

Product Change Notice (PCN)

Subject: Secondary Fab Location for Renesas Listed Products RAA2214944GNP#HBO

Publication Date: 6/16/2023

Effective Date: 9/16/2023

Revision Description:

Initial Release

Description of Change:

This notice is to inform you that Renesas Electronics America will begin using Vanguard Fab2 as a secondary wafer fabrication facility for the products listed below;

- RAA2214944GNP#HBO

Reason for Change:

The Vanguard Fab2 wafer fabrication site is being added to increase capacity and meet customer delivery requirements. There is no change to the use of existing wafer fabrication site Vanguard Fab3. There is no change to the assembly or test sites.

Impact on fit, form, function, quality & reliability:

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

Product Identification:

There will be no change in the external marking of the packaged parts. Product affected by this change is identifiable via Renesas Electronics America Inc. internal traceability system. Shipments with date-codes of 9/16/2023 forward may contain Fab2 and/or Fab3 material. All shipments with date-codes prior to 9/16/2023 will contain only Fab3 material.

Qualification status: Complete, see Appendix A.

Sample availability: 6/16/2023

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 your regional change coordinator (below)			
Americas: PCN-US@Renesas.COM	Europe: PCN-EU@Renesas.COM	Japan: PCN-JP@Renesas.COM	Asia Pac: PCN-APAC@Renesas.COM

Appendix A - Qualification Results for RAA2214944GNP#HBO at Vanguard Fab2.

Qualification Results						
Stress	Test Method	Product	Wafer Fab	Sample Size	# of Lots	Result
High Temp Operating Life	JESD22-A108F 125C	RAA2214944G NP#HBO	FAB2	252	3	1000 Hour all pass
Biased HAST	JESD22-A110E 130C, 85%RH	RAA2214944G NP#HBO	FAB2	252	3	96 Hours all pass
Unbiased HAST	JESD11-A118B.01 130C, 85%RH	RAA2214944G NP#HBO	FAB2	252	3	96 Hours all pass
Storage Life	JESD22-A103E 150C	RAA2214944G NP#HBO	FAB2	252	3	96 Hours all pass
Moisture Sensitivity	J-STD-020E 30C, 60%RH	RAA2214944G NP#HBO	FAB2	66	3	192 Hour all pass
Temperature Cycle	JESDES22-104F -40-125C	RAA2214944G NP#HBO	FAB2	252	3	750 Cycles all pass
Product Electrical Characterization	Equivalence with VIS Fab3	RAA2214944G NP#HBO	FAB2	30	3	ATE CZ and Apps validated per NPDP
ESD HBM	JS-001-2017	RAA2214944G NP#HBO	FAB2	9	3	HBM = 2000 V pass
ESD CDM	JS-002-2018	RAA2214944G NP#HBO	FAB2	9	3	CDM = 1000 V pass
Latch-up Characterization	Qualified by Extension per JEDEC Class II Level A and the previous LU test results.					