



Final Product/Process Change Notification

Document #:FPCN24212X

Issue Date:21 Jan 2022

Title of Change:	NCP4305 SOIC full turnkey qualification in HANA	
Proposed First Ship date:	28 Apr 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or PetrCDC.Valek@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 Chiolo.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:	Change can be traced through the assembly trace code. The trace code marking on Line 2 is of the form ALYW, where A = Assembly location, L = Wafer Lot ID and YW is a 2-digit date code. Product marked with "H" as the assembly location will be from HANA.	
Change Category:	Assembly Change, Test Change	
Change Sub-Category(s):	Manufacturing Site Addition	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
None	HANA Semiconductor, Thailand	
Description and Purpose:		
onsemi would like to inform its customers of qualifying the NCP4305 family of products for assembly and testing at HANA, Thailand. At the expiry of this FPCN, product may be sourced from either its current site, OSPI (onsemi Carmona, Philippines) or HANA, Thailand.		
	Before Change Description	After Change Description
LeadFrame	LeadFrame AG CU 0.090 X0.090	LeadFrame AG CU 0.090 X0.090 / SOIC 8L 90X90 UHD CU-AG RT SINGLE RING
Die Attach	Sumitomo CRM-1191A	Sumitomo CRM-1191A / EN4900LC-18
Bond Wire	Au 1mils	Au 1mils / CuPdAu 1mils
Mold Compound	MC EME G600	MC EME G600 / CV8214C
Assembly Site	onsemi Carmona, Philippines	onsemi Carmona, Philippines / HANA
	onsemi Carmona, Philippines	HANA
Product marking change	Trace Code Line 2: P(LYW)	H(LYW)
Please see the datasheet for more information on trace code Nomenclature.		



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Reliability Data Summary:

QV DEVICE NAME: NCP4305ADR2G

RMS: 078397

PACKAGE: SOIC 8

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta= -65°C to + 150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 3 @ 260°C		0/693
SD	JSTD002	Ta = 245°C, 10 sec		0/45
PD	JESD22-B100 and JESD22-B108	Per Case Outline		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
NCP4305DDR2G	NCP4305ADR2G