



Final Product/Process Change Notification

Document #:FPCN23872XA

Issue Date:06 Jan 2022

Title of Change:	NUF2441FCT1G bump transfer from FCI to JCAP
Proposed First Ship date:	13 Apr 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or GhiCheong.Heng@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 Nicky.Siu@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:	Parts using the JCAP bump flow will be identified by a assembly site code & date code
Change Category:	Bump Site Change, Assembly Change
Change Sub-Category(s):	Manufacturing Site Transfer

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	Flipchip International, USA
	JCAP, China

Description and Purpose:

This final notification is to inform customers the NUF2441FCT1G bump site transfer from FCI to JCAP.

	Before Change Description	After Change Description
Bump Site	Flipchip International, USA	JCAP, China
Bump Structure	1M	PI+CSP
PI1 Material	BCB	HD4100
PI CD	250um	200um
Barrier/ Seed Layer	Al / NiV / Cu	1.0kA Ti/ 4.0kA Cu
UBM Material	Sputter	Plated Cu
UBM Thickness	10KÅ / 3.45KÅ / 8.35KÅ	7.5um
Solder Ball Height	240um	236um



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Reliability Data Summary:

QV DEVICE NAME: NUF2441FCT1G

RMS: S76260 (3* Qual lots)

PACKAGE: WLCSP-6, 1.72x1.22mm, 0.5P

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta= 125°C, 100% max rated V	1008 hrs	0/240
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/252
TC	JESD22-A104	Ta= -40°C to +125°C	1700 cyc	0/252
HAST	JESD22-A110	110°C, 85% RH, 18.8psig, bias	264 hrs	0/252
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
SBS	JESD22- B117A	CPK ≥ 1.67	-	0/90
PD	JESD22- B100	Per specification	-	0/30

Electrical Characteristics Summary:

Electrical parameters & ESD meet specification as per datasheet.

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
NUF2441FCT1G	NUF2441FCT1G