



## Final Product/Process Change Notification

Document #:FPCN22959X

Issue Date:12 Feb 2020

<b>Title of Change:</b>	Samsung Chemical Solder Pin Qualification for Power Integrated Module (PIM) products.	
<b>Proposed First Ship date:</b>	19 May 2020 or earlier if approved by customer.	
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or < <a href="mailto:Way-Shan.Yong@onsemi.com">Way-Shan.Yong@onsemi.com</a> >	
<b>PCN Samples Contact:</b>	Contact your local ON Semiconductor Sales Office or < <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> >. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or < <a href="mailto:Phine.Guevarra@onsemi.com">Phine.Guevarra@onsemi.com</a> >	
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>	
<b>Marking of Parts/ Traceability of Change:</b>	No change in marking	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>ON Semiconductor Sites</b>	<b>External Foundry/Subcon Sites</b>	
ON Semiconductor Shenzhen, China	None	
<b>Description and Purpose:</b>		
<p>This FPCN announces the qualification of Samsung solder pins for GENIII product as alternate to Interplex solder pins.</p> <p>The change is planned at ON Semiconductor Shenzhen, China.</p> <p>Upon the expiration of this PCN, PIM modules production at ON Semiconductor Shenzhen will use either Interplex or Samsung pins for GENIII module production.</p> <p>Products has been qualified to industrial requirements and meeting customer pin press-in requirements.</p>		
	<b>Before Change Description</b>	<b>After Change Description</b>
<b>Module Lead Attach Pins</b>	Interplex pins only	Interplex and Samsung pins
There is no product marking change as a result of this change.		

**Reliability Data Summary:**

QV DEVICE NAME : NXH160T120L2Q2F2SG

RMS : K58642

Package : Q2Pack

Test	Specification	Condition	Interval	Result
TC	JESD22-A104	- 40°C to 125°C, Temperature soak = 30 min, Transition time = 20 min max	100 cyc	0/11
VVF	JESD22-B103	Perform 25-500Hz/15min 10G, with 2hrs for X-axis, 2hrs for Y-axis, 2hrs for Z-axis	6hrs	0/11

**Electrical Characteristics Summary:**

Electrical characteristics are not impacted

**List of Affected Parts:**

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [\*\*PCN Customized Portal\*\*](#).

Part Number	Qualification Vehicle
NXH450N65L4Q2F2SG	NXH160T120L2Q2F2SG