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PRODUCT CHANGE NOTIFICATION

PCN: PCN171504

Date: June 13, 2017

Subject: Qualification of Sumitomo G700LS Mold Compound and Roughened NiPdAu Leadframe for 20 and 28-Lead SSOP Automotive Packages Assembled at Amkor Philippines 1

To:

Change Type: Major

Description of Change:

Cypress announces the qualification of Sumitomo G700LS mold compound and Roughened NiPdAu leadframe for 20 and 28-Lead SSOP Automotive packages assembled at Amkor Philippines 1. The qualification will enable Cypress to meet our customers' stringent quality and reliability requirements in our effort to continually provide world-class services. 20 and 28-Lead SSOP packages assembled at Amkor Philippines 1 (P1) will use the following Bill of Materials (BOM).

Material	Amkor P1 Current BOM	Amkor P1 New BOM
Mold Compound	Sumitomo 6600H	Sumitomo G700LS
Lead Finish	Pure Sn (Smooth surface)	NiPdAu (Roughened surface)
Die Attach Epoxy	Ablestik 8290	Ablestik 8290
Bond Wire	Gold wire 1.0 mil	Gold wire 1.0 mil

There are no changes to ordering part numbers. Product datasheets remain the same and can be downloaded from Cypress website (www.cypress.com).

Benefit of Change:

The qualification of the new bill of materials allows for an improvement in product reliability and product cycle time.

Affected Part Numbers: 78

Affected Parts: 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 may also be manufactured with new bill of materials.

Qualification Status:

The change has been qualified through a series of tests documented in Qualification Test Plan (QTP) 163310. The qualification report can be found as an attachment to this notification.

Sample Status:

Qualification samples are not built ahead of time for all part numbers affected by this change. Please contact your local Cypress Sales representative for sample availability as soon as possible, but within 30 days of the date of this PCN, to place any sample orders.

Approximate Implementation Date:

This change will be implemented upon customer approval and all shipments of the affected part numbers in the attached file will be manufactured with the combination of the BOM shown above.

Anticipated Impact:

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

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:

