



## Product/Process Change Notice - PCN 15\_0175 Rev. -

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This notice is to inform you of a change that will be made to certain ADI products (see Appendix A) that you may have purchased in the last 2 years. **Any inquiries or requests with this PCN (additional data or samples) must be sent to ADI within 30 days of publication date.** ADI contact information is listed below.

**PCN Title:** Ink to Laser Mark Conversion for SBGA Packages  
**Publication Date:** 21-Sep-2015  
**Effectivity Date:** 20-Dec-2015 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

ADI will be converting the package top mark (brand) from ink mark to laser mark for all lead counts and body sizes of the SBGA parts. Transition to laser mark will be dependent on inventory depletion of ink marked material and/or production release requirements.

### Reason For Change

ADI is already in production with laser mark for many package families i.e. low pin counts, QFPs and the majority of BGA reverse flow single-grade parts. The industry trend is toward ink mark elimination in favor of laser mark. This aligns with supplier direction and industry environmental initiatives.

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

No impact on fit, form, function & reliability.

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

Changed material can be identified by the top laser marking.

### Summary of Supporting Information

ADI has used laser mark in production for many years. Samples were obtained and evaluated for test backend vision system performance based on current test site/s. See attached comparison.

A comparison of laser and ink mark samples on a SBGA package is in the attachment i.e. Top marking in laser (photo on the left) vs. Top marking in ink (photo on the right).

### Supporting Documents

**Attachment 1: Type:** Marking Comparison

ADI\_PCN\_15\_0175\_Rev\_-\_AP3 SBGA laser vs ink mark.pptx

For questions on this PCN, please send an email to the regional contacts below or contact your local ADI sales representatives.

**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 (27)**

AD8104 / AD8104ABPZ	AD8105 / AD8105ABPZ	AD8117 / AD8117ABPZ	AD8118 / AD8118ABPZ	AD8152 / AD8152JBPZ
ADATE207 / ADATE207BBPZ	ADN4605 / ADN4605ABPZ	ADSP-21367 / ADSP-21367KBP-2A	ADSP-21367 / ADSP-21367KBPZ-2A	ADSP-21367 / ADSP-21367KBPZ-3A
ADSP-21367-D / ADSST-AVR-1114	ADSP-21367-D / ADSST-AVR-1133	ADSP-21367-D / ADSST-AVR-1134	ADSP-21367-D / ADSST-AVR-1135	ADSP-21367-D / ADSST-AVR-1140
ADSP-21367-D / ADSST-AVR-1178	ADSP-21367-D / ADSST-AVR-1180	ADSP-21368 / ADSP-21368BBPZ-2A	ADSP-21368 / ADSP-21368KBPZ-2A	ADSP-21368 / ADSP-21368KBPZ-3A
ADSP-21369 / ADSP-21369BBP-2A	ADSP-21369 / ADSP-21369BBPZ-2A	ADSP-21369 / ADSP-21369KBPZ-2A	ADSP-21369 / ADSP-21369KBPZ-3A	GAD53064 / AD53064-03
GAD53065 / AD53065-01	GAD53104 / AD53104-01			

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	21-Sep-2015	20-Dec-2015	Initial Release

Analog Devices, Inc.

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