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PCN: PCN182406A

Date: September 11, 2018

Subject: Addendum to PCN182406 - Qualification of Fab 25 as an Additional Wafer Fab Site, Test 25 as an Additional Wafer Sort Site and ASE-Kaohsiung as a Transfer Site for Assembly for the Automotive PSoC® 3 Product Family

To:

Change Type: Major

Description of Change:

The purpose of this addendum is to correct the JCET Au bond wire diameter from 1.0mil to 0.8mil and detail the change to the leadframe design.

Firstly, there is no change in the wire bond diameter or material between JCET and ASE-KH.

Secondly, the leadframe design changed to match the standard tooling at ASE-KH. Also for Reliability improvement the design changed from Reduced Metal Pad (RMP) to Full Metal Pad (FMP).

Cypress announced the qualification of Fab 25 in Austin, Texas as an additional wafer fab site and Test 25 in Austin, Texas as an additional wafer sort site for the Automotive PSoC® 3 product family.

In addition, Cypress also announced its qualification of assembly site for 100-Lead TQFP package at ASE-Kaohsiung, Taiwan (ASE-KH) for the Automotive PSoC® 3 product family.

The 100-Lead TQFP Pb-Free automotive packages (14x14 mm) is assembled at ASE-KH using the following Bill of Materials:

Material	ASE-KH Bill of Materials	JCET Bill of Materials
Mold Compound	Sumitomo G631SH	Kyocera KE-G6000
LeadFrame Finish	Matte Sn	NiPdAu
Leadframe Design	Full Metal Pad (FMP)	Reduced Metal Pad (RMP)
Die Attach Epoxy	Sumitomo CRM-1076WA	Henkel QMI-509
Bond Wire	0.8mil Au	0.8mil Au

Benefit of Change:

Qualification of alternate manufacturing sites is part of the ongoing flexible manufacturing initiative announced by Cypress. The goal of the flexible manufacturing initiative is to provide

the means for Cypress to continue to meet delivery commitments through dynamic, changing market conditions.

Part Numbers Affected: 56

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:

These products have been qualified through a series of tests documented in the Qualification Test Plans summarized in the table below. The qualification reports can be found as attachments to this PCN or by visiting www.cypress.com and typing the QTP number in the keyword search window.

QTP Number	Qualification
164004	Fab 25 PSoC® 3 Device
171610	Test 25 Additional Sort Site
174308	ASE-KH as Additional Assembly Site

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 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, 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 supplied from Fab 25 and ASE-KH or other approved wafer fabrication sites.

For Automotive PPAP part numbers this change will be effective upon customer approval.

Cypress requests that qualifications are completed no later than October 1, 2018.

Anticipated Impact:

Products assembled at the new site 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

Item	Marketing Part Number	Sample Order Part Number
1	CY8C3666AXA-052	CY8C3666AXA2-052; Subject to lead time
2	CY8CTMA616AA-12	CY8CTMA616AA2-12
3	CY8CTMA616AA-12T	CY8CTMA616AA2-12
4	CY8CTMA616AA-13	CY8CTMA616AA2-13; Subject to lead time
5	CY8CTMA616AA-13T	CY8CTMA616AA2-13; Subject to lead time
6	CY8CTMA616AA-22	CY8CTMA616AA2-22
7	CY8CTMA616AA-22T	CY8CTMA616AA2-22
8	CY8CTMA616AA-23	CY8CTMA616AA2-23; Subject to lead time
9	CY8CTMA616AA-23T	CY8CTMA616AA2-23; Subject to lead time
10	CY8CTMA616AE-12	CY8CTMA616AE2-12
11	CY8CTMA616AE-12T	CY8CTMA616AE2-12
12	CY8CTMA616AE-13	CY8CTMA616AE2-13
13	CY8CTMA616AE-13T	CY8CTMA616AE2-13
14	CY8CTMA616AE-22	CY8CTMA616AE2-22; Subject to lead time
15	CY8CTMA616AE-22T	CY8CTMA616AE2-22; Subject to lead time
16	CY8CTMA616AE-23	CY8CTMA616AE2-23; Subject to lead time
17	CY8CTMA616AE-23T	CY8CTMA616AE2-23; Subject to lead time
18	CY8CTMA884AA-12	CY8CTMA884AA2-12; Subject to lead time
19	CY8CTMA884AA-12T	CY8CTMA884AA2-12; Subject to lead time
20	CY8CTMA884AA-13	CY8CTMA884AA2-13; Subject to lead time
21	CY8CTMA884AA-13T	CY8CTMA884AA2-13; Subject to lead time
22	CY8CTMA884AA-22	CY8CTMA884AA2-22
23	CY8CTMA884AA-22T	CY8CTMA884AA2-22
24	CY8CTMA884AA-23	CY8CTMA884AA2-23; Subject to lead time
25	CY8CTMA884AA-23T	CY8CTMA884AA2-23; Subject to lead time
26	CY8CTMA884AE-12	CY8CTMA884AE2-12
27	CY8CTMA884AE-12T	CY8CTMA884AE2-12
28	CY8CTMA884AE-13	CY8CTMA884AE2-13; Subject to lead time
29	CY8CTMA884AE-13T	CY8CTMA884AE2-13; Subject to lead time
30	CY8CTMA884AE-22	CY8CTMA884AE2-22; Subject to lead time
31	CY8CTMA884AE-22T	CY8CTMA884AE2-22; Subject to lead time
32	CY8CTMA884AE-23	CY8CTMA884AE2-23
33	CY8CTMA884AE-23T	CY8CTMA884AE2-23
34	CG8895AT	CG8895XT; Subject to lead time
35	CG8895ATT	CG8895XT; Subject to lead time
36	CP7525AT	CP7525XT; Subject to lead time
37	CP7529AT	CP7529XT; Subject to lead time
38	CP7533AT	CP7533XT; Subject to lead time
39	CP8085AT	CP8085XT
40	CP8085ATT	CP8085XT
41	CP8143BT	CP8143XT
42	CP8143BTT	CP8143XT
43	CP8143DT	CP8143YT; Subject to lead time
44	CP8143DTT	CP8143YT; Subject to lead time
45	CP8143FT	CP8143YT; Subject to lead time
46	CP8143FTT	CP8143YT; Subject to lead time
47	CP8184BT	CP8184XT; Subject to lead time
48	CP8184BTT	CP8184XT; Subject to lead time
49	CP8361BT	CP8361XT
50	CP8361BTT	CP8361XT
51	CP8428AT	CP8428XT
52	CP8428ATT	CP8428XT
53	CP8429AT	CP8429XT
54	CP8429ATT	CP8429XT

55	CP8531AT	CP8531XT
56	CP8531ATT	CP8531XT