



Final Product/Process Change Notification

Document #:FPCN24653X

Issue Date: 04 May 2022

Title of Change:	Qualification of NCP12401 Family into ATXKS (formerly ASEKS) as part of the SOIC7 capacity expansion from onsemi Carmona, Philippines.
Proposed First Ship date:	11 Aug 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Jiri.Konarik@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 Shiela.Crosby@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:	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 "AK" as the assembly location will be from ATXKS. Additionally the label on the box and reel will show ASSY LOC: CV, which will also indicate the product was assembled in ATXKS. Please see the sample label on Page 2 at the following URL http://www.onsemi.com/pub/Collateral/LABELRM-D.PDF to see the location of the ASSY LOC: call out.
Change Category:	Test Change, Assembly Change
Change Sub-Category(s):	Manufacturing Site Addition

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	ATXKS, China

Description and Purpose:

onsemi would like to notify customers of the qualification of ATXKS (formerly ASEKS) for full turnkey of the devices listed in this FPCN.

This is a capacity expansion and at the expiry of the FPCN, these products may be dual sourced from either ATXKS or from the previously qualified site, onsemi Carmona, Philippines.

All package dimensions will be within the existing onsemi published package case outline shown in the datasheet.

	Before	After	
Assembly Site	onsemi Carmona, Philippines	onsemi Carmona, Philippines	ATXKS, China
Die Attach	CRM-1076WB	CRM-1076WB	EN-4900GC
Mold Compound	G600	G600	CEL9240
Wire Material/Size	1.0mil PdCu*	1.0mil PdCu*	1.0mil Au
Lead Frame	Cu Ag Spotted 90x90 (Pin 7 removed)	Cu Ag Spotted 90x90 (Pin 7 removed)	Cu Ag Spotted 102x102 (Pin 7 Removed)
Test Site	onsemi Carmona, Philippines	onsemi Carmona, Philippines	ATXKS, China

*PdCu is currently qualified under FPCN24061X

Product will be marked with an assembly location code in the trace code (line 2). Please see page 1 of the datasheet for more information about the assembly location code.



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Reliability Data Summary:

QV DEVICE NAME: NCL30388A1DR2G

RMS: O58893, P58222

PACKAGE: SOIC-8 P7

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=110°C, 100% max rated Vcc	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/693
RSH	JESD22- B106	Ta = 265C, 10 sec		0/45
SD	JSTD002	Ta = 245C, 5 sec		0/30

QV DEVICE NAME: NCP12400BAHAB0DR2G

RMS: O61243

PACKAGE: SOIC-8 P7

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/231

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
SCY99290ADR2G	NCP12400BAHBB0DR2G, NCL30388A1DR2G
NCP12401EBEAB0DR2G	NCP12400BAHBB0DR2G, NCL30388A1DR2G
NCP12401CBEAB0DR2G	NCP12400BAHBB0DR2G, NCL30388A1DR2G