



Cypress Semiconductor Corporation – An Infineon Technologies Company
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PRODUCT CHANGE NOTIFICATION

PCN: PCN212103

Date: May 28, 2021

Subject: New BOM for Premolded Wettable Flank 56-Lead QFN Package at Cypress Philippines

Change Type: Major

Description of Change:

Cypress announces the qualification of new bill of materials (BOM) for the premolded wettable flank 56-Lead QFN package (7x7x0.6mm) assembled at Cypress Philippines (Gateway Business Park, SEPZA, Javalera, Gen. Trias Cavite, Philippines).

Material	New Bill of Materials	Current Bill of Materials
Mold Compound	Kyocera KEG3000NAS (High Spiral Flow)	Sumitomo G700Y (High Spiral Flow)
Leadframe	Premolded Wettable Flank QFN, NiPdAu (RT-uPPF)	Standard QFN, NiPdAu
Lead Finish	NiPdAu	NiPdAu
Die Attach Material	Sumitomo CRM1577E (Non-conductive)	Henkel QMI519 (Conductive)
Bond Wire	MKE 0.9mil CuPdAu wire	Heraeus 0.9mil CuPd wire

The new BOM is consistent with industry standards and results in improved product quality and reliability. The green and lead-free RoHS-compliant Kyocera KEG3000NAS mold compound is compatible with industry standard reflow temperatures for applicable package volume, thickness, and lead finish. The 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 (MSL).

Benefit of Change:

The qualification of the new bill of materials on existing qualified package and devices allows for an improvement in product quality and reliability.

Part Numbers Affected: 59

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# 201216. 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 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 grade part numbers in the attached file will be assembled at Cypress Philippines or other approved assembly sites.

Anticipated Impact:

Products assembled with the new BOM are 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



On 16 April 2020, Infineon Technologies acquired Cypress.
We are now in the process of merging and consolidating our tools and processes for PCN, Information Notes, Errata and Product Discontinuance.
For further details, please visit our website:
<https://www.infineon.com/cms/en/about-infineon/company/cypress-acquisition/>

Item Marketing Part Number

- 1 CY8C4127LQI-BL453
- 2 CY8C4127LQI-BL453T
- 3 CY8C4127LQI-BL473
- 4 CY8C4127LQI-BL473T
- 5 CY8C4127LQI-BL483
- 6 CY8C4127LQI-BL483T
- 7 CY8C4127LQI-BL493
- 8 CY8C4127LQI-BL493T
- 9 CY8C4128LQI-BL543
- 10 CY8C4128LQI-BL543T
- 11 CY8C4128LQI-BL553
- 12 CY8C4128LQI-BL553T
- 13 CY8C4128LQI-BL563
- 14 CY8C4128LQI-BL563T
- 15 CY8C4128LQI-BL573
- 16 CY8C4128LQI-BL573T
- 17 CY8C4128LQI-BL583
- 18 CY8C4128LQI-BL583T
- 19 CY8C4128LQI-BL593
- 20 CY8C4128LQI-BL593T
- 21 CY8C4247LQI-BL453
- 22 CY8C4247LQI-BL453T
- 23 CY8C4247LQI-BL463
- 24 CY8C4247LQI-BL463T
- 25 CY8C4247LQI-BL473
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- 46 CY8C4248LQQ-BL583T
- 47 CY8C4249LQI-BL583

48 CG8671AA
49 CG8671AAT
50 CG8672AA
51 CG8672AAT
52 CG9166AM
53 CG9166AMT
54 CP8928AT
55 CP8928ATT
56 CS8537AA
57 CS8537AAT
58 CS8808AM
59 CS8808AMT