


PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	AMG/17/10492	
1.3 Title of PCN	Introduction of the HBIP40 technology for the L79xx series (5V, 12V and 15V Output Voltage versions) - Linear Voltage Regulators	
1.4 Product Category	L79xx series (see attached file for full list of part numbers)	
1.5 Issue date	2017-10-24	

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	Lorenzo NASO
2.1.2 Marketing Manager	Marcello SAN BIAGIO
2.1.3 Quality Manager	Jean-Marc BUGNARD

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Die redesign	Mask or mask set change with new die design	Front end : ST Ang Mo Kio (Singapore)

4. Description of change

	Old	New
4.1 Description	LAAT Technology	HBIP40 Technology
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No changes in term of Quality and Reliability. Negligible changes in the Electrical Characteristics (see Datasheet).	

5. Reason / motivation for change

5.1 Motivation	<p>Following Divisional commitment towards a continuous improvement philosophy, a more fine geometry Bipolar technology has been qualified in ST called HBip40. As already done for the L78xx series, ST is going to use this improved technology to redesign the L79xx Linear Voltage Regulator series also.</p> <p>Electrical characteristics remain unchanged. Quality and Reliability parameters are still guaranteed at the same level as in the past. Small differences in the Short Circuit Current value (see details in the datasheet) further minimize the risk of circuitry damage in case of Short Circuit conditions, especially to those devices connected downstream of our IC.</p> <p>The new L79 series (see involved part numbers) in HBip40 will be produced taking into account the change of Back Metal Conversion from Cr/Ni/Au to Cr/Ni/Ag already announced with the PCN AMG/16/9855 [Back Metal Conversion from Cr/Ni/Au to Cr/Ni/Ag for Bipolar Technology in Ang Mo Kio (Singapore) FE plant] .</p> <p>The above changes will increase our flexibility on confirming orders that will be translated in a better service to our Customers.</p> <p>Samples of L7912CV and L7912CV-DG are available for customer evaluation. The other versions will come later and according to customer requests.</p>
5.2 Customer Benefit	SERVICE IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	The traceability of the HBIP40 Technology parts will be ensured by a different internal codification and QA number
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7. Timing / schedule

7.1 Date of qualification results	2017-10-05
7.2 Intended start of delivery	2018-01-25
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	10492 REL 6088-149-W-2015_FLG_LQ1201_L7912CV_TO220 SG_HBIP40.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2017-10-24

9. Attachments (additional documentations)

10492 Public product.pdf
10492 REL 6088-149-W-2015_FLG_LQ1201_L7912CV_TO220 SG_HBIP40.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
L7905CV	L7905CV	
	L7912ACV	
	L7915CP	
L7915CV	L7915CV	

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