



Final Product/Process Change Notification

Document #: FPCN22523ZB

Issue Date: 15 Aug 2021

Title of Change:	Qualification of non conductive die attach epoxy ABLESTIK 8900NC in TSOP5, TSOP6, US8, SC82 and SOT23A devices as an alternative to the current non-conductive epoxy Hitachi EN4370K3 due to end of life.
Proposed Changed Material First Ship Date:	15 Feb 2022 or earlier if approved by customer
Current Material Last Order Date:	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>
Current Material Last Delivery Date:	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>
Product Category:	Active components – Integrated circuits
Contact information:	Contact your local onsemi Sales Office or Shannon.Riggs@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order or < PCN.samples@onsemi.com >. 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.
Sample Availability Date:	N/A
PPAP Availability Date:	N/A
Additional Reliability Data:	Contact your local onsemi Sales Office or MohdHairwan.MdNor@onsemi.com
Type of Notification:	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 PCN.Support@onsemi.com .

Change Category

Category

Type of Change

Description and Purpose:

This update notice is to inform customers of part addition to the previous FPCN22523X series. NCS20081SN3T1G was released after this die attach change was originally announced, so customers were not informed of the change.

The information below is from the previous notification and is repeated for customer convenience:

onsemi would like to inform its customers of the qualification of non-conductive die attach epoxy Ablestik 8900NC for products listed in this Final Product Change Notification (FPCN). This epoxy will replace the current non-conductive die attach epoxy Hitachi EN4370K3 due to end of life. At the end of the FPCN approval cycle, these products will be using epoxy Ablestik 8900NC as the die attach epoxy Hitachi EN4370K3 is no longer available.

There are no changes for test.

For assembly, BOM change associated with this FPCN is shown here.

	Before Change Description	After Change Description
Die Attach	Non-conductive epoxy Hitachi EN4370K3	Non-conductive epoxy Ablestik 8900NC

Reason / Motivation for Change:	Source/Supply/Capacity Changes Process/Materials Change		
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	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.		
Sites Affected:			
onsemi Sites		External Foundry/Subcon Sites	
ON Semiconductor Seremban, Malaysia		None	
Marking of Parts/ Traceability of Change:	Materials assembly with new material will be identified by date code.		

Reliability Data Summary:

QV DEVICE NAME : NCV551SN30T1G
RMS 548691
PACKAGE TSOP5

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
PTC	JESD22-A105	Ta=-40°C to +125°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE NAME : NCS2002SN1T1G
RMS 548812
PACKAGE TSOP6

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/252
AC	JESD22-A118	121°C, 100% RH, 15psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/756
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE NAME : NCV305LSQ20T1G
RMS 548688
PACKAGE SC82

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
AC	JESD22-A118	121°C, 100% RH, 15psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/504
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE NAME : NCV51460SN33T1G
 RMS S48792
 PACKAGE SOT23

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
UHAST	JESD22-A118	130°C, 85% RH, 18.8 psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/504
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE NAME : NLV7SB3257DTT1G
 RMS S48908
 PACKAGE SC82

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/252

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

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
NCV20081SN3T1G	N/A	NCV551SN30T1G & NLV7SB3257DTT1G



Appendix A: Changed Products

PCN#: FPCN22523ZB
Issue Date: Aug 15, 2021

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCV20081SN3T1G		NCV551SN30T1G & NLV7SB3257DTT1G	N/A	