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PRODUCT INFORMATION NOTIFICATION

PIN: PIN172901

Date: July 19, 2017

Subject: Qualification of OSE-Taiwan as an Additional Test and Finish Site for 44L TSOP Products

To: TOKYO ELECTRON DEVICE

Change Type: Minor

Description of Change:

Cypress announces the qualification of package-level test and finish operations at Orient Semiconductor Electronics, Ltd. (OSE) in Kaohsiung, Taiwan for 44L TSOP products. There will be no changes to the tester platforms, test program coverage or test methodologies.

OSE Taiwan is one of the world's leading electronics contract manufacturing service providers. This qualification will enable OSE Taiwan to do Test and Finish manufacturing of 44L TSOP products and leverage OSE's manufacturing expertise and quality focus. This change is part of the flexible manufacturing initiative which allows Cypress to meet its delivery commitments in dynamic, changing market conditions.

OSE Taiwan will use the same Cypress qualified materials except for carrier tape. OSE Taiwan recommends using the carrier tape from Hwa Shu, a local vendor which is also a Cypress qualified supplier. Hwa Shu's recommended carrier tape is exactly the same as the Cypress qualified carrier tape. Hwa Shu's carrier tape also passed the Cypress qualification requirements. See below carrier tape comparison.

Vendor	Status	Pocket Design (mm)	Pocket Length (mm)	Pocket Width (mm)	Pocket Depth (mm)	Pocket Pedestal Depth (mm)
Advantek	Current	Pedestal type	19.0 ± 0.1	12.4 ± 0.1	2.1 ± 0.1	1.3 ± 0.1
Hwa Shu	Newly qualified	Pedestal type	19.0 ± 0.1	12.4 ± 0.1	2.1 ± 0.1	1.3 ± 0.1

Benefit of Change:

This change will provide a turnkey solution for these products that are being manufactured in other Cypress' subcontractors. This will provide faster delivery of products to Cypress customers.

Affected Part Numbers: 54

Affected Parts: See the attached 'Affected Parts List' file for a list of all part numbers affected by this notification. Note that any new parts that are introduced after the publication of this PIN will include all changes outlined in this PIN.

Qualification Status:

The changes listed in this PIN have been qualified through a series of tests documented in the Qualification Test Plan (QTP) reports 171201 and 164602. The QTP reports can be found attached to this PCN or by visiting www.cypress.com and typing the QTP number in the keyword search window.

Approximate Implementation Date:

This change will be implemented from the date of this notification. All shipments of the affected part numbers listed above will be tested and finished at OSE Taiwan or at other approved test and finish sites.

Anticipated Impact:

Products that will be tested at OSE Taiwan will be completely compatible with existing products from a functional, parametric, and quality performance perspective.

Cypress also recommends that customers take this opportunity to review these changes against current application notes, system design considerations and customer environment conditions to assess impact (if any) to their application.

Method of Identification:

Cypress maintains traceability of product to wafer level, including wafer fabrication location, through the lot number marked on the package.

Response Required:

This is an information only announcement. No response is required.

For additional information regarding this change, contact your local sales representative or contact the PCN Administrator at pcn_adm@cypress.com.

Sincerely,

Cypress PCN Administration