



Initial Product/Process Change Notification

Document #:IPCN23436X

Issue Date:21 Aug 2020

Title of Change:	P2 ETS364 Test Enablement at UTL for NCP81239/A (Turnkey) Package: QFN32 5*5*0.9 mm.	
Proposed First Ship date:	01 Jan 2021 or earlier if approved by customer	
Contact Information:	Contact your local ON Semiconductor Sales Office or Jolo.Manga@onsemi.com	
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office or PCN.samples@onsemi.com 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.	
Type of Notification:	This is an Initial Product/Process Change Notification (IPCEN) sent to customers. An IPCEN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCEN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact PCN.Support@onsemi.com	
Marking of Parts/ Traceability of Change:	Test origin can be distinguished thru the Serial# portion on the MPN label: PO is for OSPI-Carmona & GU is for UTAC Thailand.	
Change Category:	Test Change	
Change Sub-Category(s):	Manufacturing Site Addition	
Sites Affected:		
ON Semiconductor Sites	External Foundry/Subcon Sites	
None	UTAC, Thailand	
Description and Purpose:		
	Before Change Description	After Change Description
Location	ON Semiconductor Philippines Inc. – Carmona	ON Semiconductor Philippines Inc.– Carmona UTAC Thailand Ltd. (TH6)
There are no product material changes as a result of this change.		
There is no product marking change as a result of this change		



Qualification Plan:

Qual Plan was not performed as this is for Test Change only.

Qualification Items/Steps	Quality Characteristic / Response to be Monitored (Input, in-process, Output)	Test /Condition	Sample Size	Accept Criteria / Result	Results Summary - Pass/Fail
Key Parameter Electrical Distribution Comparison (Carmona & Cebu)	Between Carmona and UTL: <ul style="list-style-type: none"> • Correlation • GRR • Repeatability • Spike Check • Cpk 	FT Room Temp 25°C	16, 1 unit per site 16, 1 unit per site 16, 1 unit x 100 loop 1 unit 1 site only Lot qty	<10% on critical items <10% CP >10 No more than AMR >1.67	Pass Pass Pass Pass Pass
Reject Bin Analysis	KBU or Escape rate	FT Room Temp 25°C	All KBU or ESC	Bin out correctly	Pass
Test (Yield, GDPW, Correlation, etc.)	Test fresh lots on each qual vehicle	FT Room Temp 25°C	Yield validation: 3 lots (3000 units ea) Correlation: 1 lot (1000 units)	90% Yield min, and 1% max difference, base from Carmona	Pass
Electrical QA	Auto QA process per lot	FT Room Temp 25°C	500 units per lot	0 QA reject	Pass

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
NCP81239MNTXG	NCP81239MNTXG
NCP81239AMNTXG	NCP81239MNTXG