onsemi

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 onse	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 <u>Rob.Travis@onsemi.com</u>			
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 <u>PCN.Support@onsemi.com</u>			
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	onsemi, Niigata Japan Subcontractor ASEKH, Kaohsiung Taiwa	
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 Ao = 1.20+/-0.05 bn Bo = 1.42 +/-0.05mm Bo = 1.45+/-0.05 Ko = 0.74 +/-0.05mm Ko = 0.69+/-0.05		
Pocket Design	No corner relief	With Corner relief	

Product marking change onsemi Malaysia: R onsemi, Cebu Ph

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Qualification Plan:

QV DEVICE NAME : FPF2498BUCX RMS : <u>74804</u>

PACKAGE . WL	.CJF			
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



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FPF2498BUCX		FPF2498BUCX		