



## Product/Process Change Notice - PCN 10\_0007 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:** Halogen Free Material Change for TSOT Products  
**Publication Date:** 26-Jan-2010  
**Effectivity Date:** 26-Apr-2010 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

This is a change to a new die attach and mold compound materials for assembly of ADI's TSOT products.

Assembly Site: Carsem

From this die attach: Ablestik 84-ILMISR4, and Ablestik 8290

To this die attach: Henkel QMI-519

From this mold compound: Hitachi CEL9220, and Nitto MP8000

To this mold compound: Hitachi CEL8240

### Reason For Change

ADI is standardizing on halogen free package materials that have equivalent or improved material properties in response to our customer and industry demands for halogen free "green" products.

### 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

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

The earliest date code of the changed product is Date Code 1019

### Summary of Supporting Information

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

### Supporting Documents

**Attachment 1: Type:** Reliability Report

ADI\_PCN\_10\_0007\_Rev\_-\_TSOT Qualification Data.doc

**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**

**Added Parts On This Revision - Product Family / Model Number (222)**

AD5165 / AD5165BUJZ100-R7	AD5165 / ADW50005-0REEL7	AD5227 / AD5227BUJZ10-RL7	AD5227 / AD5227BUJZ100-RL7	AD5227 / AD5227BUJZ50-RL7	AD5227 / ADW50013Z-0REEL7
AD5228 / AD5228BUJZ10-RL7	AD5228 / AD5228BUJZ100-RL7	AD5228 / AD5228BUJZ50-RL7	AD5450 / AD5450YUJZ-REEL	AD5450 / AD5450YUJZ-REEL7	AD5451 / AD5451YUJZ-REEL
AD5451 / AD5451YUJZ-REEL7	AD5452 / AD5452YUJZ-REEL	AD5452 / AD5452YUJZ-REEL7	AD5453 / AD5453YUJZ-REEL	AD5453 / AD5453YUJZ-REEL7	AD7273 / AD7273BUJZ-500RL7
AD7273 / AD7273BUJZ-REEL7	AD7274 / AD7274BUJZ-500RL7	AD7274 / AD7274BUJZ-REEL7	AD7276 / AD7276AUJZ-500RL7	AD7276 / AD7276AUJZ-REEL7	AD7276 / AD7276BUJZ-500RL7
AD7276 / AD7276BUJZ-REEL7	AD7276 / AD7276YUJZ-500RL7	AD7276 / AD7276YUJZ-REEL7	AD7276 / ADW70000-0RL7	AD7277 / AD7277AUJZ-500RL7	AD7277 / AD7277AUJZ-RL7
AD7277 / AD7277BUJZ-500RL7	AD7277 / AD7277BUJZ-REEL7	AD7278 / AD7278AUJZ-500RL7	AD7278 / AD7278AUJZ-RL7	AD7278 / AD7278BUJZ-500RL7	AD7278 / AD7278BUJZ-REEL7
AD7911 / AD7911AUJZ-REEL7	AD7912 / AD7912AUJZ-REEL	AD7912 / AD7912AUJZ-REEL7	AD7921 / AD7921AUJZ-REEL7	AD7922 / AD7922AUJZ-REEL7	AD8538 / AD8538AUJZ-REEL
AD8538 / AD8538AUJZ-REEL7	AD8603 / AD8603AUJZ-REEL	AD8603 / AD8603AUJZ-REEL7	AD8603 / AD8603AUJZ-REEL	AD8603 / AD8603AUJZ-REEL7	AD8603 / ADW60002AUJZ-R7
