

Product Change Notice (PCN)

Subject: Change of Moisture Sensitive Level

Publication Date: 5/13/2025

Effective Date: 8/12/2025

Revision Description:

Initial Release

Description of Change:

This notification is to advise our customers that Renesas is converting moisture sensitivity classification from MSL3 to MSL1 as part of standardization among UBuffer products. Presently, RC19008A devices are MSL3, while RC19108A devices are MSL1 though the material sets, and package type are the same among all these devices. Further internal qualifications are conducted, and it is confirmed that the MSL3 devices passing MSL1 moisture classification. Therefore, the affected products will be shipped in non-moisture barrier bag (non-dry pack) and labeled as MSL1 following J-STD-020. There is no change to the assembly material sets, peak reflow temperature and assembly process.

Affected Product List: RC19008A100GND#BB0, RC19008A100GND#KB0, RC19008AGND#BB0, RC19008AGND#KB0, RC19008AGND#KBH

Reason for Change:

To standardize MSL level for all UBuffer products.

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

The change has no impact on the form, fit, function, quality, reliability and environmental compliance of the product.

Product Identification:

Shipment made after PCN effective date and product label as MSL1 without dry pack.

Qualification Status: Qualification passed. Refer Appendix A for the qualification results.

Sample Availability Date: Not applicable

Device Material Declaration: Not applicable

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 Package: VFQFPN-40

Qual Vehicle: VFQFPN-40 device RC19008A

Assembly Location: Greatek, Taiwan

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
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	0/25	0/25	0/25
High Temperature Storage Bake (150 °C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 1, 260 °C	0/25	0/25	0/25

**Tests were subjected to Preconditioning per JESD22-A113 prior to stress test*
Affected Package: VFQFPN-40

Qual Vehicle: VFQFPN-40 device RC19008A

Assembly Location: UTL, Thailand

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
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	0/25	0/25	0/25
High Temperature Storage Bake (150 °C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 1, 260 °C	0/25	0/25	0/25

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