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PRODUCT CHANGE NOTIFICATION

PCN: PCN183101

Date: August 08, 2018

Subject: Qualification of EME-G660B Mold Compound, Copper Wire, Lead Frame and Marketing Part Number Change for Select Auto MCU Products at J-Devices

To:

Change Type: Major

Description of Change:

Cypress announces the qualification of EME-G660B mold compound, copper wire and leadframe change for 120-pin LQFP package for select Auto Microcontroller Unit (MCU) products assembled at J-Devices.

Motivation for these changes was described and pre-announced in Advance PCN173705C.

The present PCN corresponds to group GR4-A in the summary table contained in APCN 173705C.

This mold compound is consistent with Cypress's drive to Green and Pb-free RoHS compliant packages. In addition, this Green and Pb-free EME-G660B mold compound is compatible with industry standard reflow temperatures for applicable package volume, thickness and lead finish. In addition, this new bond wire type and leadframe are consistent with industry standards.

Material	J-Devices Current BOM	J-Devices New BOM
Mold Compound	Hitachi Non JD Standard Epoxy CEL-9210H	Sumitomo JD Standard Epoxy EME-G660B
Leadframe	Cu-alloy, MLF-120LQV1	Cu-alloy, MLF-120LQV10
Die Attach Material	Hitachi EN4600B	Hitachi EN4600B
Bond Wire	20µm Au wire	20µm CuPdAu wire

In addition, the marketing part numbers will change from the MB prefix to the CY prefix, including a marking change of "F-logo" or "Spansion logo" removal.

Datasheets can be downloaded in www.cypress.com using this link:
<http://www.cypress.com/node/441531>

Benefit of Change:

The qualification of the standard J-Devices mold compound and Leadframe allow for an improvement in product reliability and product cycle time.

The wire bond conversion will keep Cypress in alignment with the overall industry trend towards copper wire bonds.

Part Numbers Affected: 80

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:

The change has been qualified through a series of tests documented in Qualification Test Plans QTP#173410 and QTP#182003. The qualification reports can be found as attachments to this notification 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 J-Devices Fukuoka and J-Devices Usuki sample ordering part numbers. 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, but no later than 30 days from the date of this PCN, to place any sample orders.

Approximate Implementation Date:

The MB part numbers listed in attached file will be supported according to the Last Time Buy (LTB) and Last Time Ship (LTS) dates provided. Your Cypress Sales rep will be in touch with you during the LTB phase to manage the backlog transition from MB marketing part number to CY marketing part number, depending on inventory depletion levels.

Anticipated Impact:

Products assembled 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

