



Product/Process Change Notice - PCN 24_0002 Rev. -

Analog Devices, Inc. One Analog Way, Wilmington, MA 01887, USA

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 New Mold Compound, SMT Paste and Pillar Diameter Change for LT8645S, LT8645S-2, LT8646S
Publication Date:	06-Feb-2024
Effectivity Date:	10-May-2024 <i>(the earliest date that a customer could expect to receive changed material)</i>
Revision Description:	Initial Release

Description Of Change:

Following changes will be made:

1. SMT attach material from SnSb5 to SAC305
2. Cu pillar size from 85um to 100um
3. Molding compound Sumitomo E670E to Sumitomo G311E

Reason For Change:

Improve manufacturability.

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

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_0002_Rev_-LT8645S_Reliability_Report.pdf...](#)

Attachment 2: Type: Delta Qualification Matrix

[ADI_PCN_24_0002_Rev_-PCN-Delta-Qualification-Matrix-ZVEI-5_0_14_1.xls...](#)

Attachment 3: Type: Other

[ADI_PCN_24_0002_Rev_-Thermal_analysis_summary_LT8645S_20240118.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 (29)

LT8645S / LT8645SEV#PBF	LT8645S / LT8645SEV#TRPBF	LT8645S / LT8645SEV#VPBF	LT8645S / LT8645SEV#VTRPBF	LT8645S / LT8645SIV#PBF
LT8645S / LT8645SIV#TRPBF	LT8645S / LT8645SIV#VPBF	LT8645S / LT8645SIV#VTRPBF	LT8645S-2 / LT8645SEV-2#PBF	LT8645S-2 / LT8645SEV-2#TRMPBF
LT8645S-2 / LT8645SEV-2#TRPBF	LT8645S-2 / LT8645SEV-2#VPBF	LT8645S-2 / LT8645SHV-2#3ZZPBF	LT8645S-2 / LT8645SHV-2#PBF	LT8645S-2 / LT8645SHV-2#TRMPBF
LT8645S-2 / LT8645SHV-2#TRPBF	LT8645S-2 / LT8645SHV-2#VPBF	LT8645S-2 / LT8645SJV-2#PBF	LT8645S-2 / LT8645SJV-2#TRMPBF	LT8645S-2 / LT8645SJV-2#TRPBF
LT8645S-2 / LT8645SJV-2#VPBF	LT8646S / LT8646SEV#PBF	LT8646S / LT8646SEV#TRPBF	LT8646S / LT8646SEV#VPBF	LT8646S / LT8646SEV#VTRPBF
LT8646S / LT8646SIV#PBF	LT8646S / LT8646SIV#TRPBF	LT8646S / LT8646SIV#VPBF	LT8646S / LT8646SIV#VTRPBF	

Appendix B - Revision History:

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	06-Feb-2024	10-May-2024	Initial Release