



Final Product/Process Change Notification

Document #:FPCN24652XA

Issue Date: 29 Sep 2022

Title of Change:	UTAC Thailand Assembly site expansion.			
Proposed First Ship date:	05 Jan 2023 or earlier if approved by customer			
Contact Information:	Contact your local onsemi Sales Office or Naruedol.Srisamran@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:	No change in marking			
Change Category:	Assembly Change			
Change Sub-Category(s):	Manufacturing Site Addition			
Sites Affected:				
onsemi Sites	External Foundry/Subcon Sites			
None	UTAC, Thailand			
Description and Purpose:				
onsemi would like to notify customers of the qualification of UTAC Thailand Bangsamak site as alternative assembly site by applying same machine model and same material.				
	Before Change Description	After Change Description		
Assembly Site	UTAC Thailand Bangkok site	UTAC Thailand Bangkok site (site1) and UTAC Thailand Bangsamak site (Site3)		
Reliability Data Summary:				
QV DEVICE NAME: NB7NQ621MMUTWG				
RMS: O83498				
PACKAGE: X2QFN				
Test	Specification	Condition	Interval	Result
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/77
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/77
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020, JESD-A113	MSL 1 @ 260 °C		0/245
SD	JSTD002	Ta = 245C, 5 sec		0/15
PD	JESD22 B100,B108	Critical Cpk>1.67		0/30



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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**.

Part Number	Qualification Vehicle
NB7VPQ904MMUTWG	NB7NQ621MMUTWG
NB7NQ621MMUTWG	NB7NQ621MMUTWG
NB7NPQ7222MMUTXG	NB7NQ621MMUTWG
NB7NPQ7022MMUTXG	NB7NQ621MMUTWG

Appendix A: Changed Products

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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NB7VPQ904MMUTWG		NB7NQ621MMUTWG		