



Final Product/Process Change Notification

Document #:FPCN24739Z

Issue Date:13 Jun 2022

Title of Change:	Addition of onsemi, Seremban, Malaysia (onsemi, SBN) for assembly and test of NCV8177AMTW family for capacity flexibility.
Proposed Changed Material First Ship Date:	20 Dec 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 Milos.Dvorak@onsemi.com
PCN Samples Contact:	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.
Sample Availability Date:	20 Jun 2022
PPAP Availability Date:	30 Jun 2022
Additional Reliability Data:	Contact your local onsemi Sales Office or Vladislav.Hrachovec@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
Process - Assembly	Move of all or part of assembly to a different location/site/subcontractor.

Description and Purpose:

onsemi would like to inform our customers of the addition of onsemi, Seremban, Malaysia (onsemi, SBN) for assembly and test of NCV8177AMTW family to enable capacity flexibility. Product bill of material changes are shown in the table below, and all products continue to meet electrical specification requirements listed in the product datasheet. This change is for capacity flexibility, so future deliveries will be sourced from onsemi, SBN, or any of the previously qualified assembly & test locations at the discretion of our supply chain.

	From	To	
Assembly Site	UTL (Thailand)	UTL (Thailand)	onsemi Seremban, Malaysia
Die Attach	AB 8600 CONDUCTIVE	AB 8600 CONDUCTIVE	AB 8008HT
Mold Compound	G700LTD	G700LTD	G770HMD

There are no changes of form, fit, or device function as a result of this change.

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

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	
onsemi Seremban, Malaysia			None	
Marking of Parts/ Traceability of Change:	The affected products will be identified with date code.			
Reliability Data Summary: QV DEVICE NAME: NCV8177AMTW330TCG RMS: S78250, S78251, S78252 PACKAGE: WDFN8				
Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/240
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/240
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/240
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only		0/all
NOTE: AEC-1pager is attached. <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				
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
NCV8177AMTW120TCG-A642	NA	NCV8177AMTW330TCG
NCV8177AMTW110TCG-A642	NA	NCV8177AMTW330TCG
NCV8177AMTW090TCG-A642	NA	NCV8177AMTW330TCG
NCV8177AMTW330TCG	NA	NCV8177AMTW330TCG
NCV8177AMTW280TCG	NA	NCV8177AMTW330TCG
NCV8177AMTW180TCG	NA	NCV8177AMTW330TCG
NCV8177AMTW120TCG	NA	NCV8177AMTW330TCG
NCV8177AMTW110TCG	NA	NCV8177AMTW330TCG
NCV8177AMTW090TCG	NA	NCV8177AMTW330TCG
NCV8177AMTW085TCG	NA	NCV8177AMTW330TCG