



Final Product/Process Change Notification

Document #:FPCN24705X

Issue Date:04 Aug 2022

Title of Change:	UTAC Thailand Bangsamak Assembly site expansion
Proposed First Ship date:	09 Nov 2022 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 on marking. Traceability will be maintained by manufacturing lot number
Change Category:	Assembly Change
Change Sub-Category(s):	Manufacturing Site Addition

Sites Affected:

onsemi Sites

None

External Foundry/Subcon Sites

UTAC, Thailand

Description and Purpose:

Add UTAC Thailand Bangsamak site as alternative assembly site by applying same machine model and same material for QFN package.

	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: NCP81140MNTXG

RMS: 83848

PACKAGE: QFN

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/80
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/80
PC	J-STD-020, JESD-A113	MSL 1 @ 260 °C		0/160
SD	JSTD002	Ta = 245C, 5 sec		0/15
PD	JESD22 B100,B108	Critical Cpk>1.67		0/30



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QV DEVICE NAME: NCN5120MNTWG

RMS: 83847

PACKAGE: QFN

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/80
uHAST	JESD22-A118	110°C, 85% RH, 18.8psig, unbiased	264 hrs	0/80
PC	J-STD-020, JESD-A113	MSL 3 @ 260 °C		0/160
SD	JSTD002	Ta = 245C, 5 sec		0/15
PD	JESD22 B100,B108	Critical Cpk>1.67		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
NCP81142MNTXG	NCP81140MNTXG
NCP81141MNTXG	NCP81140MNTXG
NCP81101BMNTXG	NCP81140MNTXG
NCP81101MNTXG	NCP81140MNTXG
NCP81101MNTWG	NCP81140MNTXG
NCP81119MNTXG	NCP81140MNTXG
NCP81119AMNTXG	NCP81140MNTXG
NCP81102MNTXG	NCP81140MNTXG
NCP81241MNTXG	NCP81140MNTXG
NCP81201MNTXG	NCP81140MNTXG
NCP81148MNTWG	NCP81140MNTXG
NCP81038MNTWG	NCP81140MNTXG
NCP81172MNTXG	NCP81140MNTXG
NCP81140MNTXG	NCP81140MNTXG
NCN5110MNTWG	NCN5120MNTWG
NCN5121MNTWG	NCN5120MNTWG



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NCN5130MNTWG	NCN5120MNTWG
NCN5120MNTWG	NCN5120MNTWG