

## PRODUCT / PROCESS CHANGE NOTIFICATION

### 1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.		ADG/21/12684
1.3 Title of PCN		SPC58x (FC70,FC80): TQFP-144 Package Update (Capacity Increase)
1.4 Product Category		see list
1.5 Issue date		2021-03-15

### 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	Luca RODESCHINI
2.2.2 Marketing Manager	Matteo MOIOLI
2.2.3 Quality Manager	Alberto MERVIC

### 3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Materials	(Not Defined)	ST Kirkop (Malta)

### 4. Description of change

	Old	New
4.1 Description	Lead Frame Single Row Lead Frame Finishing Ni/Pd/Au (PrePlatedFrame) Mold Compound SUMITOMO EME G700LS	Lead Frame Dual Row Lead Frame Finishing Ni/Pd/Au-Ag (PrePlatedFrame) Mold Compound SUMITOMO EME G700SLS-A
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No Impact	

### 5. Reason / motivation for change

5.1 Motivation	Capacity increase (from single to dual row leadframe)
5.2 Customer Benefit	CAPACITY INCREASE

### 6. Marking of parts / traceability of change

6.1 Description	Dedicated Finished Good Codes
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### 7. Timing / schedule

7.1 Date of qualification results	2021-06-30
7.2 Intended start of delivery	2021-07-15
7.3 Qualification sample available?	Upon Request

### 8. Qualification / Validation

8.1 Description	
8.2 Qualification report and qualification results	In progress

### 9. Attachments (additional documentations)

<b>10. Affected parts</b>		
<b>10.1 Current</b>		<b>10.2 New (if applicable)</b>
<b>10.1.1 Customer Part No</b>	<b>10.1.2 Supplier Part No</b>	<b>10.1.2 Supplier Part No</b>
	SPC584B70E5EHC0X	
	SPC58EC80E5QMC0Y	

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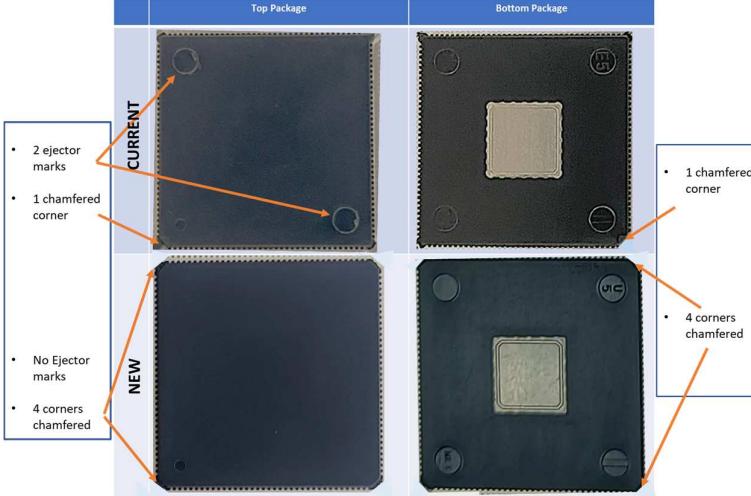
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## PRODUCT/PROCESS CHANGE NOTIFICATION

<b>TITLE</b>	SPC58x (FC70,FC80): TQFP-144 Package Update (Capacity Increase)												
<b>IMPACTED PRODUCTS</b>	ST silicon lines FC70 (Chorus2M) and FC80 (Chorus4M) assembled in TQFP 144 20x20x1.0 ExpadDown package												
<b>MANUFACT. STEP</b>	Assembly												
<b>INVOLVED PLANT</b>	ST Kirkop Plant (Malta)												
<b>CHANGE REASON</b>	Capacity increase (from single to dual row leadframe)												
<b>CHANGE DESCRIPTION</b>	<p>Package upgrade based on bill of material improvements:</p> <table border="1"> <thead> <tr> <th>MATERIAL</th> <th>CURRENT</th> <th>NEW</th> </tr> </thead> <tbody> <tr> <td><b>LF Frame Matrix</b></td><td>Single Row</td><td>Dual Row</td></tr> <tr> <td><b>LF Finishing</b></td><td>PPF Ni-Pd-Au</td><td>PPF Ni-Pd-AuAg</td></tr> <tr> <td><b>Resin</b></td><td>G700SLS</td><td>G700SLS-A</td></tr> </tbody> </table> <p>New leadframe matrix leads to different package visual appearance, as per below picture:</p>  <p>The image shows four package views arranged in a 2x2 grid. The top row shows the 'Top Package' and 'Bottom Package' for the 'CURRENT' leadframe matrix. The bottom row shows the same packages for the 'NEW' leadframe matrix. Callouts on the left side point to the 'CURRENT' row, and callouts on the right side point to the 'NEW' row. The 'CURRENT' row lists: '2 ejector marks', '1 chamfered corner', 'No Ejector marks', and '4 corners chamfered'. The 'NEW' row lists: '1 chamfered corner' and '4 corners chamfered'.</p>	MATERIAL	CURRENT	NEW	<b>LF Frame Matrix</b>	Single Row	Dual Row	<b>LF Finishing</b>	PPF Ni-Pd-Au	PPF Ni-Pd-AuAg	<b>Resin</b>	G700SLS	G700SLS-A
MATERIAL	CURRENT	NEW											
<b>LF Frame Matrix</b>	Single Row	Dual Row											
<b>LF Finishing</b>	PPF Ni-Pd-Au	PPF Ni-Pd-AuAg											
<b>Resin</b>	G700SLS	G700SLS-A											
<b>TRACEABILITY</b>	Dedicated Finished Good code (internal part number)												

## VALIDATION

According to ZVEI Delta Qualification Matrix based on AEC-Q100:

## CURRENT PRODUCTS

Replaced by new version featuring upgraded package

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**REPORTS**

Activity in progress. Qualification Report expected by June 2021

## IMPLEMENT

Change activation requested upon qualification completion (June 2021)



## 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 :** SPC58x (FC70,FC80): TQFP-144 Package Update (Capacity Increase)

**PCN Reference :** ADG/21/12684

**Subject :** Public Products List

Dear Customer,

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

SPC584B60E5EDC0X	SPC584B70E5EHC0X	SPC58EC80E5EMC0X
SPC58EC80E5QMC0Y	SPC58EC80E5QMC0X	SPC584B60E5CD00X
SPC584B70E5NMC0X	SPC584B70E5CD00X	SPC584B70E5NHC0X
SPC584B70E5EMC0X	SPC58EC80E5FMC0X	



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