



## Final Product/Process Change Notification

Document #:FPCN25673X

Issue Date: 27 Sep 2023

<b>Title of Change:</b>	NCP81295MNTXG Assembly Capacity Expansion in UTL1.
<b>Proposed First Ship date:</b>	15 Jan 2024 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Mitch.Paris@onsemi.com">Mitch.Paris@onsemi.com</a> and <a href="mailto:Naruedol.Srisamran@onsemi.com">Naruedol.Srisamran@onsemi.com</a>
<b>PCN Samples Contact:</b>	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.
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Chielo.Basa@onsemi.com">Chielo.Basa@onsemi.com</a>
<b>Type of Notification:</b>	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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>
<b>Marking of Parts/ Traceability of Change:</b>	The affected products will be identified with date code
<b>Change Category:</b>	Assembly Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition
<b>Sites Affected:</b>	
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>
None	UTAC, Thailand

### Description and Purpose:

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

	From	To
<b>Assembly Site</b>	MY1, Seremban	MY1, Seremban UTL1 (TH3), UTAC Thailand
<b>Lead Frame</b>	EFTEC64T Ag Spot Plating	MY1: EFTEC64T Ag Spot Plating UTL1: C194 Ag Spot Plating
<b>Die Attach</b>	DAF Lintec LE5003 NC	MY1: DAF Lintec LE5003 NC UTL1: DAF HR-5104-25
<b>Mold Compound</b>	G770H TYPE CD	MY1: G770H TYPE CD UTL1: G700LTD
<b>Wire / Clip</b>	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
NCP81295MNTXG	NCP81296MNTXG

Appendix A: Changed Products

PCN#: FPCN25673X  
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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP81295MNTXG		NCP81296MNTXG		