



Final Product/Process Change Notification

Document #:FPCN25070ZC

Issue Date:22 May 2024

Title of Change:	Qualification of new lead frame with A194ESH base material for specific QFN devices in onsemi Seremban, Malaysia.
Proposed Changed Material First Ship Date:	29 Nov 2024 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 YongChin.Wong@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:	21 Jun 2024
PPAP Availability Date:	31 May 2024
Additional Reliability Data:	Contact your local onsemi Sales Office or MohdAzizi.Azman@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 leadframe base material
Description and Purpose:	
onsemi is announcing the qualification of A194ESH Base Material and adding AAMI (Advanced Assembly Materials) supplier for selected QFN devices in onsemi Seremban, Malaysia.	
This change will be implemented to mitigate supply disruption as the current supplier has ceased operation and can no longer support Last Time Buy.	
onsemi has a very limited supply of the current lead frame and customers are encouraged to review this change in order to minimize any potential impact to their supply chain.	
Once the existing inventory of the current lead frame has been depleted, onsemi will immediately implement the new lead frame.	
Customers not wishing to receive material assembled with the new lead frame will need to work with their local sales contact to push out orders.	
Upon implementation of this change, any of the qualified suppliers will be used to support demand.	

	From (DCI)	To (DCI or AAMI)	
Leadframe supplier	DCI	DCI	AAMI
Base Material	C194FH	C194FH	A194ESH
Plating Type	Ni, Pd, Au	Ni, Pd, Au	Ni, Pd, Au
Roughed	Non-Roughed	Non-Roughed	Roughed

NOTE: There is no product marking change and product traceability will be maintained by lot and date code.

Reason / Motivation for Change:	Supply disruption,Process/Materials Change,Source/Supply/Capacity Changes
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	<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>

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Seremban, Malaysia	None

Marking of Parts/ Traceability of Change:	Product traceability will be maintained by date code.
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Reliability Data Summary:

QV DEVICE NAME: NVT211DMTR2G (Supplier: AAMI)

PACKAGE: WDFN2020-8L

RRF: 91877

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/22
TC	JESD22-A104	Ta= - 65°C to +150°C	500 cyc	0/84
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/84
RSH	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only		0/10
SD	JSTD002	Ta = 245°C, 5 sec		0/15

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



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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
NVT211DMTR2G	NA	NVT211DMTR2G
NVT211CMTR2G	NA	NVT211DMTR2G
NVT210CMTR2G	NA	NVT211DMTR2G