


PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	MDG/23/14099	
1.3 Title of PCN	Implementation of a PBO (Polybenzoxazole) protective layer over product passivation for STM8A (AUTOMOTIVE) listed products	
1.4 Product Category	STM8A	
1.5 Issue date	2023-06-22	

2. PCN 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
Wafer Fab (Process)	Change of top layer on die	ST Singapore

4. Description of change

	Old	New
4.1 Description	The wafer passivation layer has no protective layer.	Implementation of a PBO (Polybenzoxazole) protective layer on top of the wafer passivation layer is proposed to customer.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Reliability will be improved - PBO is a stress relief coating used as a protective layer for passivation layer.	

5. Reason / motivation for change

5.1 Motivation	Part of the strategy is to eradicate passivation damage on dice. A protective layer (PBO) on top of product passivation to be implemented to further reduce the baseline defectiveness level, and to protect versus possible quality excursions.
5.2 Customer Benefit	QUALITY 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	2023-09-07
7.2 Intended start of delivery	2023-09-07
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	14099 MDG-MCD_PBO_Implementation_Plan and context.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2023-06-22

9. Attachments (additional documentations)

14099 Public product.pdf
14099 MDG-MCD_PBO_Implementation_Plan and context.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
	STM8AF6246ITCY	
	STM8AF6246TCSSSX	
	STM8AF6246TCSSSY	
	STM8AF6246UAX	
	STM8AF6246UCX	
	STM8AF6266TAX	
	STM8AF6266TCX	
	STM8AF6266TCY	
	STM8AF6268TCY	



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

PCN Title : Implementation of a PBO (Polybenzoxazole) protective layer over product passivation for STM8A (AUTOMOTIVE) listed products

PCN Reference : MDG/23/14099

Subject : Public Products List

Dear Customer,

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

STM8AF6266ITCX	STM8AF6268TAX	STM8AF6246ITDY
STM8AF6246UAX	STM8AF6268TCY	STM8AF6246UCY
STM8AF6266TCY	STM8AF6266TCX	STM8AF6246ITDX
STM8AF6266TAX	STM8AF6248TCX	STM8AF6248TDX
STM8AF6226TASSSX	STM8AF6246UDY	STM8AF6268TDY
STM8AF6246TCSSSY	STM8AF6268TAY	STM8AF6266TAY
STM8AF6266TDY	STM8AF6226TASSSY	STM8AF6266UCX
STM8AF6266TDX	STM8AF6248TCY	STM8AF6246UDX
STM8AF6246TCSSSX	STM8AF6246ITCY	STM8AF6246UAY
STM8AF6366TCY	STM8AF6268TCX	STM8AF6366TCX
STM8AF6266ITCY	STM8AF6268TDX	STM8AF6246TASSSX
STM8AF6246TDSSSX	STM8AF6248TDY	STM8AF6246ITCX
STM8AF6248TAY	STM8AF6246TDSSSY	STM8AF6246UCX
STM8AF6246TASSSY		

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