

Product Change Notice (PCN)

Subject: Add Alternate Assembly Location on Select VFQFPN Packages

Publication Date: 4/17/2025

Effective Date: 7/16/2025

Revision Description:

Initial Release

Description of Change:

Renesas is adding JCET, China as the alternate Assembly location in expanding the supply chain for select VFQFPN-88 package. The alternate assembly location is the current qualified location for Renesas. The material sets of the current locations and the alternate assembly location are as shown in the table below. There will be changes in the material sets, equipment models and inspection items and sampling at the alternate locations. The process flows are identical at all the qualified assembly locations.

There will be no changes in the moisture sensitive level as a result of this change.

Material Set / Assembly	Existing Assembly		Alternate Assembly
	ASEC, Taiwan	GEI, Taiwan	JCET, China
Die Attach Epoxy	EN4900G	CRM-1076DJ-G	EN-4900GC
Bonding Wire	Copper Wire	Copper Wire	Copper Wire
Mold Compound	EME-G700LA	EME-G700HA	EME-G631

Affected Product List: Refer Appendix B.

Reason for Change:

The change is to create an additional supply to secure business continuity.

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# prefix denote Assembly Location

Prefix	Current Location	Alternate Location
RC	ASEC Taiwan	
GR	GEI Taiwan	
JC		JCET China

Qualification Status: Completed. Refer Appendix A

Sample Availability Date: 8 weeks from sample booking date

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 Package: VFQFPN-88

Qual Vehicle: VFQFPN-88

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 (110 °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
Ball Shear Test	JESD22-B116	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
Solderability Test	MIL-STD-883 (Method 2003)	0/5	0/5	0/5
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	0/25

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

Appendix B – Affected Product List

8V19N460NLGI	8V19N491-24NLGI	8V19N492-39NLGI	8V19N492NLGI8
8V19N460NLGI/W	8V19N491-24NLGI/W	8V19N492-39NLGI8	
8V19N460NLGI8	8V19N491-24NLGI8	8V19N492NLGI	