



Product Change Notification **CN-202109009F**

Issue date: 29 Sep 2021
Effective date: 28 Mar 2022

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For more details please contact your respective Nexperia CSR/AM.



Transfer HEF4051B Logic product into released and mature PC95SSMB process (Automotive)

Change Category

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

Details of this change

Transfer HEF4051B Logic product into released and mature PC95SSMB process

- HEF4051B is currently the only die produced in PC950SMB process
- Remaining analog multiplexer/demultiplexer types in the HEF family (HEF4052B, HEF4053B) are running in mass volume since 2000 in PC95SSMB process
- IP used for new HEF4051B die design is identical to already released/mature analog multiplexer/demultiplexer products (HEF4052B and HEF4053B)
- No wafer fab location change, continue ICN8 NXP Semiconductors (Nijmegen, The Netherlands)
- No assembly / final test location change, continue ATBK (NXP Semiconductors, Plant Bangkok Thailand) and ASEN (ASE Group, Plant Suzhou China)

Qualification in accordance to the Automotive Electronics Council:

- AEC-Q100-rev. H Stress Test Qualification for Integrated Circuits
- AEC-Q006-rev. A Qualification requirements for Cu-wire interconnection

Please use the below link to access related documentation to this change notification

https://qcm.nexperia.com/change-notification-epcn/Nexperia_SQR_CN_202109009F_HEF4051B_Automotive.pdf

Nexperia_SQR_CN_202109009F_HEF4051B_Automotive.pdf:

https://qcm.nexperia.com/Document/DOC-519593/Nexperia_SQR_CN_202109009F_HEF4051B_Automotive.pdf

Why do we implement this change?

- Process life cycle management action to move HEF4051B from non-preferred to preferred process

Identification of affected products

- The changed products can be identified by backward traceability of the product marking date code

Management summary

Transfer HEF4051B Logic product into released and mature PC95SSMB process

Product availability

Production

Planned first shipment: 31 Mar 2022

Existing inventory will be shipped until depleted

Sample information

Samples are available upon request

Impact

Impact to the product's functionality is anticipated

- No change in data sheet and test limits
- No change in form, fit, function, quality or reliability
- Typical product parameters HEF4051B in new process match by 10% with type in existing process

Data sheet revision

No impact to existing datasheet

Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 29 Oct 2021. Lack of acknowledgement of the PCN constitutes acceptance of the change.

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.

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<u>SalesItem_name</u>	<u>Affected Part Numbers</u>
935298519118	HEF4051BT-Q100,118
935298519139	HEF4051BT-Q100Z
935298521118	HEF4051BTT-Q100,11