



Product/Process Change Notice - PCN 23_0172 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 an Additional Substrate Supplier, SMT Attach Material and Pillar Size Change for LT8650S
Publication Date:	28-Aug-2023
Effectivity Date:	30-Nov-2023 <i>(the earliest date that a customer could expect to receive changed material)</i>
Revision Description:	Initial Release.

Description Of Change:

- Increase copper pillar diameter from 78um to 90um.
- Add New substrate supplier with Substrate core thickness change from 40um to 60um.
- Die thickness updated from 450um to 200um.
- Change passive component attach material from SnSb5 to SAC305.

Reason For Change:

Improve the manufacturability and add substrate supplier.

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

No impact on form, fit, or function. Improves 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 attached Qualification Results Summary.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

[ADI_PCN_23_0172_Rev_-_LT8650S_Qualification_Report.pdf...](#)

Attachment 2: Type: Delta Qualification Matrix

[ADI_PCN_23_0172_Rev_-_LT8650S_PCN-Delta-Qualification-Matrix-ZVEI.xlsm...](#)

Attachment 3: Type: Other

[ADI_PCN_23_0172_Rev_-_LT8650S_Thermal_Analysis_Summary.pdf...](#)

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:

Rest of Asia:

Appendix A - Affected ADI Models:

Added Parts On This Revision - Product Family / Model Number (17)

LT8650S / LT8650SEV#PBF	LT8650S / LT8650SEV#TRPBF	LT8650S / LT8650SEV#VPBF	LT8650S / LT8650SEV#VTRPBF	LT8650S / LT8650SHV#PBF
LT8650S / LT8650SHV#TRPBF	LT8650S / LT8650SHV#VPBF	LT8650S / LT8650SHV#VTRPBF	LT8650S / LT8650SHV-CSL#PBF	LT8650S / LT8650SHV-CSL#TRPBF
LT8650S / LT8650SIV#3ZZPBF	LT8650S / LT8650SIV#PBF	LT8650S / LT8650SIV#TRPBF	LT8650S / LT8650SIV#VPBF	LT8650S / LT8650SIV#VTRPBF
LT8650S / LT8650SJV#VPBF	LT8650S / LT8650SJV#VTRPBF			

Appendix B - Revision History:

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	28-Aug-2023	30-Nov-2023	Initial Release.