



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

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. An acceptance or concern response should be submitted to ADI promptly. Any requests for samples of changed material or additional information must be made within 30 days of the notification. In accordance with JEDEC Standard 046, customers should acknowledge receipt of the PCN within 30 days of the PCN delivery. ADI contact information is listed below. Note: Revised fields are indicated by a red field name. See Appendix B for revision history.

Lack of acknowledgment of the PCN within 30 days constitutes acceptance of the change. After the acknowledgment, a lack of additional requests within 90 days constitutes acceptance of the change.

Note: Revised fields are indicated by a red field name. See Appendix B for revision history.

PCN Title:	Qualification of New Mold Compound, SMT Paste and Pillar Diameter Change for LT8645S, LT8645S-2, LT8646S
Publication Date:	09-Sep-2025
Effectivity Date:	10-May-2024 <i>(the earliest date that a customer could expect to receive changed material)</i>
Revision Description:	Adding comments for the customer regarding changes not applicable to LT8645S-2.

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.

Comments:

Item #1 SMT attach material from SnSb5 to SAC305 does not apply to LT8645S-2.

Supporting Documents:

Attachment 1: Type: Qualification Results Summary

ADI_PCN_24_0002_Rev_A_LT8645S_Reliability Report.pdf

Attachment 2: Type: Delta Qualification Matrix
ADI_PCN_24_0002_Rev_A_PCN-Delta-Qualification-Matrix-ZVEI-5_0_14 1.xlsm

Attachment 3: Type: Other
ADI_PCN_24_0002_Rev_A_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:

Existing Parts - 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
Rev. A	09-Sep-2025	10-May-2024	Adding comments for the customer regarding changes not applicable to LT8645S-2.