


PRODUCT / PROCESS CHANGE INFORMATION

1. PCI basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.	MDG/23/13817	
1.3 Title of PCI	BlueNRG-LPS (BlueNRG-332x) seal ring compatibility with WLCSP Package	
1.4 Product Category	BlueNRG-332x	
1.5 Issue date	2023-01-09	

2. PCI Team

2.1 Contact supplier	
2.1.1 Name	ROBERTSON HEATHER
2.1.2 Phone	+1 8475853058
2.1.3 Email	heather.robertson@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Ricardo Antonio DE SA EARP
2.1.2 Marketing Manager	Veronique BARLATIER
2.1.3 Quality Manager	Pascal NARCHE

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
General Product & Design	Die redesign: Mask or mask set change with new die design – seal ring modification (dimension, vertical structure)	TSMC Fab14 DIFF

4. Description of change

	Old	New
4.1 Description	Seal ring with square edges at each corner for dice in QFN32 package.	Seal ring with beveled edges at each corner for dice in QFN32 and WLCSP packages.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Form: Sealring change is not visible, No functional change, No marking change Fit: No change Function: No change	

5. Reason / motivation for change

5.1 Motivation	Seal Ring used for QFN32 is not compatible with WLCSP package. Beveled edge seal ring is mechanically more reliable for WLCSP and is compatible with QFN package. Uniformization of the seal ring is mandatory for manufacturing flexibility.
5.2 Customer Benefit	SERVICE IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	Traceability ensured by ST internal tools
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7. Timing / schedule

7.1 Date of qualification results	2023-03-22
7.2 Intended start of delivery	2023-03-31
7.3 Qualification sample available?	Not Applicable

8. Qualification / Validation

8.1 Description			
8.2 Qualification report and qualification results	In progress	Issue Date	

9. Attachments (additional documentations)

13817 Public product.pdf
13817 PCI13817_Additional information.pdf

10. Affected parts		
10.1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	BLUENRG-332AT	

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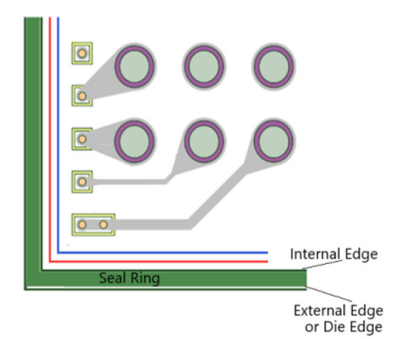
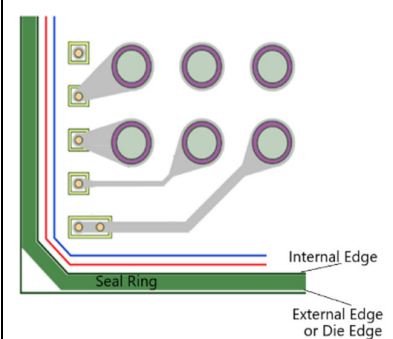
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**BlueNRG-LPS (BlueNRG-332x) seal ring compatibility with
WLCSP package**

MDG - Microcontrollers Division (MCD)

What is the change?

Square edge Seal Ring used for QFN32 is not compatible with WLCSP package. Beveled edge seal ring is mechanically more reliable for WLCSP and is also reliable for QFN package. Uniformization of the seal ring is mandatory for manufacturing flexibility.

	Current	New
Diffusion FAB	TSMC FAB14 (Taiwan)	
Seal ring	 <p>corner with square edges</p>	 <p>corner with beveled edges</p>
Marking	No marking change	



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Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

PCI Title : BlueNRG-LPS (BlueNRG-332x) seal ring compatibility with WLCSP Package

PCI Reference : MDG/23/13817

Subject : Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

BLUENRG-332AT	BLUENRG-332AC	
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