

Title of Change:	Cebu WLCSP Laser Marking X&Y Coordinates Implementation
Effective date:	03 Dec 2021
Contact information:	Contact your local onsemi Sales Office or Michelle.Lyn.Alaba@onsemi.com
Type of notification:	This Product Bulletin is for notification purposes only. onsemi will proceed with implementation of this change upon publication of this Product Bulletin.
Change Category:	Assembly Change, Additional of marking coordinates for die unit traceability verification.
Change Sub-Category(s):	Shipping/Packaging/Marking

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Cebu, Philippines	None

Description and Purpose:

CEBU WLCSP LASER X&Y COORDINATES IMPLEMENTATION

	From	To
<p>Product marking change</p> <p>(Additional Line 3 for the X & Y Coordinates including the Wafer ID #)</p>	<p>Line 1: 1 2 Two Digit Device Code KK Two Digit Lot Run Code</p> <p>Line 2: ● Pin 1 Mark XY Two Digit Date Code Z Assembly Plant Code</p>	<p>Line 1: 1 2 Two Digit Device Code KK Two Digit Lot Run Code</p> <p>Line 2: ● Pin 1 Mark XY Two Digit Date Code Z Assembly Plant Code</p> <p>Line 3: Additional XX-YY Map Coordinate C.C. Wafer ID #</p>

There are no product material changes as a result of this change.

There is no product marking change as a result of this change, but additional Line 3 for the X & Y Coordinates including the Wafer ID #.

Reliability Data Summary:

DOE LEGS		Output Response			
		Font Thickness	Visual(naked eye) Visual Inspection	Offset Marking	TNR Marking Legibility
Change FROM:		Pass(thickness 52um)	30/30 Pass Character Readable	16/16 units Pass	100/100 units Pass. Legible Marking @ TNR
Change TO:		Pass(thickness 52um)	30/30 Pass Character Readable	16/16 units Pass	100/100 units Pass. Legible Marking @ TNR

Remarks: All legs show no anomaly during running of the following marking coordinate marking lay out.

Estimated date for qualification completion: 3 December 2021

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

List of Affected Standard 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](#).

FSA9688CUCX	FSA646UCX	FSA646AUCX
FSA644UCX	FSA644BUCX	FSA636UCX
FSA634UCX	FSA4485UCX	FSA4480UCX
FSA4476UCX	FPF3042UCX	FPF2895UCX
FPF2487UCX	FAN54511AUCX	FAN53880UC002X
FAN53555BUC23X	FAN53555BUC08X	FAN48623UC315X