



## Final Product/Process Change Notification

Document #:FPCN23038ZB

Issue Date:10 Dec 2021

<b>Title of Change:</b>	ICD2PAK 3LD mold compound qualification from G600 to G700HF.	
<b>Proposed Changed Material First Ship Date:</b>	31 Jul 2022 or earlier if approved by customer	
<b>Current Material Last Order Date:</b>	30 Jun 2022 <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>	30 Jul 2022 <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 onsemi Sales Office or <a href="mailto:AhmadFaris.Dzulkipli@onsemi.com">AhmadFaris.Dzulkipli@onsemi.com</a>	
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office to place sample order or < <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</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>	15 Dec 2021	
<b>PPAP Availability Date:</b>	03 Jan 2022	
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:AbdulRasyid.Ruslan@onsemi.com">AbdulRasyid.Ruslan@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. onsemi 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 mold compound, Change of encapsulation/sealing material	
<b>Description and Purpose:</b>		
This Product Change Notification is to announce the Mold compound change from G600 to G700HF for better delamination improvement.		
	<b>Before Change Description</b>	<b>After Change Description</b>
Mold Compound	G600	G700HF
There is no product marking change as a result of this change.		
<b>Reason / Motivation for Change:</b>	Process/Materials Change	
<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 onsemi in relation to the PCN, associated risks are verified and excluded.  No anticipated impacts.	



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<b>Sites Affected:</b>	
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>
onsemi Seremban, Malaysia	None
<b>Marking of Parts/ Traceability of Change:</b>	Changed material will be identified by date code.

## Reliability Data Summary:

QV DEVICE NAME: NCV8674DS120G (Analog, Regulator)

RMS# : S51903

PACKAGE : D2PAK 3LD

Test	Specification	Condition	Interval	Result
HAST	JESD22 A110	130°C/85% RH , ~18.8 psig	192 hrs	0/231
HTSL	JESD22-A103	Ta = 150 °C	2016 hrs	0/231
HTOL	JESD22 A108	TA=125°C	1008 hrs	0/231
TC	JESD22-A104	Ta = -65°C to +150°C	500 cyc	0/231
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 245 °C		0/693
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/90
SD	JSTD002	Ta = 245°C, 10 sec		0/45

**NOTE: AEC-1pager 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/s

## 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
NCV7808ABD2TR4G	N/A	NCV8674DS120G
NCV8674DS120R4G	N/A	NCV8674DS120G
NCV7812BD2TR4G	N/A	NCV8674DS120G
NCV8674DS50R4G	N/A	NCV8674DS120G
NCV317BD2TR4G	N/A	NCV8674DS120G
NCV4274ADS50R4G	N/A	NCV8674DS120G



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NCV565D2T12R4G	N/A	NCV8674DS120G
NCV7805BD2TR4G	N/A	NCV8674DS120G
NCV7808BD2TR4G	N/A	NCV8674DS120G
NCV7809BD2TR4G	N/A	NCV8674DS120G