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PRODUCT CHANGE NOTIFICATION

PCN: PCN183901

Date: September 30, 2018

Subject: Qualification of Hitachi Die Attach Epoxy EN4600B for 32/48/64 QFN and 100 QFP Pb-Free Packages Assembled at TFME

To: GENERAL INBOX
ELEMENT14
ProductChangeNotices@element14.com

Change Type: Major

Description of Change:

Cypress announces the qualification of Hitachi die attach epoxy EN4600B for 32/48/64 QFN and 100 QFP Pb-Free packages assembled at TongFu Microelectronics Co., Ltd, China (TFME).

This new die attach material is compatible with industry standard reflow conditions for applicable package volume, thickness and lead finish. There is no change in the moisture sensitivity level or product performance. The ordering part number change from MB to CY was already communicated through PCN181301. These products are ROHS and REACH compliant.

The 32/48/64 QFN Pb-Free packages are assembled at TFME using the following Bill of Materials:

Material	New Bill of Materials	Current Bill of Materials
Mold Compound	Sumitomo EMEG770HCD	Sumitomo EMEG770HCD
Leadframe	Pure Sn	Pure Sn
Die Attach Epoxy	Hitachi EN4600B	Yiz-Tech 9246LB5
Bond Wire	20µm Au wire	20µm Au wire

The 100 QFP Pb-Free packages are assembled at TFME using the following Bill of Materials:

Material	New Bill of Materials	Current Bill of Materials
Mold Compound	Hitachi CEL8240HF10	Hitachi CEL8240HF10
Leadframe	Pure Sn	Pure Sn
Die Attach Epoxy	Hitachi EN4600B	Yiz-Tech 9246LB5
Bond Wire	23µm Au wire	23µm Au wire

Benefit of Change:

The qualification of the Hitachi die attach epoxy EN4600B allows for an improvement in product reliability and minimizes supply risk.

Part Numbers Affected: 32

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

Qualification Status:

This change has been qualified through a series of tests documented in the Qualification Test Plan QTP#180408. This qualification report can be found as an attachment to this PCN or by visiting www.cypress.com and typing the QTP number in the keyword search window.

Sample Status:

Qualification samples may not be built ahead of time for all part numbers affected by this change. Please review the attached 'Affected Parts List' file for a list of affected part numbers with their associated TFME sample ordering part numbers. These sample ordering part numbers will also be the new production part numbers as the current marketing part numbers will be obsoleted as per PCN181301. Samples are available now unless there is an indication that the sample ordering part numbers are subject to lead times. If you require qualification samples, please contact your local Cypress sales representative as soon as possible, preferably within 30 days of the date of this PCN, to place any sample orders.

Approximate Implementation Date:

Effective 90 days from the date of this notification or upon customer approval, whichever comes first, all shipments of Commercial, Industrial and Automotive non-PPAP part numbers in the attached file will be assembled at TFME or other approved assembly sites.

Anticipated Impact:

Products assembled with the Hitachi die attach epoxy EN4600B are completely compatible with existing products from form, fit, functional, parametric and quality performance perspectives.

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:

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