AD8603 / ADW60003AUJZ-R7	AD8613 / AD8613AUJZ-REEL	AD8613 / AD8613AUJZ-REEL7	AD8615 / AD8615AUJZ-REEL	AD8615 / AD8615AUJZ-REEL7	AD8628 / AD8628AUJZ-REEL
AD8628 / AD8628AUJZ-REEL7	AD8628 / AD8628AUJZ-REEL	AD8628 / AD8628AUJZ-REEL7	AD8628 / AD8628WAUJZ-RL	AD8677 / AD8677AUJZ-REEL	AD8677 / AD8677AUJZ-REEL7
AD8691 / AD8691AUJZ-REEL	AD8691 / AD8691AUJZ-REEL7	AD8691 / AD8691WAUJZ-R7	AD8691 / AD8691WAUJZ-RL	AD8691 / ADW60023AUJZ-R7	ADA4000-1 / ADA4000-1AUJZ-R7
ADA4000-1 / ADA4000-1AUJZ-RL	ADCMP670 / ADCMP670-1YUJZ-RL7	ADM1170 / ADM1170-1AUJZ-RL7	ADM1170 / ADM1170-2AUJZ-RL7	ADM1171 / ADM1171-1AUJZ-RL7	ADM1171 / ADM1171-2AUJZ-RL7
ADM1172 / ADM1172-1AUJZ-RL7	ADM1172 / ADM1172-2AUJZ-RL7	ADM4210 / AD51081Z-0RL7	ADM4210 / ADM4210-1AUJZ-RL7	ADM4210 / ADM4210-2AUJZ-RL7	ADP1701 / ADP1701AUJZ-R7
ADP1710 / ADP1710AUJZ-0.75R7	ADP1710 / ADP1710AUJZ-0.8-R7	ADP1710 / ADP1710AUJZ-0.85R7	ADP1710 / ADP1710AUJZ-0.9-R7	ADP1710 / ADP1710AUJZ-0.95R7	ADP1710 / ADP1710AUJZ-1.0-R7
ADP1710 / ADP1710AUJZ-1.05R7	ADP1710 / ADP1710AUJZ-1.10R7	ADP1710 / ADP1710AUJZ-1.15R7	ADP1710 / ADP1710AUJZ-1.2-R7	ADP1710 / ADP1710AUJZ-1.3-R7	ADP1710 / ADP1710AUJZ-1.5-R7
ADP1710 / ADP1710AUJZ-1.8-R7	ADP1710 / ADP1710AUJZ-2.5-R7	ADP1710 / ADP1710AUJZ-3.0-R7	ADP1710 / ADP1710AUJZ-3.3-R7	ADP1710 / ADP1710AUJZ-R7	ADP1711 / ADP1711AUJZ-0.75R7
ADP1711 / ADP1711AUJZ-0.8-R7	ADP1711 / ADP1711AUJZ-0.85R7	ADP1711 / ADP1711AUJZ-0.9-R7	ADP1711 / ADP1711AUJZ-0.95R7	ADP1711 / ADP1711AUJZ-1.0-R7	ADP1711 / ADP1711AUJZ-1.05R7
ADP1711 / ADP1711AUJZ-1.10R7	ADP1711 / ADP1711AUJZ-1.15R7	ADP1711 / ADP1711AUJZ-1.2-R7	ADP1711 / ADP1711AUJZ-1.3-R7	ADP1711 / ADP1711AUJZ-1.5-R7	ADP1711 / ADP1711AUJZ-1.8-R7
ADP1711 / ADP1711AUJZ-2.5-R7	ADP1711 / ADP1711AUJZ-3.0-R7	ADP1711 / ADP1711AUJZ-3.3-R7	ADP1712 / ADP1712AUJZ-0.75R7	ADP1712 / ADP1712AUJZ-0.8-R7	ADP1712 / ADP1712AUJZ-0.85R7
ADP1712 / ADP1712AUJZ-0.9-R7	ADP1712 / ADP1712AUJZ-0.95R7	ADP1712 / ADP1712AUJZ-1.0-R7	ADP1712 / ADP1712AUJZ-1.05R7	ADP1712 / ADP1712AUJZ-1.1-R7	ADP1712 / ADP1712AUJZ-1.15R7
ADP1712 / ADP1712AUJZ-1.2-R7	ADP1712 / ADP1712AUJZ-1.3-R7	ADP1712 / ADP1712AUJZ-1.5-R7	ADP1712 / ADP1712AUJZ-1.8-R7	ADP1712 / ADP1712AUJZ-2.5-R7	ADP1712 / ADP1712AUJZ-3.0-R7
ADP1712 / ADP1712AUJZ-3.3-R7	ADP1712 / ADP1712AUJZ-R7	ADP1713 / ADP1713AUJZ-0.75R7	ADP1713 / ADP1713AUJZ-0.8-R7	ADP1713 / ADP1713AUJZ-0.85R7	ADP1713 / ADP1713AUJZ-0.9-R7
ADP1713 / ADP1713AUJZ-0.95R7	ADP1713 / ADP1713AUJZ-1.0-R7	ADP1713 / ADP1713AUJZ-1.05R7	ADP1713 / ADP1713AUJZ-1.1-R7	ADP1713 / ADP1713AUJZ-1.15R7	ADP1713 / ADP1713AUJZ-1.2-R7
