



## Product/Process Change Notice - PCN 10\_0034 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 laminate change and datasheet update for ADSP-BF538/BF538F & ADSP-BF539/BF539F CSP\_BGA products.

**Publication Date:** 09-Mar-2010

**Effectivity Date:** 01-Aug-2010 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

ADI will change the laminate material used on the ADSP-BF538(F) & ADSP-BF539(F) products in 17x17mm CSP\_BGA Package to halogen-free. The other materials used with this package are already halogen-free.

### Reason For Change

Halogen free materials are being implemented in response to customer and industry demands for "green" products.

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

This change of laminate material has no affect on quality or electrical performance of the device and will continue to meet Pb-free reflow conditions (Max. +255°C (+5/-0°C) peak).

Package dimensions & Thermal characteristics of the 316-ball, 17x17mm CSP\_BGA package will change, as a result of the laminate change. See attachment 2 for description of these changes.

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

### Summary of Supporting Information

Qualification will be performed per ADI0012, Procedure for Qualification of New or Revised Processes and AEC-Q100. See attached Qualification Plan.

### Supporting Documents

**Attachment 1: Type:** Qualification Plan Summary

ADI\_PCN\_10\_0034\_Rev\_-\_QualPlan.doc

**Attachment 2: Type:** Revised Datasheet Specification

ADI\_PCN\_10\_0034\_Rev\_-\_BF539\_ds\_RevC\_thermal.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****Added Parts On This Revision - Product Family / Model Number (17)**

ADSP-BF538 / ADSP-BF538BBCZ-4A	ADSP-BF538 / ADSP-BF538BBCZ-5A	ADSP-BF538F / ADSP-BF538BBCZ-4F8	ADSP-BF538F / ADSP-BF538BBCZ-5F8	ADSP-BF539 / ADSP-BF539BBCZ-5A	ADSP-BF539F / ADSP-BF539BBCZ-5F8
ADSP-BF539F / ADSP-BF539YBCZ-4F8	ADSP-BF539FW-5 / ADBF539WBBCZ4F805	ADSP-BF539FW-5 / ADBF539WBBCZ5F805	ADSP-BF539FW-5 / ADBF539WYBCZ4F805	ADSP-BF539FW-5 / ADW95081Z-05	ADSP-BF539FW-5 / ADW95089Z-05
ADSP-BF539W-03 / ADW95052Z-03	ADSP-BF539W-04 / ADW95045Z-04	ADSP-BF539W-05 / ADBF539WBBCZ405	ADSP-BF539W-05 / ADBF539WBBCZ505	ADSP-BF539W-4B / ADW95027Z-04	

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Rev Description</b>
Rev. -	09-Mar-2010	Initial Release

Analog Devices, Inc.

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