



## Product/Process Change Notice - PCN 20\_0303 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:** ADuM6000/ADuM620x/ADuM640x Polyimide Insulation Material Change and Polyimide Overcoat

**Publication Date:** 19-Nov-2020

**Effectivity Date:** 21-Feb-2021 *(the earliest date that a customer could expect to receive changed material)*

**Revision Description:**

Initial Release.

**Description Of Change:**

1. Change in Polyimide material formulation used in the insulation process on power coil die.
2. Additional layer of Polyimide passivation on top of the non-coil dice.

**Reason For Change:**

1. Transition away from a Polyimide insulation material in obsolescence. The new Polyimide material formulation will continue to support the safety certifications obtained with the original Polyimide insulation.
2. Polyimide overcoats offer the following advantages: improved ESD robustness, enhanced protection against die scratches, package stresses, surface ESD/EOS events and radiation.

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

No change to fit, form, or reliability. No change to the data sheet.

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

The changed material will be identifiable via a cut over date code which will be defined after PCN acceptance.

**Summary of Supporting Information:**

Qualification has been performed per Industry Standard Test Methods. See attached Qualification Results Summary.

**Supporting Documents**

**Attachment 1: Type:** Qualification Results Summary

ADI\_PCN\_20\_0303\_Rev\_- Qualification Results Summary for ADuM6x0x Polyimide Change.pdf

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:**

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**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 (68)

ADUM6000 / ADUM6000ARIZ	ADUM6000 / ADUM6000ARIZ-RL	ADUM6000 / ADUM6000ARWZ	ADUM6000 / ADUM6000ARWZ-RL	ADUM6200 / ADUM6200ARIZ
ADUM6200 / ADUM6200ARIZ-RL	ADUM6200 / ADUM6200ARWZ	ADUM6200 / ADUM6200ARWZ-RL	ADUM6200 / ADUM6200CRIZ	ADUM6200 / ADUM6200CRIZ-RL
ADUM6200 / ADUM6200CRWZ	ADUM6200 / ADUM6200CRWZ-RL	ADUM6201 / ADUM6201ARIZ	ADUM6201 / ADUM6201ARIZ-RL	ADUM6201 / ADUM6201ARWZ
ADUM6201 / ADUM6201ARWZ-RL	ADUM6201 / ADUM6201CRIZ	ADUM6201 / ADUM6201CRIZ-RL	ADUM6201 / ADUM6201CRWZ	ADUM6201 / ADUM6201CRWZ-RL
ADUM6202 / ADUM6202ARIZ	ADUM6202 / ADUM6202ARIZ-RL	ADUM6202 / ADUM6202ARWZ	ADUM6202 / ADUM6202ARWZ-RL	ADUM6202 / ADUM6202CRIZ
ADUM6202 / ADUM6202CRIZ-RL	ADUM6202 / ADUM6202CRWZ	ADUM6202 / ADUM6202CRWZ-RL	ADUM6400 / ADUM6400ARIZ	ADUM6400 / ADUM6400ARIZ-RL
ADUM6400 / ADUM6400ARWZ	ADUM6400 / ADUM6400ARWZ-RL	ADUM6400 / ADUM6400CRIZ	ADUM6400 / ADUM6400CRIZ-RL	ADUM6400 / ADUM6400CRWZ
ADUM6400 / ADUM6400CRWZ-RL	ADUM6401 / ADUM6401ARIZ	ADUM6401 / ADUM6401ARIZ-RL	ADUM6401 / ADUM6401ARWZ	ADUM6401 / ADUM6401ARWZ-RL
ADUM6401 / ADUM6401CRIZ	ADUM6401 / ADUM6401CRIZ-RL	ADUM6401 / ADUM6401CRWZ	ADUM6401 / ADUM6401CRWZ-RL	ADUM6402 / ADUM6402ARIZ
ADUM6402 / ADUM6402ARIZ-RL	ADUM6402 / ADUM6402ARWZ	ADUM6402 / ADUM6402ARWZ-RL	ADUM6402 / ADUM6402CRIZ	ADUM6402 / ADUM6402CRIZ-RL
ADUM6402 / ADUM6402CRWZ	ADUM6402 / ADUM6402CRWZ-RL	ADUM6403 / ADUM6403ARIZ	ADUM6403 / ADUM6403ARIZ-RL	ADUM6403 / ADUM6403ARWZ
ADUM6403 / ADUM6403ARWZ-RL	ADUM6403 / ADUM6403CRIZ	ADUM6403 / ADUM6403CRIZ-RL	ADUM6403 / ADUM6403CRWZ	ADUM6403 / ADUM6403CRWZ-RL
ADUM6404 / ADUM6404ARIZ	ADUM6404 / ADUM6404ARIZ-RL	ADUM6404 / ADUM6404ARWZ	ADUM6404 / ADUM6404ARWZ-RL	ADUM6404 / ADUM6404CRIZ
ADUM6404 / ADUM6404CRIZ-RL	ADUM6404 / ADUM6404CRWZ	ADUM6404 / ADUM6404CRWZ-RL		

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>		<b>Rev Description</b>
Rev. -	19-Nov-2020	21-Feb-2021	Initial Release.	

Analog Devices, Inc.

DocId:8305 Parent DocId:None Layout Rev:7

**Qualification Results Summary of ADuM6000/ADuM620x/ADuM640x Polyimide  
Insulation Material Change and Polyimide Overcoat**

QUALIFICATION PLAN / STATUS			
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS
High Temperature Operating Life (HTOL)*	JEDEC JESD22-A108	<b>9 x 77</b>	<b>Pass</b>
Highly Accelerated Stress Test (HAST)*	JEDEC JESD22-A110	<b>9 x 77</b>	<b>Pass</b>
Temperature Cycle (TC)*	JEDEC JESD22-A104	<b>9 x 77</b>	<b>Pass</b>
Unbiased Highly Accelerated Stress Test (uHAST)*	JEDEC JESD22-A118	<b>1 x 77</b>	<b>Pass</b>
Autoclave (AC)*	JEDEC JESD22-A102	<b>8 x 77</b>	<b>Pass</b>
High Temperature Storage Life (HTSL)	JEDEC JESD22-A103	<b>3 x 45</b>	<b>Pass</b>
Solder Heat Resistance (SHR)*	JEDEC/IPC J-STD-020	<b>3 x 10</b>	<b>Pass</b>
Latch-Up	JEDEC JESD78	<b>1 x 9</b>	<b>Pass</b>
Electrostatic Discharge <i>Human Body Model</i>	ESDA/JEDEC JS-001	<b>3/voltage</b>	<b>Pass 2.5kV</b>
Electrostatic Discharge <i>Field-Induced Charged Device Model</i>	JEDEC JS-002	<b>3/voltage</b>	<b>Pass 500V</b>

\*Preconditioned per JEDEC/IPC J-STD-020