

Product Change Notice (PCN)

Subject: Change of Wafer Process material for RH850 Series (RV40F)

Publication Date: 5/14/2025

Effective Date: 12/1/2025

Revision Description: Initial Release

Description of Change:

Renesas will change material of Wafer Process to the TSMC standard for Naka and TSMC products in RH850 Series (RV40F).

Item	Current	After Change	Remark
Wafer Process Site	Naka and TSMC	Naka and TSMC	Since there are cases where applicable P/N is only Naka products or only TSMC products, refer to "Affected Product List".
Wafer Process Material	Top-Metal A (TiN /SiO ₂ /SiN)	Top-Metal B (SiON /SiO ₂ /SiN)	Change of Top-Metal material to the TSMC standard

Affected Product List:

Refer to "Product List" in "Appendix".

(Wafer Process Site: Naka and TSMC)

(Wafer Process Site: Naka)

(Wafer Process Site: TSMC)

: Applicable for P/N produced at both Naka and TSMC

: Applicable for P/N produced at only Naka

: Applicable for P/N produced at only TSMC, and for F1K, F1KM-S1 and F1KM-S4, for which Naka addition has already been notified.

Reason for Change:

For stable supply of products

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

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

Product Identification:

Our production history data can be queried by using the trace code of the product and please contact Renesas' sales representatives.

Qualification Status:

Refer to "Q100 Qualification Test Results" in "Appendix".

Sample Availability Date: N/A

Device Material Declaration: N/A

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 Renesas sales representative.

Appendix

Product List

RH850/F1 Series (Wafer Process Site: Naka and TSMC)

R7F7010023AFD-C#AA4	R7F7010234AFD-C#BA4	R7F7010423AFP-C#TAT	R7F7010534AFP-C#AA4
R7F7010023AFD-C#BA4	R7F7010234AFD-C#KA4	R7F7010424AFP-C#AA2	R7F7010534AFP-C#BA4
R7F7010023AFD-C#KA4	R7F7010234AFE-C#AA4	R7F7010424AFP-C#AAT	R7F7010534AFP-C#TA4
R7F7010023AFE-C#AA4	R7F7010234AFE-C#BA4	R7F7010424AFP-C#BA2	R7F7010543AFD-C#AA4
R7F7010023AFE-C#BA4	R7F7010234AFE-C#KA4	R7F7010424AFP-C#BAT	R7F7010543AFD-C#BA4
R7F7010023AFE-C#KA4	R7F7010234AFP-C#AA4	R7F7010424AFP-C#TA2	R7F7010543AFD-C#KA4
R7F7010023AFP-C#AA4	R7F7010234AFP-C#BA4	R7F7010424AFP-C#TAT	R7F7010543AFE-C#AA4
R7F7010023AFP-C#BA4	R7F7010234AFP-C#KA4	R7F7010433AFP-C#AA2	R7F7010543AFE-C#BA4
R7F7010023AFP-C#KA4	R7F7010243AFD-C#AA2	R7F7010433AFP-C#BA2	R7F7010543AFE-C#KA4
R7F7010024AFD-C#AA4	R7F7010243AFD-C#BA2	R7F7010433AFP-C#TA2	R7F7010543AFP-C#AA4
R7F7010024AFD-C#BA4	R7F7010243AFD-C#KA2	R7F7010434AFP-C#AA2	R7F7010543AFP-C#BA4
R7F7010024AFD-C#KA4	R7F7010243AFE-C#AA2	R7F7010434AFP-C#BA2	R7F7010543AFP-C#KA4
R7F7010024AFE-C#AA4	R7F7010243AFE-C#BA2	R7F7010434AFP-C#TA2	R7F7010544AFD-C#AA0
R7F7010024AFE-C#BA4	R7F7010243AFE-C#KA2	R7F7010443AFD-C#AA2	R7F7010544AFD-C#AA4
R7F7010024AFE-C#KA4	R7F7010243AFP-C#AA2	R7F7010443AFD-C#BA2	R7F7010544AFD-C#BA0
R7F7010024AFP-C#AA4	R7F7010243AFP-C#BA2	R7F7010443AFD-C#KA2	R7F7010544AFD-C#BA4
R7F7010024AFP-C#BA4	R7F7010243AFP-C#KA2	R7F7010443AFE-C#AA2	R7F7010544AFD-C#KA4
R7F7010024AFP-C#KA4	R7F7010244AFD-C#AA2	R7F7010443AFE-C#BA2	R7F7010544AFE-C#AA0
R7F7010033AFD-C#AA2	R7F7010244AFD-C#BA2	R7F7010443AFE-C#KA2	R7F7010544AFE-C#AA4
R7F7010033AFD-C#BA2	R7F7010244AFD-C#KA2	R7F7010443AFP-C#AA2	R7F7010544AFE-C#BA0
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R7F7010113AFP-C#TA8	R7F7010284AFP-C#AA4	R7F7010484AFD-C#BA4	R7F701A004AFE-C#KA4
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R7F7010154AFP-C#BA2	R7F7010304AFE-C#KA4	R7F7010504AFD-C#AA4	R7F701A323AFP-C#BA4
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RH850/F1 Series (Wafer Process Site: Naka)