ADP1713 / ADP1713AUJZ-1.3-R7	ADP1713 / ADP1713AUJZ-1.5-R7	ADP1713 / ADP1713AUJZ-1.8-R7	ADP1713 / ADP1713AUJZ-2.5-R7	ADP1713 / ADP1713AUJZ-3.0-R7	ADP1713 / ADP1713AUJZ-3.3-R7
ADP1714 / ADP1714AUJZ-0.75R7	ADP1714 / ADP1714AUJZ-0.8-R7	ADP1714 / ADP1714AUJZ-0.85R7	ADP1714 / ADP1714AUJZ-0.9-R7	ADP1714 / ADP1714AUJZ-0.95R7	ADP1714 / ADP1714AUJZ-1.0-R7
ADP1714 / ADP1714AUJZ-1.05R7	ADP1714 / ADP1714AUJZ-1.1-R7	ADP1714 / ADP1714AUJZ-1.15R7	ADP1714 / ADP1714AUJZ-1.2-R7	ADP1714 / ADP1714AUJZ-1.3-R7	ADP1714 / ADP1714AUJZ-1.5-R7
ADP1714 / ADP1714AUJZ-1.8-R7	ADP1714 / ADP1714AUJZ-2.5-R7	ADP1714 / ADP1714AUJZ-3.0-R7	ADP1714 / ADP1714AUJZ-3.3-R7	ADP1864 / ADP1864AUJZ-R7	ADP2101 / ADP2101AUJZ-0.9-R7
ADP2101 / ADP2101AUJZ-1.2-R7	ADP2101 / ADP2101AUJZ-1.5-R7	ADP2101 / ADP2101AUJZ-1.8-R7	ADP2101 / ADP2101AUJZ-2.5-R7	ADP2101 / ADP2101AUJZ-3-R7	ADP2101 / ADP2101AUJZ-3.3-R7
ADP2101 / ADP2101AUJZ-R7	ADP2108 / ADP2108AUJZ-1.0-R7	ADP2108 / ADP2108AUJZ-1.1-R7	ADP2108 / ADP2108AUJZ-1.2-R7	ADP2108 / ADP2108AUJZ-1.3-R7	ADP2108 / ADP2108AUJZ-1.5-R7
ADP2108 / ADP2108AUJZ-1.8-R7	ADP2108 / ADP2108AUJZ-1.82R7	ADP2108 / ADP2108AUJZ-2.3-R7	ADP2108 / ADP2108AUJZ-2.5-R7	ADP2108 / ADP2108AUJZ-3.0-R7	ADP2108 / ADP2108AUJZ-3.3-R7
ADP2301 / ADP2301AUJZ-R7	ADR01 / ADR01AUJZ-REEL7	ADR01 / ADR01BUJZ-REEL7	ADR02 / ADR02AUJZ-REEL7	ADR02 / ADR02BUJZ-REEL7	ADR03 / ADR03AUJZ-REEL7
ADR03 / ADR03BUJZ-REEL7	ADR03A / ADR03ABUJZ-REEL7	ADR06 / ADR06AUJZ-REEL7	ADR06 / ADR06BUJZ-REEL7	ADR121 / ADR121AUJZ-REEL7	ADR121 / ADR121BUJZ-REEL7
ADR125 / ADR125AUJZ-REEL7	ADR125 / ADR125BUJZ-REEL7	ADR127 / ADR127AUJZ-REEL7	ADR127 / ADR127BUJZ-REEL7	ADR130 / ADR130AUJZ-REEL7	ADR130 / ADR130BUJZ-REEL7
ADR360 / ADR360AUJZ-REEL7	ADR360 / ADR360BUJZ-REEL7	ADR361 / ADR361AUJZ-REEL7	ADR361 / ADR361BUJZ-REEL7	ADR363 / ADR363AUJZ-REEL7	ADR363 / ADR363BUJZ-REEL7
ADR364 / ADR364AUJZ-REEL7	ADR364 / ADR364BUJZ-REEL7	ADR365 / ADR365AUJZ-REEL7	ADR365 / ADR365BUJZ-REEL7	ADR365 / ADR365WAUJZ-R7	ADR365 / ADR365WAUJZ-RL
ADR366 / ADR366AUJZ-REEL7	ADR366 / ADR366BUJZ-REEL7	ADR366 / ADR366WAUJZ-REEL7	ADR366 / ADW63002AUJZ-R7	ADR391 / ADR391AUJZ-REEL7	ADR391 / ADR391BUJZ-REEL7
ADR392 / ADR392AUJZ-REEL7	ADR392 / ADR392BUJZ-REEL7	ADR392 / ADR392WBUJZ-R7	ADR395 / ADR395AUJZ-REEL7	ADR395 / ADR395BUJZ-REEL7	ADR395 / ADW63005AUJZ-R7

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Rev Description</b>
Rev. -	26-Jan-2010	Initial Release

Analog Devices, Inc.

DocId:970 Parent DocId:969 Layout Rev:3