



Product/Process Change Notice - PCN 24_0033 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:	Qualification of Cu pillar diameter change, SMT paste, and Die thickness change for LT8644S
Publication Date:	16-Apr-2024
Effectivity Date:	19-Jul-2024 <i>(the earliest date that a customer could expect to receive changed material)</i>
Revision Description:	Initial Release

Description Of Change:

The following changes will be made:

1. SMT attach material from SnSb5 to SAC305.
2. Cu pillar size from 85um to 100um.
3. Die thickness change from 450um to 200um.

Reason For Change:

Improve manufacturability.

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

There is no impact on form, fit, function, and reliability.

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

The date code will be provided to the customer upon implementation.

Summary of Supporting Information:

Qualification has been performed per AEC-Q100, Stress Test Qualification for Integrated Circuits. See the attached Qualification Results Summary.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

[ADI PCN 24_0033 Rev - LT8644S Reliability report.pdf...](#)

Attachment 2: Type: Delta Qualification Matrix

[ADI PCN 24_0033 Rev - ADI PCN 24_0033 Rev - PCN-Delta-Qualification-Ma...](#)

Attachment 3: Type: Other

[ADI PCN 24_0033 Rev - Thermal analysis summary LT8644S_20240314.xlsx...](#)

Note: If applicable, the device material declaration will be updated due to material change.

ADI Contact Information:

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

Americas:	Europe:	Japan:	Korea:	Rest of Asia:
PCN_Americas@analog.com	PCN_Europe@analog.com	PCN_Japan@analog.com	PCN_Korea@analog.com	PCN_ROA@analog.com

Appendix A - Affected ADI Models:

Added Parts On This Revision - Product Family / Model Number (6)

LT8644S / LT8644SIV#3ZZPBF

LT8644S / LT8644SIV#3ZZTRPBF

LT8644S / LT8644SIV#TRMPBF

LT8644S / LT8644SIV#TRPBF

LT8644S / LT8644SIV#VTRMPBF

LT8644S / LT8644SIV#VTRPBF

Appendix B - Revision History:

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	16-Apr-2024	19-Jul-2024	Initial Release