



Final Product/Process Change Notification

Document #:FPCN24698XA

Issue Date:10 May 2023

Title of Change:	Lead Frame Vendor and Design change for X2QFN34 Product Assembled in UTAC (UTL) , Bangkok, Thailand.
Proposed First Ship date:	15 Aug 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Eric.Rupnow@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 Shiela.Crosby@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:	Affected product will be identified with date code.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change
Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
None	UTAC, Thailand

Description and Purpose:

This is an FPCN to notify customers that onsemi has completed qualification of a new vendor for the leadframe in the X2QFN34 package assembled at the UTAC, Bangkok Thailand location for the product listed in this announcement. The CWTC vendor has discontinued their leadframe and new leadframe will be sourced by Rokko.

As a result, the following changes will occur:

	Before Change Description	After Change Description
LeadFrame	Lead frame vendor CWTC with 0.30-1.2 microinch bottom plating	Lead frame vendor Rokko with 1.38 microinch bottom plating and minor leadframe dimension changes not impacting package outline dimensions.

There is no product marking change as a result of this change nor any change to package outline drawing.



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Reliability Data Summary:

QV DEVICE NAME NB7NPQ7042MMUTWG

RMS 85331

PACKAGE X2QFN34

Test	Specification	Condition	Interval	Results
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
Solderability	JSTD002	Ta = 245°C, 5 sec		0/ 45
Physical Dimensions	JESD22-B120			0/30

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
NB7NPQ7042MMUTWG	NB7NPQ7042MMUTWG