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RH850/F1 Series (Wafer Process Site: TSMC)

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R7F7015633AFE-C#AA3	R7F7016203AFP-C#AA3	R7F701690FAFP-C#AA2	R7F701A763AFP-C#TA2
R7F7015633AFE-C#BA3	R7F7016203AFP-C#BA3	R7F701690FAFP-C#BA1	R7F701A773AFP-C#AA1
R7F7015633AFE-C#KA3	R7F7016203AFP-C#KA3	R7F701690FAFP-C#BA2	R7F701A773AFP-C#AA2
R7F7015633AFP-C#AA3	R7F7016204AFD-C#AA3	R7F701690FAFP-C#TA1	R7F701A773AFP-C#BA1
R7F7015633AFP-C#BA3	R7F7016204AFD-C#BA3	R7F701690FAFP-C#TA2	R7F701A773AFP-C#BA2
R7F7015633AFP-C#KA3	R7F7016204AFD-C#KA3	R7F7016913AFP-C#AA1	R7F701A773AFP-C#KA1
R7F7015634AFD-C#AA3	R7F7016204AFE-C#AA3	R7F7016913AFP-C#AA2	R7F701A773AFP-C#KA2
R7F7015634AFD-C#BA3	R7F7016204AFE-C#BA3	R7F7016913AFP-C#BA1	R7F701A783AFP-C#AA1
R7F7015634AFD-C#KA3	R7F7016204AFE-C#KA3	R7F7016913AFP-C#BA2	R7F701A783AFP-C#AA2

