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## PRODUCT CHANGE NOTIFICATION

**PCN:** PCN145351

**Date:** December 16, 2014

**Subject:** Qualification of Copper Palladium Wire Bonds for Select Lead Frame Products at JCET China

**To:** HIRONO KAKINUMA  
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**Change Type:** Major

### Description of Change:

Cypress announces the qualification of Copper Palladium (CuPd) wire bonds for select lead frame (LF) products at Jiangsu Changjiang Electronics Technology Co., Ltd (JCET) in China using the Bill of Materials in the attached table. There will be no changes to product datasheets or part numbers.

JCET is the largest provider of independent semiconductor manufacturing services for assembly and test in China. Their assembly facility in Changjiang, China is already a qualified assembly site for Cypress products using CuPd wire bonds. JCET is certified to several international quality standards: ISO/TS16949:2009, ANSI/ESD S20.20:2007, IECQ QC 080000:2005, ISO 14001 and OHSAS 18001.

### Benefit of Change:

The conversion to CuPd wire bonds will keep Cypress in alignment with the overall industry trend towards copper palladium wire bonds. The goal of the manufacturing initiative is to provide the means for Cypress to continue to meet our customers' requirements and meet our delivery commitments through dynamic, changing market conditions.

### Affected Part Numbers: 128

**Affected Parts:** See the attached file for a list of all part numbers affected by this change. Note that any new lead frame parts in these packages that are introduced after the publication of this PCN will also be manufactured with either CuPd or gold wire bonds.

**Qualification Status:**

CuPd wire bonds have been qualified through a series of tests documented in the Qualification Test Plan (QTP) reports indicated in the table below. Qualification reports can be found as attachments to this notification or by visiting [www.cypress.com](http://www.cypress.com) and typing the QTP number in the keyword search window.

Package Description	QTP Number
48-lead SSOP (14x20x1.4)	143702
56-lead SSOP (14x20x1.4)	143702
24-lead QSOP (14x14x1.4)	143702
28-lead 300mil SNC	143703
20-lead 300mil SOIC	143703
24-lead 300mil SOIC	143703
28-lead 300mil SOIC	143703
32-lead 450mil SOIC	143703
28-lead 300mil SOJ	143704
32-lead 300mil SOJ	143704
32-lead 400mil SOJ	143704
36-lead 400mil SOJ	143704
44-lead 400mil SOJ	143704

**Sample Status:**

Qualification samples are not built ahead of time for all part numbers affected by this change. Please review the attached file for a list of affected part numbers with their associated sample ordering part numbers. Sample requests for products without sample order part numbers are not built ahead of time, will be built to order and subject to standard lead times. Please contact your sales representative as soon as possible, but 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 the affected part numbers in the attached file will be supplied with either CuPd wire bonds or gold wire bonds.

**Anticipated Impact:**

Products manufactured with CuPd wire bonds are completely compatible with existing product from a functional, parametric, and quality performance perspective.

Cypress 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:**

There will be no changes to the part number. A "C" will be added to the package marking to designate CuPd wire bonds. 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](mailto:pcn_adm@cypress.com).

Sincerely,  
Cypress PCN Administration