



Final Product/Process Change Notification  
 Document #:FPCN23840XH1  
 Issue Date:29 Dec 2021

<b>Title of Change:</b>	Update to IPCN23040XH-Bump and Backend Site Transfer from FCI to ASE-KH to include change details on bill of materials
<b>Proposed First Ship date:</b>	05 Apr 2022 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Wayne.Cheng@onsemi.com">Wayne.Cheng@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
<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>	Parts using the ASE-KH bump flow will be identified by a new plant code
<b>Change Category:</b>	Assembly Change, Bump Site Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Transfer

**Sites Affected:**

onsemi Sites	External Foundry/Subcon Sites
None	ASEKH, Taiwan (Kaohsiung)
	Flipchip International, USA

**Description and Purpose:**

This is a notice to customer about material changes

	Before Change Description	After Change Description
Bump Site	Flipchip International, USA	ASEKH, Taiwan (Kaohsiung)
Structure	1P1M	1P1M
P1 Material	BCB or PBO(CRC-2348)	HD4000E
M1 Material	AlNiVCu or Cu	Cu
Solder ball Material	SAC266 or SAC305	SAC405

Reason for Change: To increase manufacturing capacity to support short and long term demand.

The assembly site code will change on the product top mark as a result of this change.

	From	To
Product marking change	F = FCI	R = ASEKH+SBN
Product marking change	FCI use 3 digit code(YWW)	SBN use 2 digit code(YW)



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### Qualification Plan:

QV DEVICE NAME: NCP6343XFCCT1G

RMS: 75832

PACKAGE: WLCSP.

Test	Specification	(not to exceed Max rated)	Interval	Result
TC-PC	JESD22-A104	Temp = -40°C to +125°C; for 850 cycles	850 cyc	0/77
HAST-PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100% of rated V or 100V max	96 hrs	0/77
uHAST-PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PD		per maketing outline drawing	20units/lots	PASS

### 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
NCP2823BFCT2G	NCP6343XFCCT1G
NCP2823BFCT1G	NCP6343XFCCT1G
NCP2823AFCT2G	NCP6343XFCCT1G
NCP2817BFCCT2G	NCP6343XFCCT1G
NCP2811BFCCT1G	NCP6343XFCCT1G
NCP6360FCCT2G	NCP6343XFCCT1G
NCP6343XFCCT1G	NCP6343XFCCT1G

**Appendix A: Changed Products**

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP2823BFCT2G		NCP6343XFCCT1G	NA	
NCP2823BFCT1G		NCP6343XFCCT1G	NA	
NCP2823AFCT2G		NCP6343XFCCT1G	NA	
NCP2817BFCT2G		NCP6343XFCCT1G	NA	
NCP6360FCCT2G		NCP6343XFCCT1G	NA	