

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	MDG/22/13308	
1.3 Title of PCN	ST Shenzhen (China) Assy & Test line upgrade for Automotive grade EEPROM products in SO8N	
1.4 Product Category	Automotive EEPROM products in SO8N	
1.5 Issue date	2022-03-10	

2. PCN Team

2.1 Contact supplier	
2.1.1 Name	KRAUSE INA
2.1.2 Phone	+49 89460062370
2.1.3 Email	ina.krause@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Benoit RODRIGUES
2.1.2 Marketing Manager	Hubert LEDUC
2.1.3 Quality Manager	Rita PAVANO

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Machines	(Not Defined)	ST Shenzhen (China)

4. Description of change

	Old	New
4.1 Description	Assembly & Test of Automotive EEPROM in SO8N package at ST Shenzhen (China) are upgraded from High Density (HD) strip test line...	...to Super High Density (SHD) strip test line. SHD Assembly line runs with higher parallelism and same assembly flow as current HD line. As continuous improvement, a step of plasma cleaning has been introduced between die attach and wire bonding. A rationalization of the leadframe dimensions has been done. SHD strip test line runs with higher parallelism and same test flow and test sequence as current HD line. SHD strip test line runs with same test equipment as current HD line.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Form: visual on package top side / backside - Fit: no change - Function: no change	

5. Reason / motivation for change

5.1 Motivation	Automotive grade EEPROM products in SO8N are widely used in high volume at all automotive customers and in all automotive applications. To maintain high level of service and to support high volume production on the long-term, ST has decided to switch Assembly & Test from High Density (HD) strip test line to Super High Density (SHD) strip test line. Both lines are installed in ST Shenzhen (China). SHD strip test line already produces very high-volume of EEPROM SO8N products for industrial market since year 2012. The strategy of the STMicroelectronics Memory division is to support our customers on product and service quality on a long-term basis. In line with this commitment, this change will secure long term availability and automotive SO8N capacity while improving product manufacturing quality.
5.2 Customer Benefit	QUALITY IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	N/A
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7. Timing / schedule	
7.1 Date of qualification results	2022-03-25
7.2 Intended start of delivery	2023-01-02
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation			
8.1 Description			
8.2 Qualification report and qualification results	In progress	Issue Date	

9. Attachments (additional documentations)
13308 Public product.pdf 13308 PCN Auto SO8N HD to SHD.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
	M24256-DRMN3TP/K	
	M24C04-DRMN3TP/K	
	M24C16-DRMN3TP/K	
	M24M01-DWMN3TP/K	
	M93C46-RMN3TP/K	
	M93C56-RMN3TP/K	
	M93C66-RMN3TP/K	
	M95128-DRMN3TP/K	
	M95512-DRMN3TP/K	

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