



Final Product/Process Change Notification

Document #:FPCN23735XA

Issue Date:12 Jan 2022

Title of Change:	Qualification of ASE foundry for WLCSP and onsemi Cebu site for probe and assembly. Carrier tape dimensions are changed and include corner relief.	
Proposed First Ship date:	19 Apr 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Jeremy.Ferris@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 Rob.Travis@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:	Changed Parts will be identified by a new plant code.	
Change Category:	Bump Site Change, Test Change, Assembly Change	
Change Sub-Category(s):	Manufacturing Site Transfer, Shipping/Packaging/Marking	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Cebu, Philippines	ASEKH, Taiwan (Kaohsiung)	
onsemi Niigata, Japan		
onsemi Seremban, Malaysia		
Description and Purpose:		
This Product Change Notification is to announce the Qualification of ASE foundry for WLCSP and onsemi, Cebu site for probe and assembly. Carrier tape dimensions are changed and include corner relief.		
	Before Change Description	After Change Description
WLCSP Bump/Backgrind/Backside Coating location	onsemi, Niigata Japan	Subcontractor ASEKH, Kaohsiung Taiwan
Final Test and Assembly Site	onsemi, Seremban Malaysia	onsemi, Cebu Philippines
Under Bump Metal Composition	Ni/Au	Cu
Backside Coating	ADWILL LC2821 (LINTEC)	ADWILL LC2850 (LINTEC)
Pocket Dimension	Ao = 1.07 +/-0.05mm Bo = 1.42 +/-0.05mm Ko = 0.74 +/-0.05mm	Ao = 1.20 +/-0.05mm Bo = 1.45 +/-0.05mm Ko = 0.69 +/-0.05mm
Pocket Design	No corner relief	With Corner relief
	From	To
Product marking change	onsemi Malaysia: R	onsemi, Cebu Philippines: D



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Qualification Plan:

QV DEVICE NAME : FPF2498BUCX

RMS : 74804

PACKAGE : WLCSP

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -40°C to +125°C	850 cyc	0/77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @260 °C		0/231
SD	JSTD002	Ta = 245C, 5 sec		0/5
PD	Per outline	Per outline drawing	20 units	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
FPF2498BUCX	FPF2498BUCX