



Product Change Notification

CN-202204023F

Issue date: 04 Oct 2022

Effective date: 16 Jan 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.



Release of 8 inch wafer diameter for RETs

Change Category

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

Details of this change

Release of production using 8 inch wafer diameter for resistor-equipped Transistors (RET).

For selected types, the conversion is combined with the introduction of:

- Change of die layout and die pitch size
- Cu-wire introduction + EMC change
- Change of top side metallization
- Change of back side metallization
- Change of die thickness

Please refer to the Self Qualification Report for details and list of affected product types.

Production on 8 inch wafer diameter implies the use of the respective 8 inch wafer process technology.

SQR_CN_202204023F.pdf: https://qcm.nexperia.com/Document/DOC-544359/SQR_CN_202204023F.pdf

CN-FORM-Rev_5_0_2_CN-202204023F.xlsm:
https://qcm.nexperia.com/Document/DOC-544172/CN-FORM-Rev_5_0_2_CN-202204023F.xlsm

CN-Delta-Qualification-Matrix-ZVEI-5_0_14_CN-202204023F.xlsm:
https://qcm.nexperia.com/Document/DOC-544153/CN-Delta-Qualification-Matrix-ZVEI-5_0_14_CN-202204023F.xlsm

Why do we implement this change?

- Improved supply situation by capacity expansion in the wafer fab
- State of the Art technology by continuous alignment with world class technology trends
- Increase flexibility and improved volume ramp-up

Identification of affected products

The 8 inch products can be identified by a marker on the die surface.
Changed products can be identified by date code after implementation.

Product availability

Production

Planned first shipment: 01 Feb 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

Disposition of old products

Supply using 6 inch wafer will be continued in parallel to 8 inch wafer production.

Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 03 Nov 2022. Lack of acknowledgement of the PCN constitutes acceptance of the change.

Additional information

[View Change Notification Online](#)

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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