



## Product/Process Change Notice - PCN 09\_0156 Rev. -

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.

**PCN Title:** Moisture Sensitivity Level (MSL) change for select devices packaged in 7x7mm, 8x8mm, and 9x9mm LFCSP packages. Introduction of new models on all affected devices indicated by a revision letter in the model part number.

**Publication Date:** 21-Aug-2009

**Samples Available Date:** See attached.

**Effectivity Date:** 21-Aug-2009 (*the earliest date that a customer could expect to receive changed material*)

### Description Of Change

From: MSL3, 260C  
To: MSL6, 240C

ADI is downgrading the MSL on certain affected devices included in the material list from level 3 to level 6. ADI is also recommending customers limit their peak reflow to 240 C maximum. This PCN also serves as notification of 'A' revision devices which return the moisture sensitivity status to MSL3 260 C on the 'A' revision.

ADI is releasing an improved material set on all affected devices which will return the MSL level to MSL3, 260C. The new material sets will be indicated by a revision A letter in the part number. Customers are encouraged to migrate to the revision A devices as they become available.

### Reason For Change

The moisture sensitivity of certain devices in the LFCSP package does not meet the MSL3, 260C criteria as originally published.

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

Devices with an MSL6 rating should be mounted and reflowed within 12 hours after opening the sealed moisture barrier bag. Devices exceeding the exposure limit in shipping trays can be restored with a 3 hour, 125C oven bake and devices in tape and reel can be restored with a 168 hours, 40C oven bake.

The A revision devices are identical in form, fit, and function with the existing package except for the dimension of the exposed pad. The changes are outlined as follows (see list of devices for detail by device):

CP48-1 to CP48-8: 5.10 to 5.50 mm sq nominal  
CP48-3 to CP48-1: 4.10 to 5.10 mm sq nominal  
CP64-1 to CP64-7: 4.70 to 5.21 mm sq nominal  
CP64-3 to CP64-6: 7.10 to 7.50 mm sq nominal

### Product Identification (*this section will describe how to identify the changed material*)

See product list attached. New models will be signified with the revision letter A in the product number.

### Summary of Supporting Information

Product list and package outline drawings.

### Comments

Customers are encouraged to migrate to the A revisions of all affected products.

### Supporting Documents

**Attachment 1:** ADI\_PCN\_09\_0156\_Rev\_-\_PCN Product List.xlsx

**Attachment 2:** ADI\_PCN\_09\_0156\_Rev\_-\_CP\_48\_1.pdf

**Attachment 3:** ADI\_PCN\_09\_0156\_Rev\_-\_CP\_48\_3.pdf

**Attachment 4:** ADI\_PCN\_09\_0156\_Rev\_-\_CP\_48\_8.pdf

**Attachment 5:** ADI\_PCN\_09\_0156\_Rev\_-\_CP\_64\_1.pdf

**Attachment 6:** ADI\_PCN\_09\_0156\_Rev\_-\_CP\_64\_3.pdf

**Attachment 7:** ADI\_PCN\_09\_0156\_Rev\_-\_CP\_64\_6.pdf

**Attachment 8:** ADI\_PCN\_09\_0156\_Rev\_-\_CP\_64\_7.pdf

**Attachment 9:** ADI\_PCN\_09\_0156\_Rev\_-\_PCN\_09\_0156\_QUAL\_DATA\_0729CY09.xlsx

**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**

**Added Parts On This Revision - Product Family / Model Number (81)**

AD6653 / AD6653BCPZ-125	AD6653 / AD6653BCPZ-150	AD6655 / AD6655BCPZ-105	AD6655 / AD6655BCPZ-125	AD6655 / AD6655BCPZ-140	AD6655 / AD6655BCPZ-150
AD6655 / AD6655BCPZ-155	AD6655 / AD6655BCPZ-80	AD6655 / AD6655BCPZRL7-125	AD6655 / AD6655BCPZRL7-150	AD6655 / AD80206BCPZ-125	AD6655 / AD80206BCPZ-155
AD6655 / AD80206BCPZRL7-155	AD6655 / AD80218BCPZ-150	AD9212 / AD9212BCPZ-40	AD9212 / AD9212BCPZ-65	AD9212 / AD9212BCPZRL7-40	AD9212 / AD9212BCPZRL7-65
AD9219 / AD9219BCPZ-40	AD9219 / AD9219BCPZ-65	AD9219 / AD9219BCPZRL7-40	AD9219 / AD9219BCPZRL7-65	AD9222 / AD9222BCPZ-40	AD9222 / AD9222BCPZ-50
AD9222 / AD9222BCPZ-65	AD9222 / AD9222BCPZRL7-40	AD9222 / AD9222BCPZRL7-50	AD9222 / AD9222BCPZRL7-65	AD9228 / AD9228BCPZ-40	AD9228 / AD9228BCPZ-65
AD9228 / AD9228BCPZRL7-40	AD9228 / AD9228BCPZRL7-65	AD9229 / AD9229BCPZ-50	AD9229 / AD9229BCPZ-65	AD9229 / AD9229BCPZRL7-50	AD9229 / AD9229BCPZRL7-65
AD9252 / AD9252BCPZ-50	AD9252 / AD9252BCPZRL7-50	AD9259 / AD9259BCPZ-50	AD9259 / AD9259BCPZRL7-50	AD9287 / AD9287BCPZ-100	AD9287 / AD9287BCPZRL7-100
AD9517-0 / AD9517-0BCPZ	AD9517-0 / AD9517-0BCPZ-REEL7	AD9517-1 / AD9517-1BCPZ	AD9517-1 / AD9517-1BCPZ-REEL7	AD9517-2 / AD9517-2BCPZ	AD9517-2 / AD9517-2BCPZ-REEL7
AD9517-3 / AD9517-3BCPZ	AD9517-3 / AD9517-3BCPZ-REEL7	AD9517-4 / AD9517-4BCPZ	AD9517-4 / AD9517-4BCPZ-REEL7	AD9518-0 / AD9518-0BCPZ	AD9518-0 / AD9518-0BCPZ-REEL7
AD9518-1 / AD9518-1BCPZ	AD9518-1 / AD9518-1BCPZ-REEL7	AD9518-2 / AD9518-2BCPZ	AD9518-2 / AD9518-2BCPZ-REEL7	AD9518-3 / AD9518-3BCPZ	AD9518-3 / AD9518-3BCPZ-REEL7
AD9518-4 / AD9518-4BCPZ	AD9518-4 / AD9518-4BCPZ-REEL7	AD9549 / AD9549BCPZ	AD9549 / AD9549BCPZ-REEL7	AD9600 / AD9600BCPZ-105	AD9600 / AD9600BCPZ-125
AD9600 / AD9600BCPZ-150	AD9627 / AD9627BCPZ-105	AD9627 / AD9627BCPZ-125	AD9627 / AD9627BCPZ-150	AD9627 / AD9627BCPZ-80	AD9627-11 / AD9627BCPZ11-105
AD9627-11 / AD9627BCPZ11-150	AD9640 / AD80192BCPZ-155	AD9640 / AD9640BCPZ-105	AD9640 / AD9640BCPZ-125	AD9640 / AD9640BCPZ-150	AD9640 / AD9640BCPZ-80
AD9640 / AD9640BCPZRL7-80	AD9912 / AD9912BCPZ	AD9912 / AD9912BCPZ-REEL7			

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Rev Description</b>
Rev. -	21-Aug-2009	Initial Release

Analog Devices, Inc.

DocId:804 Parent DocId:None