



## Final Product/Process Change Notification

Document #:FPCN21520ZI

Issue Date: 06 Oct 2023

<b>Title of Change:</b>	Transfer of ONC25 technology to onsemi Aizu, Japan from current site onsemi Gresham, United States for NCV8730 and NCV8711 family.	
<b>Proposed Changed Material First Ship Date:</b>	13 Apr 2024 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 onsemi Sales Office or <a href="mailto:Jan.Gryzbon@onsemi.com">Jan.Gryzbon@onsemi.com</a>	
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office to place sample order. 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>	29 Sep 2023	
<b>PPAP Availability Date:</b>	29 Sep 2023	
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Vladislav.Hrachovec@onsemi.com">Vladislav.Hrachovec@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 - Wafer Production	Move of all or part of wafer fab to a different location/site/subcontractor	
Equipment	Production from a new equipment/tool which uses the same basic technology (replacement equipment or extension of existing equipment pool) without change of process.	
<b>Description and Purpose:</b>		
<p>This final notification announces the Transfer of ONC25 technology to onsemi Aizu, Japan from current site onsemi Gresham, United States.</p> <p>The onsemi Aizu, Wafer Fab located at Aizuwakamatsu, Japan has been qualified to process the ONC25 CMOS process.</p> <p>Tool sets are different but the exact same masking layers and steps are being used in the Aizu Fab.</p> <p>This change is implemented to mitigate potential supply disruption; customers are encouraged to urgently review this change in order to minimize any potential impact to their supply chain.</p>		
	<b>From</b>	<b>To</b>
<b>Wafer Fab Site</b>	onsemi, Gresham, United States	onsemi, Aizu, Japan
There is no product marking change as a result of this change		

<b>Reason / Motivation for Change:</b>	Source/Supply/Capacity Changes				
<b>Anticipated impact on fit, form, function, reliability, product safety or manufacturability:</b>	<p>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.</p> <p>No anticipated impacts.</p>				
<b>Sites Affected:</b>					
<b>onsemi Sites</b>			<b>External Foundry/Subcon Sites</b>		
onsemi Aizu, Japan			None		
<b>Marking of Parts/ Traceability of Change:</b>	The affected products will be identified with date code and custom source.				
<b>Reliability Data Summary:</b>  <b>QV DEVICE NAME:</b> NCV8730ASN330T1G <b>RMS:</b> S90290, S90289 <b>PACKAGE:</b> TSOP5					
	<b>Test</b>	<b>Specification</b>	<b>Condition</b>	<b>Interval</b>	<b>Results</b>
	High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/240
	Early Life Failure Rate	JESD22-A108	Ta=125°C, 100 % max rated Vcc	48 hrs	0/2400
	Highly Accelerated Stress Test		130°C, 85% RH, 18.8psig, biased	96 hrs	0/240
	Temperature Cycling	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/240
	Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
	Human Body Model (HBM)	JS001	2kV		pass
	Charge Device Model (CDM)	JS002	1kV		pass
	Latch-up (LU)	AEC-Q100-004, JESD78	Class II		pass
	Electrical distribution	ON Data Sheet			pass
<b>Note: AEC-1pager is attached.</b>  <i>To view attachments:</i> 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.					
<b>Electrical Characteristics Summary:</b>  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
NCV8730ASNADJT1G	NA	NCV8730ASN330T1G
NCV8730ASN500T1G	NA	NCV8730ASN330T1G
NCV8711ASN330T1G	NA	NCV8730ASN330T1G
NCV8730ASN330T1G	NA	NCV8730ASN330T1G
NCV8711BMTWADJTBG	NA	NCV8730ASN330T1G
NCV8730BMTW500TBG	NA	NCV8730ASN330T1G
NCV8730BMTWADJTBG	NA	NCV8730ASN330T1G
NCV8730BMTW330TBG	NA	NCV8730ASN330T1G
NCV8711ASN500T1G	NA	NCV8730ASN330T1G
NCV8711ASNADJT1G	NA	NCV8730ASN330T1G
NCV8730ASN180T1G	NA	NCV8730ASN330T1G
NCV8711BMTW330TBG	NA	NCV8730ASN330T1G
NCV8730BMTW1500TBG	NA	NCV8730ASN330T1G
NCV8711ASN300T1G	NA	NCV8730ASN330T1G