



Final Product/Process Change Notification

Document #:FPCN23658Z1

Issue Date:10 Jan 2022

Title of Change:	Update of FPCN23658Z: Wafer fab transfer to onsemi Gresham, Oregon USA from onsemi Fab2, Oudenaarde, Belgium related to Fab2 sale
Proposed Changed Material First Ship Date:	29 Jul 2022 or earlier if approved by customer
Current Material Last Order Date:	27 Aug 2021 <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>
Current Material Last Delivery Date:	28 Jul 2022 <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>
Product Category:	Active components – Integrated circuits
Contact information:	Contact your local onsemi Sales Office or Jelle.Genne@onsemi.com
PCN Samples Contact:	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.
Sample Availability Date:	13 Aug 2021
PPAP Availability Date:	13 Aug 2021
Additional Reliability Data:	Contact your local onsemi Sales Office or Catherine.DeKeukeleire@onsemi.com
Type of Notification:	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 PCN.Support@onsemi.com .
Change Category	
Category	Type of Change
Process - Wafer Production	Move of all or part of wafer fab to a different location/site/subcontractor, New wafer diameter
Data Sheet	Correction of data sheet / errata
Process - Assembly	Change of mold compound, Change of leadframe base material, Change of product marking

Description and Purpose:

This is an update of FPCN23658Z. These are the updates included in this FPCN document:

- Addition of Datasheet update relating to BST_REG_022
- Update change level category corresponding to include this Datasheet update
- Added visual representation of Part Marking change; Part Marking change was already included in FPCN23658Z
- Typo corrections: "Oudenaarde, Belgium" was added to Sites Affected list; Part Marking change was added to change level category

Wafer fab transfer to onsemi Gresham, Oregon USA from onsemi Fab2, Oudenaarde, Belgium related to Fab2 sale.

In addition, we move from QFN Assembly Wettable Flank processing to Step Cut processing with a new leadframe and mold compound. New OPN's will be created and the marking will have the fab indicator added. A data sheet update is also included with regards to parameter BST_REG_022.

	Before Change Description	After Change Description
Wafer Fab Location	Fab2 Oudenaarde, Belgium	Gresham Fab, Oregon
Wafer Diameter	Substrate: Si (150mm) 6"	Substrate: Si (200mm) 8"
Wettable flank	SFS	SLP
Leadframe	OL703-001: LF 24L QFN5x5 MM 0.65 MM. pitch OL703-002: LF 24L QFN 4X4	OL703-003: LF QFN 24L 149.6X149.6 AG ETCH OL703-004: LF QFN24 4x4 SLP
Mold Compound	G770HCD MOLD COMPOUND	MC G700LTD
Part Marking	Without Fab Indicator	With Fab Indicator
Datasheet:	Rev. 0	Rev. 1
OPN	NCV78703MW0R2G	NCV78703MW0AR2G
	NCV78703MW1R2G	NCV78703MW1AR2G

Data Sheet Update

Update of datasheet parameter BST_REG_022.

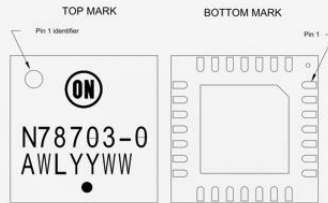
Booster regulation level Rev. 0	BST_REG_022	[BOOST_VSETPOINT =0010110], DC level	11	11.5	12	V
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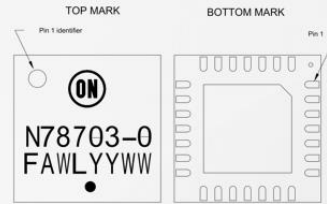
Booster regulation level Rev. 1	BST_REG_022	[BOOST_VSETPOINT =0010110], DC level	10.8	11.5	12.2	V
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Part Marking Update

Package:
24 lead QFN
5x5mm

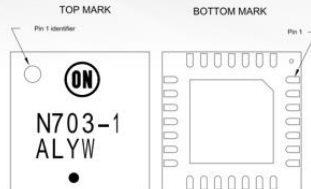


A = ASSEMBLY LOCATION
WL = WAFER LOT
YYWW = YEAR / WORK WEEK
● = Pb-Free Designator

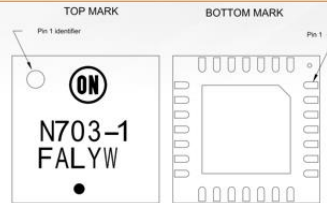


F = FAB LOCATION
0L703-003-ASY = 8 inch wafer = Gresham = G
A = ASSEMBLY LOCATION
WL = WAFER LOT
YYWW = YEAR / WORK WEEK
● = Pb-Free Designator

Package:
24 lead QFN
4x4mm



A = ASSEMBLY LOCATION
WL = WAFER LOT
YYWW = YEAR / WORK WEEK
● = Pb-Free Designator



F = Fab LOCATION
0L703-004-ASY = 8 inch = Gresham Fab = G
A = ASSEMBLY LOCATION
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6/17/21

Public Information

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

onsemi Oudenaarde, Belgium

onsemi, Gresham United States

External Foundry/Subcon Sites

UTAC, Thailand

Marking of Parts/ Traceability of Change:

Traceability guaranteed by datecode

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 are not impacted.

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
NCV78703MW0R2G	NCV78703MW0AR2G	0L703-600
NCV78703MW1R2G	NCV78703MW1AR2G	0L703-601