



198 Champion Court San Jose, CA 95134-1709 (408) 943-2600

PRODUCT CHANGE NOTIFICATION

PCN: PCN145265

Date: March 12, 2014

Subject: Qualification of Manufacturing Changes for PSoC 5LP Products

To: PCN ADMINISTRATOR
CYPRESS PCN ADMIN
pcn_adm@cypress.com

Change Type: Major

Description of Change:

Cypress is implementing a manufacturing change for products in the CY8C56LP and CY8C58LP families that will result in a temperature restriction on the IMO 3MHz spec to +/- 1.5% below 0 deg C and above 70 deg C. This spec remains at +/- 1% at all other operational temperatures.

Affected Part Numbers: Refer to below table.

Affected Parts: 20

Item	Marketing Part Number	Item	Marketing Part Number	Item	Marketing Part Number
1	CY8C5666AXI-LP004	8	CY8C5668AXI-LP013	15	CY8C5867LTI-LP025
2	CY8C5666LTI-LP005	9	CY8C5668AXI-LP034	16	CY8C5867LTI-LP028
3	CY8C5667AXI-LP006	10	CY8C5668LTI-LP014	17	CY8C5868AXI-LP032
4	CY8C5667AXI-LP040	11	CY8C5866AXI-LP020	18	CY8C5868AXI-LP035
5	CY8C5667LTI-LP009	12	CY8C5866AXI-LP021	19	CY8C5868LTI-LP038
6	CY8C5667LTI-LP041	13	CY8C5866LTI-LP022	20	CY8C5868LTI-LP039
7	CY8C5668AXI-LP010	14	CY8C5867AXI-LP024		

Approximate Implementation Date:

The manufacturing change that will result in a temperature restriction on the IMO 3 MHz spec will be implemented effective with the date of this notification.

Qualification Status:

As per Cypress' specified list of changes, these new parts have been qualified through a series of tests identified in Qualification Test Plan (QTP) 120501.

Description of Change:

In alignment with industry trends Cypress is moving forward with copper palladium (Cu-Pd) wires for sample and production shipments. All PSoC 5LP devices will be available in 100 TQFP and 68 QFN packages with Cu-Pd wire bonds.

Affected Part Numbers: Refer to below table.

Affected Parts: 28

Item	Marketing Part Number	Item	Marketing Part Number	Item	Marketing Part Number
1	CY8C5267AXI-LP051	11	CY8C5667AXI-LP006	21	CY8C5866LTI-LP022
2	CY8C5267LTI-LP089	12	CY8C5667AXI-LP040	22	CY8C5867AXI-LP024
3	CY8C5268AXI-LP047	13	CY8C5667LTI-LP009	23	CY8C5867LTI-LP025
4	CY8C5268LTI-LP030	14	CY8C5667LTI-LP041	24	CY8C5867LTI-LP028
5	CY8C5467AXI-LP108	15	CY8C5668AXI-LP010	25	CY8C5868AXI-LP032
6	CY8C5467LTI-LP003	16	CY8C5668AXI-LP013	26	CY8C5868AXI-LP035
7	CY8C5468AXI-LP106	17	CY8C5668AXI-LP034	27	CY8C5868LTI-LP038
8	CY8C5468LTI-LP026	18	CY8C5668LTI-LP014	28	CY8C5868LTI-LP039
9	CY8C5666AXI-LP004	19	CY8C5866AXI-LP020		
10	CY8C5666LTI-LP005	20	CY8C5866AXI-LP021		

Qualification Status:

Qualification Test Plan (QTP) for each package and packaging site are listed in the table below. The qualification reports can be found as attachments to this notification or by visiting www.cypress.com, typing the QTP number in the search window and clicking on the magnifying glass icon.

Package Description	Cypress Philippines QTP report	ASE Taiwan QTP report
68 lead 8x8x1 mm QFN	133308	133309
100 lead 14x14x1.4 mm TQFP	133307	133306

Approximate Implementation Date:

Effective 90 days from the date of this notification or upon customer approval, Cypress will transition to shipments of all PSoC 5LP part numbers with Cu-Pd wire bonds.

Sample Status:

Qualification samples are not built ahead of time for all part numbers affected by this change. Please review the following table for a list of affected part numbers transitioning to CuPd bond wires with their associated sample ordering part numbers. Samples for products listed below are available. If you require qualification samples, please contact your sales representative as soon as possible, but within 30 days of the date of this PCN.

Affected Part Number	Sample Ordering Part Number
CY8C5866LTI-LP022	CY8C5866LTI-LP022KA
CY8C5868AXI-LP032	CY8C5868AXI-LP032KA
CY8C5868AXI-LP035	CY8C5868AXI-LP035KA
CY8C5868LTI-LP038	CY8C5868LTI-LP038KA
CY8C5868LTI-LP039	CY8C5868LTI-LP039KA

Qualification sample orders received after 30 days from the date of this PCN and qualification sample orders for parts which do not have a listed sample ordering part number in the table above will be subject to lead times.

Anticipated Impact:

Products manufactured 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 copper wire bonds. Cypress maintains traceability of product to wafer level, including wafer fabrication location, through the lot number marked on the package.

Response Required:

This is an information only announcement. 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	CY8C5267AXI-LP051	Available to order; subject to lead time
2	CY8C5267LTI-LP089	Available to order; subject to lead time
3	CY8C5268AXI-LP047	Available to order; subject to lead time
4	CY8C5268LTI-LP030	Available to order; subject to lead time
5	CY8C5467AXI-LP108	Available to order; subject to lead time
6	CY8C5467LTI-LP003	Available to order; subject to lead time
7	CY8C5468AXI-LP106	Available to order; subject to lead time
8	CY8C5468LTI-LP026	Available to order; subject to lead time
9	CY8C5666AXI-LP004	Available to order; subject to lead time
10	CY8C5666LTI-LP005	Available to order; subject to lead time
11	CY8C5667AXI-LP006	Available to order; subject to lead time
12	CY8C5667AXI-LP040	Available to order; subject to lead time
13	CY8C5667LTI-LP009	Available to order; subject to lead time
14	CY8C5667LTI-LP041	Available to order; subject to lead time
15	CY8C5668AXI-LP010	Available to order; subject to lead time
16	CY8C5668AXI-LP013	Available to order; subject to lead time
17	CY8C5668AXI-LP034	Available to order; subject to lead time
18	CY8C5668LTI-LP014	Available to order; subject to lead time
19	CY8C5866AXI-LP020	Available to order; subject to lead time
20	CY8C5866AXI-LP021	Available to order; subject to lead time
21	CY8C5866LTI-LP022	CY8C5866LTI-LP022KA
22	CY8C5867AXI-LP024	Available to order; subject to lead time
23	CY8C5867LTI-LP025	Available to order; subject to lead time
24	CY8C5867LTI-LP028	Available to order; subject to lead time
25	CY8C5868AXI-LP032	CY8C5868AXI-LP032KA
26	CY8C5868AXI-LP035	CY8C5868AXI-LP035KA
27	CY8C5868LTI-LP038	CY8C5868LTI-LP038KA
28	CY8C5868LTI-LP039	CY8C5868LTI-LP039KA