

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 <u>mitch.paris@onsemi.com</u> and <u>Naruedol.Srisamran@onsemi.com</u>		
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 <u>PCN.Support@onsemi.com</u>		
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	То	
Assambly Sita	MV1 Scromban	MY1, Seremban	
Assembly site	WITT, Seremban	UTL1 (TH3), UTAC Thailand	
Lead Frame	EETECGAT As Spot Plating	MY1: EFTEC64T Ag Spot Plating	
	EFTEC04T Ag Spot Flatting	UTL1: C194 Ag Spot Plating	
Die Attach	DAE Lintoc LE5002 NC	MY1: DAF Lintec LE5003 NC	
	DAF LINEC LESOUS NC	UTL1: DAF HR-5104-25	
Mold Compound		MY1: G770H TYPE CD	
	G770H TTPE CD	UTL1: G700LTD	
Wire / Clip	CuPd 1.3mils /	MY1: CuPd 1.3mils /Cu Clip TAMAC-4	
	Cu Clip TAMAC-4	UTL1:CuPdAu 1.3mils / Cu Clip TAMAC-4	

There is no product marking change because of this change.

TEM001793 Rev. F



Reliability Data Summary:

QV DEVICE NAME: NCP81296MNTXG RMS: 052339 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 сус	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