



**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**

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wafer	Assembl		Test	Design
Fab	y		Location	Errata
Process	Process	<input type="checkbox"/> Product Marking	<input type="checkbox"/> Test	<input type="checkbox"/> Electrical
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Mechanical	Process	spec./Test
Wafer	Assembl	Specification	<input type="checkbox"/> Test	coverage
Fab	y	<input type="checkbox"/>	Equipmen	
Material	Materials	Packing/Shipping/Labelin	t	
s	<input type="checkbox"/>	g		
<input type="checkbox"/>	Assembl			
Wafer	y			
Fab	Location			
Location				

**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](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](mailto: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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