



## Product Change Notification

CN-202109009F

**Issue date:** 29 Sep 2021

**Effective date:** 28 Mar 2022

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.



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

### Change Category

<input checked="" type="checkbox"/> Wafer Fab Process	<input type="checkbox"/> Assembly Process	<input type="checkbox"/> Product Marking	<input type="checkbox"/> Test Location	<input checked="" type="checkbox"/> Design
<input type="checkbox"/> Wafer Fab Materials	<input type="checkbox"/> Assembly Materials	<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Process	<input type="checkbox"/> Errata
<input type="checkbox"/> Wafer Fab Location	<input type="checkbox"/> Assembly Location	<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Equipment	<input type="checkbox"/> Electrical spec./Test coverage

## 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](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](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.

## 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](mailto:pcn@nexperia.com)

In case of distribution, please contact you distribution partner.

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SalesItem_name	SalesItem_orderablePartNumber	SalesOrder_customerPartNumber	ProductType_name	BasicType_description	PackageOutlineVersion_description	PackageType_description	SalesItem_state	SalesItem_discontinuationType	SalesItem_availability	SalesItem_source	SalesItem_lastTimeBuyDate	SalesItem_lastTimeShipDate	SalesItem_customerSpecificIndicator	Replacement_SalesItem_orderablePartNumber	Replacement_SalesItem_name	Replacement_ProductType_name	Replacement_BasicType_description	BusinessLine_description
935298519118	HEF4051BT-Q100,118	HEF4051BT-Q100,118	HEF4051BT-Q100	8-channel analog multiplexer/demultiplexer	SOT109-1	SO16	RFS						No					Analog & Logic ICs
935298519139	HEF4051BT-Q100Z		HEF4051BT-Q100	8-channel analog multiplexer/demultiplexer	SOT109-1	SO16	RFS						No					Analog & Logic ICs
935298521118	HEF4051BTT-Q100,11		HEF4051BTT-Q100	8-channel analog multiplexer/demultiplexer	SOT403-1	TSSOP16	RFS						No					Analog & Logic ICs