



Product Change Notification **CN-202210024F**

Issue date: 02 Nov 2022
Effective date: 01 May 2023
Here's your personalized quality information concerning products our customers and partners purchased from Nexperia.
For more details please contact your respective Nexperia CSR/AM.



Improved leadless 8 pad packages to achieve zero delamination in ATSN, Malaysia (Automotive)

Change Category

- Wafer
- Fab
- Process
- Wafer
- Fab
- Materials
- Wafer
- Fab
- Location
- Assembl
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- Process
- Assembl
- Materials
- Assembl
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- Location
- Product Marking
- Mechanical
- Specification
- Packing/Shipping/Labelin
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- Test
- Location
- Test
- Process
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- Electrical
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- coverage

Details of this change

Improved BOM of leadless 8 pad packages to achieve zero delamination in ATSN (Nexperia Assembly & Test Plant Seremban Malaysia) for automotive customers

- BOM change for zero delamination performance
- Enhanced mould compound
- Introduced rough PPF inner leadframe
- Changed lead finish from Sn to enhanced NiPdAu (alignment with packages which were released since 2015)
- No change of die
- No change of diffusion fab location
- No change of assembly location
- Introduce wafer test (WT) at UTL

Qualification in accordance to the Automotive Electronics Council:

- AEC-Q100-rev. H Stress Test Qualification for Integrated Circuits

SQR_PCN_CN-202210024F.pdf: https://qcm.nexperia.com/Document/DOC-545934/SQR_PCN_CN-202210024F.pdf

Why do we implement this change?

To improve the intrinsic quality

Identification of affected products

The changed products can be identified by backward traceability of the product marking date code as well as on the reel and box labels

Management summary

- Improved leadless 8 pad packages to achieve zero delamination for automotive customers
- Introduce wafer test (WT) at UTL (UTAC Thai Limited Bangkok Thailand)
- For automotive products / customers

Product availability

Production

Planned first shipment: 01 May 2023

Existing inventory will be shipped until depleted

Sample information

Samples are available upon request

Impact

No impact to the product's functionality anticipated

Data sheet revision

No impact to existing datasheet

Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 02 Dec 2022. Lack of acknowledgement of the PCN constitutes acceptance of the change.

Additional information

[View Change Notification Online](#)

Remarks

- No change in data sheet electrical specification, test limits and distributions
- No assembly location change - No wafer fab location change - No wafer fab process change - Samples are available upon request via Helpdesk+ from BG Analog & Logic ICs sample store in Nijmegen The Netherlands

Contact and support

For all Quality Notification content inquiries, please contact your local Nexperia Sales Support Team.

For specific questions on this notice or the products affected please contact our specialist directly: pcn@nexperia.com

In case of distribution, please contact you distribution partner.

About Nexperia B.V.

We at Nexperia are the efficiency semiconductor company. We deliver over 90 billion products a year and as such service thousands of global customers, both directly and through our extensive network of channel partners. We are at the heart of billions of electronic devices in the Automotive, Mobile, Industrial, Consumer, Computing, and Communication Infrastructure segments.

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SalesItem_name	SalesItem_orderablePartNumber	SalesOrder_customerPartNumber	ProductType_name	BasicType_description	PackageOutlineVersion_description	PackageType_description	SalesItem_state	SalesItem_customerSpecificIndicator	BusinessLine_description
935690862115	74AVC2T45GT-Q100X	74AVC2T45GT-Q100X	74AVC2T45GT-Q100	Dual-bit, dual-supply volta	SOT833-1	XSON8	RFS	No	Analog & Logic
935299297115	74LVC1G74GT-Q100X	74LVC1G74GT-Q100X	74LVC1G74GT-Q100	Single D-type flip-flop with	SOT833-1	XSON8	RFS	No	Analog & Logic
935690702115	74LVC2T45GT-Q100X	74LVC2T45GT-Q100X	74LVC2T45GT-Q100	Dual supply translating tra	SOT833-1	XSON8	RFS	No	Analog & Logic