

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	ADG/22/13791	
1.3 Title of PCN	L5150CS (UN43): Assembly and Final Test Transfer to Bouskoura	
1.4 Product Category	L5150CSTR, L5150CS	
1.5 Issue date	2022-11-25	

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	Francesco MACINA
2.1.2 Marketing Manager	Salvatore ABBISSO
2.1.3 Quality Manager	Marcello Donato MENCHISE

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Assembly site (SOP 2617)	ST Bouskoura - Morocco receiving Plant

4. Description of change

	Old	New
4.1 Description	Assembly and Final Testing location Shenzhen	Assembly and Final Testing location Bouskoura
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No impact	

5. Reason / motivation for change

5.1 Motivation	ST Shenzhen SO8 package line closure June 30,2023
5.2 Customer Benefit	SERVICE CONTINUITY

6. Marking of parts / traceability of change

6.1 Description	Dedicated Finished Good code
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7. Timing / schedule

7.1 Date of qualification results	2023-02-24
7.2 Intended start of delivery	2023-03-31
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)

13791 Public product.pdf
13791 Details.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
	L5150CS	
	L5150CSTR	

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PRODUCT/PROCESS CHANGE NOTIFICATION

TITLE	L5150CS (UN43): Assembly and Final Test Transfer to Bouskoura																								
IMPACTED PRODUCTS	ST silicon lines UN43 diffused in BCD5 technology and assembled in SO8 package.																								
MANUFACT. STEP	Assembly and Electrical Final Test																								
INVOLVED PLANT	Recipient: ST Shenzhen Plant (China) Destination: ST Bouskoura Plant (Morocco)																								
CHANGE REASON	ST Shenzhen SO8 package line closure 30June2023: Service and Capacity improvement for business continuity. Manufacturing process optimization.																								
CHANGE DESCRIPTION	<p>Transfer of package assembly and electrical final test from current Shenzhen (China) to Bouskoura (Morocco) Plant. Package Bill of Material is subject to upgrade as per following table:</p> <table border="1" data-bbox="544 1113 1312 1486"> <thead> <tr> <th></th> <th>SHENZHEN</th> <th>BOUSKOURA</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>GLUE</td> <td>ABLESTIK 8601S-25</td> <td>ABLESTIK 8601S-25</td> <td>same</td> </tr> <tr> <td>FRAME</td> <td>94x125 Mt HD NiThPdAgAu</td> <td>94x125 SSHD IDF SpAg</td> <td>different</td> </tr> <tr> <td>LEAD FINISHING</td> <td>e4</td> <td>e3</td> <td>different</td> </tr> <tr> <td>RESIN</td> <td>SUMITOMO EME-G700KC</td> <td>SUMITOMO EME-G700KC</td> <td>same</td> </tr> <tr> <td>WIRE</td> <td>Au D1.0</td> <td>Au D1.0</td> <td>same</td> </tr> </tbody> </table>		SHENZHEN	BOUSKOURA	Notes	GLUE	ABLESTIK 8601S-25	ABLESTIK 8601S-25	same	FRAME	94x125 Mt HD NiThPdAgAu	94x125 SSHD IDF SpAg	different	LEAD FINISHING	e4	e3	different	RESIN	SUMITOMO EME-G700KC	SUMITOMO EME-G700KC	same	WIRE	Au D1.0	Au D1.0	same
	SHENZHEN	BOUSKOURA	Notes																						
GLUE	ABLESTIK 8601S-25	ABLESTIK 8601S-25	same																						
FRAME	94x125 Mt HD NiThPdAgAu	94x125 SSHD IDF SpAg	different																						
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RESIN	SUMITOMO EME-G700KC	SUMITOMO EME-G700KC	same																						
WIRE	Au D1.0	Au D1.0	same																						
TRACEABILITY	Dedicated Finished Good code (internal part number).																								
VALIDATION	<p>According to ZVEI Delta Qualification Matrix corresponding to following selected items:</p> <ul style="list-style-type: none">  SEM-PA-04 Change of lead frame finishing material / area (internal)  SEM-PA-18 Move all or parts of production to a different assembly site  SEM-TF-01 Move of all or part of electrical wafer test and/or final test to a different test site <p>leading to the following reliability qualification plan:</p>																								



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	Temperature Humidity Bias or biased HAST	Autoclave or Unbiased HAST	Temperature Cycling	Power Temperature Cycling	High Temperature Storage Life	High Temperature Operating Life	Early Life Failure Rate	Wire Bond Shear	Wire Bond Pull	Solderability	Physical Dimensions	Lead Integrity	Electrical Distribution	Short Circuit Characterization	Lead free	Whisker test	Parameter-Analysis: Comparison of current with changed device characterization, electrical distribution	For Cu Wire Products: Consider AEQ-Q006
	THB	AC	TC	PTC	HTSL	HTOL	ELFR	WBS	WBP	SD	PD	LI	ED	SC	LF			
	A2	A3	A4	A5	A6	B1	B2	C1	C2	C3	C4	C6	E5	E10	E12			
	•	•	•	-	•	•	•	•	•	•	•	•	•	-	•	•	•	•
	<p>Above plan is implemented with following exceptions:</p> <ul style="list-style-type: none"> ✚ A5 Power Temperature Cycling: not performed (not done during original qualification) ✚ B2 Early Life Failure Rate: limited to one qualification lot (not relevant for package related aspects) ✚ E10 Short Circuit Characterization: not performed (not done during original qualification) – current limit test I_{LIM} done at final test (100% production) 																	
CURRENT PRODUCTS	Replaced by new version featuring new Plant and upgraded package																	
REPORTS	Qualification activity ongoing, Complete Availability by wk8/2023																	



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 : L5150CS (UN43): Assembly and Final Test Transfer to Bouskoura

PCN Reference : ADG/22/13791

Subject : Public Products List

Dear Customer,

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

L5150CS	L5150CSTR	
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