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PRODUCT CHANGE NOTIFICATION

PCN: PCN145349

Date: December 16, 2014

Subject: Qualification of an Alternative Tray for 44-Lead TSOP II Product Shipments

To: HIRONO KAKINUMA
CYPRESS INTERNAL
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Change Type: Minor

Description of Change:

Cypress has qualified a new tray (supplied by Daewon) intended for 44-lead TSOP II product shipments. The new tray will serve as an alternative tray source. The tray pocket dimensions are specially modified to improve the unit placement and the stability needed during assembly until product shipment. The table below summarizes the tray pocket dimension comparison:

Items	Existing Tray	Newly Qualified Tray
Tray Manufacturer	Kostat	Daewon
Tray Part Number	TSOP 44 II/ TZ54-II	TSOP 44 -2/TR142050 / MPPO
Top Pocket Width	12.11 +/-0.25mm	12.11+/- 0.13mm
Top Pocket Length	18.88 +/- 0.25mm	18.88 +/- 0.08mm
Top Pocket Depth	1.91 +/-0.25mm	1.91 +/- 0.10mm
Number of units per tray	135	135

No changes were made to the following attributes:

- # Temperature rating
- # Unit orientation in tray
- # Tray material
- # Color
- # Stacking height
- # Length and width
- # JEDEC compliance

Benefit of Change:

The Daewon tray will serve as an alternative tray source for 44-lead TSOP II product shipments.

Affected Part Numbers: 59

Affected Parts: Please refer to the attached 'Affected part list' file.

Qualification Status:

This alternative tray for 44-lead TSOP II package has been qualified through a series of tests identified in the Qualification Test Plan (QTP) Report 142505. The QTP report can be found as an attachment to this notification or by visiting www.cypress.com and typing the QTP number in the keyword search window.

Sample Status:

Tray samples are available. Please contact your sales representative as soon as possible, but within 30 days of the date of this PCN, to place any tray sample orders.

Approximate Implementation Date:

This change will be implemented 90 days from the date of this notification. Effective 90 days from the date of this notification, all shipments of the affected part numbers will be supplied with either Daewon or Kostat trays.

Anticipated Impact:

The new tray is non-stackable with the existing tray. Therefore, it is not recommended to combine new and existing trays during processing in the equipment. Cypress also recommends that customers review these changes against their current pick and place programs and equipment parameters to assess if any minor adjustments are needed while using these trays.

Method of Identification:

The newly qualified tray can be identified through external visual inspection (naked eye). The tray part number is written on the side tab of the tray. Please refer to the tray drawing in the attachment.

Response Required:

This is information only notice. 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