



<b>Title of Change:</b>	AHPM DSC&DSB 750V/800A Device DBC 2nd source supplier KCC qualification
<b>Proposed Changed Material First Ship Date:</b>	08 Jul 2022 or earlier if approved by customer
<b>Current Material Last Order Date:</b>	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>
<b>Current Material Last Delivery Date:</b>	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>
<b>Product Category:</b>	Active components – Integrated circuits
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Daisy.Zhi@onsemi.com">Daisy.Zhi@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local ON Semiconductor Sales Office to place sample order or <a href="mailto:PCN.samples@onsemi.com">&lt;PCN.samples@onsemi.com&gt;</a> . Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
<b>Sample Availability Date:</b>	N/A
<b>PPAP Availability Date:</b>	N/A
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Frank.Tuan@onsemi.com">Frank.Tuan@onsemi.com</a>
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. ON Semiconductor will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> .
<b>Change Category</b>	
<b>Category</b>	<b>Type of Change</b>
Process - Assembly	Change of direct material supplier

**Description and Purpose:**

Qualify KCC DBC for business continue due to original supplier EOL in Jun'21

	Before Change Description	After Change Description
Package Substrate	DBC Supplier: TongHsing, DBC structure: Cu-Al <sub>2</sub> O <sub>3</sub> +9%ZrO <sub>2</sub> -Cu	DBC Supplier: KCC, DBC structure: Cu-Al <sub>2</sub> O <sub>3</sub> +10.5%ZrO <sub>2</sub> -Cu

There is no product marking change as a result of this change



<b>Reason / Motivation for Change:</b>	Supply disruption
<b>Anticipated impact on fit, form, function, reliability, product safety or manufacturability:</b>	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by ON Semiconductor in relation to the PCN, associated risks are verified and excluded.  No anticipated impacts.
<b>Sites Affected:</b>	
<b>ON Semiconductor Sites</b>	<b>External Foundry/Subcon Sites</b>
ON Semiconductor Suzhou, China	None
<b>Marking of Parts/ Traceability of Change:</b>	Marking no change and traceability based on date code

**Reliability Data Summary:**

QV DEVICE NAME NVG800A75L4DSC

RMS: U77744

PACKAGE: AHPM15

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	-40°C to +125°C, t dwell>15 min, 1000 Cycles	1000 cyc	78/78, All Pass
H3TRB	JESD22-A101	85°C, 85% RH, V=80% Vce max., 1000 Hours	1008hours	18/18, All pass

**NOTE: AEC-1paper is attached.**

To view attachments:

1. Download pdf copy of the PCN to your computer
2. Open the downloaded pdf copy of the PCN
3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
4. Then click on the attached file

**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**.

Current Part Number	New Part Number	Qualification Vehicle
NVG800A75L4DSC	NA	NVG800A75L4DSC
NVG800A75L4DSB	NA	NVG800A75L4DSC