

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.		MMS/15/9441
1.3 Title of PCN		Amkor ATP (Philippines) new leadframe - LQFP 28x28 208L products
1.4 Product Category		Products in LQFP 208 28x28x1.4 package assembled in Amkor ATP (Philippines).
1.5 Issue date		2015-11-25

2. PCN Team

2.1 Contact supplier	
2.1.1 Name	MARSHALL DAVE
2.1.2 Phone	
2.1.3 Email	dave.marshall@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Michel BUFFA
2.1.2 Marketing Manager	Daniel COLONNA
2.1.3 Quality Manager	Pascal NARCHE

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Materials	New direct material part number (same supplier, different supplier or new supplier), lead frame, resin, wire, ...)	Amkor ATP (Philippines)

4. Description of change

	Old	New
4.1 Description	Leadframe : - Supplier : LGI (China) - Description : Pure Sn / Double ring Ag - Slots : Without - Pad size : 6.5sq - Effective Pad size : 6.5sq	New Leadframe : - Supplier : MHT (Japan) - Description : Pure Sn / Double ring Ag - Slots : With - Pad size : 7.72sq - Effective Pad size : 6.8sq
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	no change	

5. Reason / motivation for change

5.1 Motivation	LGI leadframe supplier stops its activity in China. Consequently leadframe supplier changes from LGI (China) to MHT (Japan). Moreover, ST Microcontrollers Division takes the opportunity of this change to improve package robustness by inserting slots on lead frame die pad to better anchor the molding compound into the frame.
5.2 Customer Benefit	QUALITY IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	Traceability of the change is ensured by ST internal tools.
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7. Timing / schedule

7.1 Date of qualification results	2016-03-18
7.2 Intended start of delivery	2016-04-18
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	9441_reliability plan_LQFP28x28 ATP M10_419-451 RERMCD1518 for new LF slots MHT.pdf
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8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2015-11-25
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9. Attachments (additional documentations)

<p>9441PpPrdtLst.pdf 9441_Detailed description.pdf 9441_reliability plan_LQFP28x28 ATP M10_419-451 RERMCD1518 for new LF slots MHT.pdf</p>
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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
2503267	STM32F439BGT6	
2503285	STM32F746BET6	

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