 / ADG884BCBZ-REEL	ADG888 / ADG888BCBZ-REEL
ADP5022 / ADP50220003ACBZR	ADP5022 / ADP50220005ACBZR	OP482 / OP482ACBZ-RL	SSM2311 / SSM2311CBZ-REEL	SSM2315 / SSM2315CBZ-REEL
SSM2317 / SSM2317CBZ-REEL	SSM2319 / SSM2319CBZ-REEL	SSM2335 / SSM2335CBZ-REEL	SSM2356 / SSM2356CBZ-RL	SSM2375 / SSM2375CBZ-REEL
SSM2377 / SSM2377ACBZ-RL	SSM2380 / SSM2380CBZ-REEL	SSM2517 / SSM2517CBZ-RL	SSM2518 / SSM2518CBZ-RL	SSM2519 / SSM2519ACBZ-RL

**Appendix B - Revision History**

Rev	Publish Date	Rev Description
Rev. -	07-Jul-2011	Initial Release
Rev. A	29-Sep-2011	1. Correction to the Description of Change. Remove (from 4.4 to 4 hub) and replace it with (from 2.4 to 4.0 hub). 2. Remove all reel 13" parts on the lists.
Rev. B	28-Feb-2012	Include additional WLCSP R7 parts.