

Product Change Notice (PCN)

Subject: Transfer Assembly Location from Amkor, Korea to Amkor, Philippines on Select Package

Publication Date: 6/18/2020

Effective Date: 9/18/2020

Revision Description:

Initial Release

Description of Change:

Renesas will transfer package CABGA-52 from current Amkor, Korea to Amkor, Philippines as a result of Amkor, Korea will be discontinuing the assembly manufacturing process on this package type.

The material sets of the current and the new assembly location are as shown in the below table. There will be no change in wire type, foot print as well as moisture sensitive level as a result of this change.

The substrate material supplier will be changed as the existing substrate supplier, SEMCO is EOL the substrate design too.

Package	Material Sets	Existing Assembly Amkor, Korea	New Assembly Amkor, Philippines
CABGA-52	Die Attach	Ablebond 2300	Ablebond 2300
	Bonding Wire	Gold wire	Gold wire
	Mold Compound	G770	G770
	Solder Ball	SAC305 0.35mm diameter	SAC305 0.35mm diameter
	Substrate	HL832NX-A	HL832NX-A
	Substrate supplier	SEMCO, Korea	UMTC, Taiwan

Affected Product List: Refer Appendix B

Reason for Change:

The current Assembly location, Amkor Korea is discontinuing the manufacturing process of the said package and substrate supplier EOL the substrate design.

Impact on Fit, Form, Function, Quality & Reliability:

The change will have no impact on the form, fit, function, quality, reliability and environmental compliance of the products.

Product Identification:

Assembly lot# with prefix "P" denote Amkor, Philippines.

Qualification Status: Completed. Refer Appendix A
Sample Availability Date: Available on request
Device Material Declaration: Available upon request

Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
2. If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.
3. If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.

For additional information regarding this notice, please contact idt-pcn@lm.renesas.com

Appendix A - Qualification Results

Affected Packages: CABGA-52

Qual Vehicle: CABGA-52

Assembly Material: As shown in page 1

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - biased (130 °C/85% RH, 96 Hrs)	JESD22-A110	0/25	0/25	0/25
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Solder Ball Shear Test	JESD22-B117	0/5	0/5	0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5	0/5	0/5
Physical Dimensions	JESD22-B100	0/30	0/30	0/30
Ball Shear Test	JESD22-B116	0/5	0/5	0/5
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	-

**Tests were subjected to Preconditioning per JESD22-A113 prior to stress test*

Appendix B – Affected Product List

97U877AHLFT/M	97ULP877BHLFT/M	98ULPA877AHLF/B	CSPUA877ABVG/M
97ULP877BHLF	98ULPA877AHILF	98ULPA877AHLFT	CSPUA877ABVG8
97ULP877BHLF/M	98ULPA877AHILFT	98ULPA877AHLFT/B	CSPUA877ABVG8/M
97ULP877BHLFT	98ULPA877AHLF	CSPUA877ABVG	