



Product/Process Change Notice - PCN 24_0242 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:	LT8685S Notification of Qualification of Die Thickness, SMT paste, and Thermal Parameter Change
Publication Date:	28-Oct-2024
Effectivity Date:	30-Jan-2025 <i>(the earliest date that a customer could expect to receive changed material)</i>
Revision Description:	Initial Release

Description Of Change:

- Die thickness changes from 450um to 200um.
- SMT attach material from SnSb5 to SAC305.
- The thermal parameters will be changed as shown in the attached document.

Reason For Change:

Die thickness and SMT paste change is done to improve the manufacturability.

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

No impact on the product's form, fit, function, quality, or 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 was performed per AEC-Q100, Stress Test Qualification for Integrated Circuits.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

[ADI_PCN_24_0242_Rev_-LT8685_Reliability_report.pdf...](#)

Attachment 2: Type: Other

[ADI_PCN_24_0242_Rev_-Thermal_analysis_summary_LT8685_20241005.pdf...](#)

Attachment 3: Type: Delta Qualification Matrix

[ADI_PCN_24_0242_Rev_-PCN-Delta-Qualification-Matrix-ZVEI-5_1_7.xlsm...](#)

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)

LT8685S / LT8685SRV##PBF

LT8685S / LT8685SRV#TRMPBF

LT8685S / LT8685SRV#TRPBF

LT8685S / LT8685SRV##VPBF

LT8685S / LT8685SRV#VTRMPBF

LT8685S / LT8685SRV#VTRPBF

Appendix B - Revision History:

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	28-Oct-2024	30-Jan-2025	Initial Release