



Final Product/Process Change Notification

Document #:FPCN25672X

Issue Date: 27 Sep 2023

Title of Change:	NCP81296MNTXG and NCP81292MNTXG Assembly Capacity Expansion in UTL1.
Proposed First Ship date:	15 Jan 2024 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or mitch.paris@onsemi.com and 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 Chielo.Basa@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:	The affected products will be identified with date code
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:

Add new Assembly site in UTL1 with new die attach, mold compound, lead frame, wire/ clip, and solder paste.

	From	To
Assembly Site	MY1, Seremban	MY1, Seremban UTL1 (TH3), UTAC Thailand
Lead Frame	EFTEC64T Ag Spot Plating	MY1: EFTEC64T Ag Spot Plating UTL1: C194 Ag Spot Plating
Die Attach	DAF Lintec LE5003 NC	MY1: DAF Lintec LE5003 NC UTL1: DAF HR-5104-25
Mold Compound	G770H TYPE CD	MY1: G770H TYPE CD UTL1: G700LTD
Wire / Clip	CuPd 1.3mils / Cu Clip TAMAC-4	MY1: CuPd 1.3mils /Cu Clip TAMAC-4 UTL1:CuPdAu 1.3mils / Cu Clip TAMAC-4

There is no product marking change because of this change.



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Reliability Data Summary:

QV DEVICE NAME: NCP81296MNTXG

RMS: O52339

PACKAGE: QFN 5x5 32L

Test	Specification	Condition	Interval	Result
HTOL	JESD22 A108	TA=125C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80
PC	J STD 020, JESD22-A113	IR reflow at 260C		0/240
HAST-PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100% of rated V or 100V max	192 hrs	0/80
TC+PC	JESD22-A104	Temp = -65°C to +150°C; for 500 cycles	500 cyc	0/80
uHAST+PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/80
SAT	12MSB17722C	Compare for Delamination before and after PC	End pts	0/25
SD	JESD22 B102	TA= 245 C		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
NCP81292MNTXG	NCP81296MNTXG
NCP81296MNTXG	NCP81296MNTXG

Appendix A: Changed Products

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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP81292MNTXG		NCP81296MNTXG	N/A	
NCP81296MNTXG		NCP81296MNTXG	N/A	