R7F7015634AFE-C#AA3	R7F7016204AFP-C#AA3	R7F7016913AFP-C#TA1	R7F701A783AFP-C#BA1
R7F7015634AFE-C#BA3	R7F7016204AFP-C#BA3	R7F7016913AFP-C#TA2	R7F701A783AFP-C#BA2
R7F7015634AFE-C#KA3	R7F7016204AFP-C#KA3	R7F7016914AFP-C#AA1	R7F701A783AFP-C#KA1
R7F7015634AFP-C#AA3	R7F7016213AFD-C#AA3	R7F7016914AFP-C#AA2	R7F701A783AFP-C#KA2
R7F7015634AFP-C#BA3	R7F7016213AFD-C#BA3	R7F7016914AFP-C#BA1	R7F701A793AFP-C#AA1
R7F7015634AFP-C#KA3	R7F7016213AFD-C#KA3	R7F7016914AFP-C#BA2	R7F701A793AFP-C#AA2
R7F7015643AFD-C#AA2	R7F7016213AFE-C#AA3	R7F7016914AFP-C#TA1	R7F701A793AFP-C#BA1
R7F7015643AFD-C#BA2	R7F7016213AFE-C#BA3	R7F7016914AFP-C#TA2	R7F701A793AFP-C#BA2
R7F7015643AFD-C#KA2	R7F7016213AFE-C#KA3	R7F701691FAFP-C#AA1	R7F701A793AFP-C#TA1
R7F7015643AFE-C#AA2	R7F7016213AFP-C#AA3	R7F701691FAFP-C#AA2	R7F701A793AFP-C#TA2
R7F7015643AFE-C#BA2	R7F7016213AFP-C#BA3	R7F701691FAFP-C#BA1	R7F701A803AFP-C#AA1
R7F7015643AFE-C#KA2	R7F7016213AFP-C#KA3	R7F701691FAFP-C#BA2	R7F701A803AFP-C#AA2
R7F7015643AFP-C#AA2	R7F7016214AFD-C#AA3	R7F701691FAFP-C#TA1	R7F701A803AFP-C#BA1
R7F7015643AFP-C#BA2	R7F7016214AFD-C#BA3	R7F701691FAFP-C#TA2	R7F701A803AFP-C#BA2
R7F7015643AFP-C#KA2	R7F7016214AFD-C#KA3	R7F7016923AFP-C#AA1	R7F701A803AFP-C#TA1
R7F7015644AFD-C#AA2	R7F7016214AFE-C#AA3	R7F7016923AFP-C#AA2	R7F701A803AFP-C#TA2
R7F7015644AFD-C#BA2	R7F7016214AFE-C#BA3	R7F7016923AFP-C#AA9	R7F701A813AFP-C#AA1
R7F7015644AFD-C#KA2	R7F7016214AFE-C#KA3	R7F7016923AFP-C#BA1	R7F701A813AFP-C#AA2
R7F7015644AFE-C#AA2	R7F7016214AFP-C#AA3	R7F7016923AFP-C#BA2	R7F701A813AFP-C#BA1
R7F7015644AFE-C#BA2	R7F7016214AFP-C#BA3	R7F7016923AFP-C#BA9	R7F701A813AFP-C#BA2
R7F7015644AFE-C#KA2	R7F7016214AFP-C#KA3	R7F7016923AFP-C#TA1	R7F701A813AFP-C#KA1
R7F7015644AFP-C#AA2	R7F7016223AFD-C#AA3	R7F7016923AFP-C#TA2	R7F701A813AFP-C#KA2
R7F7015644AFP-C#BA2	R7F7016223AFD-C#BA3	R7F7016923AFP-C#TA9	R7F701A823AFP-C#AA1
R7F7015644AFP-C#KA2	R7F7016223AFD-C#KA3	R7F7016924AFP-C#AA1	R7F701A823AFP-C#AA2
R7F7015653AFD-C#AA2	R7F7016223AFE-C#AA3	R7F7016924AFP-C#AA2	R7F701A823AFP-C#BA1
R7F7015653AFD-C#BA2	R7F7016223AFE-C#BA3	R7F7016924AFP-C#AA9	R7F701A823AFP-C#BA2
R7F7015653AFD-C#KA2	R7F7016223AFE-C#KA3	R7F7016924AFP-C#BA1	R7F701A823AFP-C#KA1
R7F7015653AFE-C#AA2	R7F7016223AFP-C#AA3	R7F7016924AFP-C#BA2	R7F701A823AFP-C#KA2
R7F7015653AFE-C#BA2	R7F7016223AFP-C#BA3	R7F7016924AFP-C#BA9	R7F701A833AFP-C#AA1
R7F7015653AFE-C#KA2	R7F7016223AFP-C#KA3	R7F7016924AFP-C#TA1	R7F701A833AFP-C#AA2
R7F7015653AFP-C#AA2	R7F7016224AFD-C#AA3	R7F7016924AFP-C#TA2	R7F701A833AFP-C#BA1
R7F7015653AFP-C#BA2	R7F7016224AFD-C#BA3	R7F7016924AFP-C#TA9	R7F701A833AFP-C#BA2
R7F7015653AFP-C#KA2	R7F7016224AFD-C#KA3	R7F701692FAFP-C#AA1	R7F701A833AFP-C#KA1
R7F7015654AFD-C#AA2	R7F7016224AFE-C#AA3	R7F701692FAFP-C#AA2	R7F701A833AFP-C#KA2
R7F7015654AFD-C#BA2	R7F7016224AFE-C#BA3	R7F701692FAFP-C#BA1	R7F701A843AFP-C#AA1
R7F7015654AFD-C#KA2	R7F7016224AFE-C#KA3	R7F701692FAFP-C#BA2	R7F701A843AFP-C#AA2
R7F7015654AFE-C#AA2	R7F7016224AFP-C#AA3	R7F701692FAFP-C#TA1	R7F701A843AFP-C#BA1
R7F7015654AFE-C#BA2	R7F7016224AFP-C#BA3	R7F701692FAFP-C#TA2	R7F701A843AFP-C#BA2
R7F7015654AFE-C#KA2	R7F7016224AFP-C#KA3	R7F7016933AFP-C#AA1	R7F701A843AFP-C#KA1
R7F7015654AFP-C#AA2	R7F7016233AFD-C#AA3	R7F7016933AFP-C#AA2	R7F701A843AFP-C#KA2

RH850/R1 Series (Wafer Process Site: Naka and TSMC)

R7F7010603AFP-C#AA4	R7F7010643AFP-C#TA2	R7F7010693AFP-C#BA2	R7F701A033AFP-C#BA8
R7F7010603AFP-C#BA4	R7F7010643AFP-C#TA8	R7F7010693AFP-C#KA2	R7F701A033AFP-C#TA8
R7F7010603AFP-C#TA4	R7F7010653AFP-C#AA4	R7F7010713AFP-C#AA4	R7F701A083AFP-C#AA4
R7F7010623AFP-C#AA4	R7F7010653AFP-C#BA4	R7F7010713AFP-C#BA4	R7F701A083AFP-C#BA4
R7F7010623AFP-C#BA4	R7F7010653AFP-C#KA4	R7F7010713AFP-C#KA4	R7F701A083AFP-C#KA4
R7F7010623AFP-C#TA4	R7F7010673AFP-C#AA4	R7F701A023AFP-C#AA8	R7F701A223AFP-C#AA4
R7F7010643AFP-C#AA2	R7F7010673AFP-C#BA4	R7F701A023AFP-C#BA8	R7F701A223AFP-C#BA4
R7F7010643AFP-C#AA8	R7F7010673AFP-C#KA4	R7F701A023AFP-C#TA8	R7F701A233AFP-C#AA4
R7F7010643AFP-C#BA2	R7F7010693AFP-C#AA2	R7F701A033AFP-C#AA8	

