



Final Product/Process Change Notification

Document #:FPCN24712Z

Issue Date:13 May 2022

Title of Change:	Addition of ASM roughened PPF lead frame after supply disruption of DCI supplier combined with depletion of inventory.	
Proposed Changed Material First Ship Date:	27 Jul 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 Bernard.Blanchet@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:	02 May 2022	
PPAP Availability Date:	N/A	
Additional Reliability Data:	Contact your local onsemi Sales Office or Daniel.Vanderstraeten@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	Change of direct material supplier, Change of lead frame finishing material / area (internal)	
Description and Purpose:		
While the language of the FPCN is to wait 90 days until shipments of first material, as there is no inventory of DCI lead frame or finished goods the deliveries will start immediately after receiving FPCN approval or Orders Authority (OA). If a customer does not wish to receive product from the new lead frame supplier, he should take action to cancel or push out all future orders. onsemi cannot provide material from DCI lead frame supplier at that time. Customer should work with their local sales contacts to cancel or push orders as needed.		
	From	To
Leadframe supplier	DCI	ASM or DCI
Leadframe type	Standard PPF NiPdAu leadframe	Rough PPF NiPdAu leadframe (ASM) or Standard PPF NiPdAu leadframe (DCI)
Reason / Motivation for Change:	Supply disruption	
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.	



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Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
onsemi Carmona, Philippines	None
Marking of Parts/ Traceability of Change:	Date code

Reliability Data Summary:

QV DEVICE NAME: NCV7705DQAR2G

RMS# : 037388 & 039088

PACKAGE: SSOP36

Test	Specification	Condition	Interval	Results
PTC	JESD22-A105	-40°C to +125°C	1000 cyc	0/45
HTSL	JESD22-A103	Ta= 150°C	1000 hrs	0/135
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
HAST	JESD22-A110	110°C, 85% RH, 18.8psig, bias	264 hrs	0/231
UHAST	JESD22-A102	110°C, 85% RH, 18.8psig, unbiased	264 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 3@ 260 °C		0/all
WBS	AEC Q100-001	Cpk > 1.67		0/15
SD	JSTD002			0/45
WBP	Mil-Std-883 method 2011	Condition D. 0 fails or Cpk>1.67		0/15

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
SCV7710DQR2G	NA	NCV7705DQAR2G
NCV7710DQR2G	NA	NCV7705DQAR2G
NCV7707DQBR2G	NA	NCV7705DQAR2G
NCV7707DQR2G	NA	NCV7705DQAR2G