



Final Product/Process Change Notification

Document #:FPCN25070XH

Issue Date:21 Apr 2024

Title of Change:	Qualification of new lead frame with A194ESH base material for specific QFN Devices in onsemi Seremban, Malaysia.
Proposed First Ship date:	28 Jul 2024 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or YongChin.Wong@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
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. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	Product traceability will be maintained by date code.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

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

Description and Purpose:

onsemi is announcing the qualification of new lead frame with A194ESH base material for 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.

	From	To
LeadFrame Supplier	DCI	AAMI
Base Material	C194 FH	A194 ESH
Plating Type	Ni, Pd, Au	Ni, Pd, Au
Roughed	Non-Roughed	Roughed

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



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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

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](#).

Part Number	Qualification Vehicle
NLAS5223BMNR2G	NVT211DMTR2G
NS5A4684SMNTBG	NVT211DMTR2G



Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NLAS5223BMNR2G		NVT211DMTR2G	NLAS5223BMNR2G	
NS5A4684SMNTBG		NVT211DMTR2G	NS5A4684SMNTBG	