There will be no changes to the part number. 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	CY8C21312-12PVXE	CY8C21312-12PVXEKP
2	CY8C21312-12PVXET	CY8C21312-12PVXEKP
3	CY8C21312-24PVXA	CY8C21312-24PVXAKP; Subject to lead time
4	CY8C21312-24PVXAT	CY8C21312-24PVXAKP; Subject to lead time
5	CY8C21334-12PVXE	CY8C21334-12PVXEKP
6	CY8C21334-12PVXET	CY8C21334-12PVXEKP
7	CY8C21334-24PVXA	CY8C21334-24PVXAKP
8	CY8C21334-24PVXAT	CY8C21334-24PVXAKP
9	CY8C21334W-12PVXE	CY8C21334W-12PVXEKP
10	CY8C21334W-12PVXET	CY8C21334W-12PVXEKP
11	CY8C21345-12PVXE	CY8C21345-12PVXEKP; Subject to lead time
12	CY8C21345-12PVXET	CY8C21345-12PVXEKP; Subject to lead time
13	CY8C21345-24PVXA	CY8C21345-24PVXAKP; Subject to lead time
14	CY8C21345-24PVXAT	CY8C21345-24PVXAKP; Subject to lead time
15	CY8C21512-12PVXE	CY8C21512-12PVXEKP
16	CY8C21512-12PVXET	CY8C21512-12PVXEKP
17	CY8C21512-24PVXA	CY8C21512-24PVXAKP
18	CY8C21512-24PVXAT	CY8C21512-24PVXAKP
19	CY8C21534-12PVXE	CY8C21534-12PVXEKP
20	CY8C21534-12PVXET	CY8C21534-12PVXEKP
21	CY8C21534-24PVXA	CY8C21534-24PVXAKP
22	CY8C21534-24PVXAT	CY8C21534-24PVXAKP
23	CY8C21534W-12PVXE	CY8C21534W-12PVXEKP; Subject to lead time
24	CY8C21534W-12PVXET	CY8C21534W-12PVXEKP; Subject to lead time
25	CY8C22345-12PVXE	CY8C22345-12PVXEKP; Subject to lead time
26	CY8C22345-12PVXET	CY8C22345-12PVXEKP; Subject to lead time
27	CY8C22345-24PVXA	CY8C22345-24PVXAKP
28	CY8C22345-24PVXAT	CY8C22345-24PVXAKP
29	CY8C22345H-24PVXA	CY8C22345H-24PVXAKP; Subject to lead time
30	CY8C22345H-24PVXAT	CY8C22345H-24PVXAKP; Subject to lead time
31	CY8C24223A-12PVXE	CY8C24223A-12PVXEKP
32	CY8C24223A-12PVXET	CY8C24223A-12PVXEKP
33	CY8C24223A-24PVXA	CY8C24223A-24PVXAKP; Subject to lead time
34	CY8C24223A-24PVXAT	CY8C24223A-24PVXAKP; Subject to lead time
35	CY8C24423A-12PVXE	CY8C24423A-12PVXEKP
36	CY8C24423A-12PVXET	CY8C24423A-12PVXEKP
37	CY8C24423A-24PVXA	CY8C24423A-24PVXAKP
38	CY8C24423A-24PVXAT	CY8C24423A-24PVXAKP
39	CY8C29466-12PVXE	CY8C29466-12PVXEKP
40	CY8C29466-12PVXET	CY8C29466-12PVXEKP
41	CY8C29466-24PVXA	CY8C29466-24PVXAKP
42	CY8C29466-24PVXAT	CY8C29466-24PVXAKP
43	CY8C29466-24PVXI	CY8C29466-24PVXIKP; Subject to lead time
44	CY8C29466-24PVXIT	CY8C29466-24PVXIKP; Subject to lead time
45	CY8C294664-24PVXI	CY8C294664-24PVXIKP; Subject to lead time
46	CY8CPLC10-28PVXI	CY8CPLC10-28PVXIKP; Subject to lead time

47	CY8CPLC10-28PVXIT	CY8CPLC10-28PVXIKP; Subject to lead time
48	CY8CPLC20-28PVXI	CY8CPLC20-28PVXIKP; Subject to lead time
49	CY8CPLC20-28PVXIT	CY8CPLC20-28PVXIKP; Subject to lead time
50	CG7127AM	CG7127XM; Subject to lead time
51	CG7127AMT	CG7127XM; Subject to lead time
52	CG8130AA	CG8130XA; Subject to lead time
53	CG8130AAT	CG8130XA; Subject to lead time
54	CP6659AMT	CP6659XM; Subject to lead time
55	CP6801AT	CP6801XT; Subject to lead time
56	CP6801ATT	CP6801XT; Subject to lead time
57	CP7407AT	CP7407XT; Subject to lead time
58	CP7407ATT	CP7407XT; Subject to lead time
59	CP8087AT	CP8087XT; Subject to lead time
60	CP8087ATT	CP8087XT; Subject to lead time
61	CP8110AT	CP8110XT; Subject to lead time
62	CP8110ATT	CP8110XT; Subject to lead time
63	CP8122AT	CP8122XT
64	CP8122ATT	CP8122XT
65	CP8124AT	CP8124XT
66	CP8124ATT	CP8124XT
67	CP8186AT	CP8186XT
68	CP8186ATT	CP8186XT
69	CP8331AT	CP8331XT
70	CP8331ATT	CP8331XT
71	CP8335AT	CP8335XT; Subject to lead time
72	CP8335ATT	CP8335XT; Subject to lead time
73	CP8397AT	CP8397XT
74	CP8397ATT	CP8397XT
75	CP8611AT	CP8611XT; Subject to lead time
76	CP8611ATT	CP8611XT; Subject to lead time
77	CS8720AT	CS8720XT; Subject to lead time
78	CS8720ATT	CS8720XT; Subject to lead time