



# Final Product/Process Change Notification

Document #: FPCN23837ZA

Issue Date: 13 Jan 2023

<b>Title of Change:</b>	Wafer fab transfer to onsemi Gresham, Oregon USA from BelGaN, Oudenaarde, Belgium related to Fab2 sale. Material change in bondwire type and leadframe.
<b>Proposed Changed Material First Ship Date:</b>	20 Jul 2023 or earlier if approved by customer
<b>Current Material Last Order Date:</b>	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>
<b>Current Material Last Delivery Date:</b>	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>
<b>Product Category:</b>	Active components – Integrated circuits
<b>Contact information:</b>	Contact your local onsemi Sales Office or <a href="mailto:nixon.mathew@onsemi.com">nixon.mathew@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
<b>Sample Availability Date:</b>	06 Dec 2022
<b>PPAP Availability Date:</b>	06 Dec 2022
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Catherine.DeKeukeleire@onsemi.com">Catherine.DeKeukeleire@onsemi.com</a>
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> .
<b>Change Category</b>	
<b>Category</b>	<b>Type of Change</b>
Process - Wafer Production	Change in process technology (e. g. process changes like lithography, etch, oxide deposition, diffusion, die back surface preparation/backgrind, ...), Move of all or part of wafer fab to a different location/site/subcontractor, New wafer diameter, New / change of passivation or die coating (without bare die)
Equipment	Production from a new equipment/tool which uses the same basic technology (replacement equipment or extension of existing equipment pool) without change of process.
Data Sheet	Change of datasheet parameters/electrical specification (min./max./typ. values) and/or AC/DC specification
Process - Assembly	Change of direct material supplier, Change of lead frame finishing material / area (internal), Change of wire bonding, Change of product marking
Design	Minor design changes for better testability, trimming, not having impact on datasheet parameters

## Description and Purpose:

	Before Change Description	After Change Description
Change of Orderable Part Number	NCV7710DQR2G	NCV7710DQBR2G
Change in process technology	Current: Power Metal Chipbond	New: Cu Power Metal Gresham
Wafer Fab/Wafer Size	Fab2 Substrate: Si (150mm) 6"	Gresham Substrate: Si (200mm) 8"
Change of datasheet parameters/electrical specification	See Datasheet NCV7710/D Rev 7	See Datasheet NCV7710B/D Rev 0
Change of lead frame finishing material / area (internal)	Non Roughened Leadframe	Roughened Leadframe
Change of wire bonding	2mil Au	2mil Pd-coated Cu wire
Change of product marking	NCV7710	NCV7710B
Change of Passivation Layer	No Polyimide	Addition of Polyimide
Change in direct Material Supplier	Leadframe Material supplier DCI	Leadframe Material supplier ASM
Design changes in active elements	-	minor design changes for better testability, trimming, not having impact on datasheet parameters

## Reason / Motivation for Change:

Source/Supply/Capacity Changes

## Anticipated impact on fit, form, function, reliability, product safety or manufacturability:

The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded.

No anticipated impacts.

## Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Carmona, Philippines	
onsemi, Gresham United States	

## Marking of Parts/ Traceability of Change:

Product marking will be updated to NCV7710B.

## Reliability Data Summary:

**NOTE: AEC -1pager is attached.**

To view attachments:

1. Download pdf copy of the PCN to your computer
2. Open the downloaded pdf copy of the PCN
3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
4. Then click on the attached file.



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### Electrical Characteristics Summary:

Electrical characteristics will be provided upon request.

### List of Affected Parts:

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Current Part Number	New Part Number	Qualification Vehicle
NCV7710DQR2G	NCV7710DQBR2G	NCV7710DQBR2G