RH850/D1 Series (Wafer Process Site: TSMC)

R7F701402EAFB-C#AA1	R7F701423EAFE-C#BA1	R7F701401EA46AFB-C#KA1	R7F701416E***AFD-C#KA0
R7F701402EAFB-C#KA1	R7F701423E***AFE-C#AA1	R7F701421EAFB-C#KA9	R7F701436EAFD-C#AA0
R7F701402EAFB-C#BA1	R7F701423E***AFE-C#BA1	R7F701421E***AFB-C#KA9	R7F701436EAFD-C#BA0
R7F701422EAFB-C#AA1	R7F701403EAFE-C#TA1	R7F701400EAFE-C#AA1	R7F701436EAFD-C#KA0
R7F701422EAFB-C#KA1	R7F701423EAFE-C#TA1	R7F701400EAFE-C#BA1	R7F701436E***AFD-C#AA0
R7F701422EAFB-C#BA1	R7F701423EAFE-C#TA9	R7F701400EAFE-C#KA1	R7F701436E***AFD-C#BA0
R7F701414EAFB-C#AA1	R7F701403E***AFE-C#TA1	R7F701400E***AFE-C#AA1	R7F701436E***AFD-C#KA0
R7F701414EAFB-C#KA1	R7F701423E***AFE-C#TA1	R7F701400E***AFE-C#BA1	R7F701416EA34AFD-C#KA0
R7F701414EAFB-C#BA1	R7F701423E***AFE-C#TA9	R7F701400E***AFE-C#KA1	R7F701416EA35AFD-C#KA0
R7F701434EAFB-C#AA1	R7F701402EAFD-C#BA1	R7F701420EAFE-C#AA1	R7F701416EA43AFD-C#KA0
R7F701434EAFB-C#KA1	R7F701422EAFD-C#BA1	R7F701420EAFE-C#BA1	R7F701416EA44AFD-C#KA0
R7F701434EAFB-C#BA1	R7F701414EAFD-C#BA1	R7F701420EAFE-C#KA1	R7F701436EAFD-C#KA9
R7F701402E***AFB-C#AA1	R7F701434EAFD-C#BA1	R7F701420E***AFE-C#AA1	R7F701436E***AFD-C#KA9
R7F701402E***AFB-C#KA1	R7F701402E***AFD-C#BA1	R7F701420E***AFE-C#BA1	R7F701417EAFD-C#AA0
R7F701402E***AFB-C#BA1	R7F701422E***AFD-C#BA1	R7F701420E***AFE-C#KA1	R7F701417EAFD-C#BA0
R7F701422E***AFB-C#AA1	R7F701414E***AFD-C#BA1	R7F701420EAFE-C#KA9	R7F701417EAFD-C#KA0
R7F701422E***AFB-C#KA1	R7F701434E***AFD-C#BA1	R7F701420E***AFE-C#KA9	R7F701417E***AFD-C#AA0
R7F701422E***AFB-C#BA1	R7F701402EAFD-C#KA1	R7F701401EA31AFE-C#KA1	R7F701417E***AFD-C#BA0
R7F701414E***AFB-C#AA1	R7F701422EAFD-C#KA1	R7F701401EA46AFE-C#KA1	R7F701417E***AFD-C#KA0
R7F701414E***AFB-C#KA1	R7F701414EAFD-C#KA1	R7F701401EAFE-C#AA1	R7F701437EAFD-C#AA0
R7F701414E***AFB-C#BA1	R7F701434EAFD-C#KA1	R7F701401EAFE-C#BA1	R7F701437EAFD-C#BA0
R7F701434E***AFB-C#AA1	R7F701402E***AFD-C#KA1	R7F701401EAFE-C#KA1	R7F701437EAFD-C#KA0
R7F701434E***AFB-C#KA1	R7F701422E***AFD-C#KA1	R7F701401E***AFE-C#AA1	R7F701437E***AFD-C#AA0
R7F701434E***AFB-C#BA1	R7F701414E***AFD-C#KA1	R7F701401E***AFE-C#BA1	R7F701437E***AFD-C#BA0
R7F701402EA02AFB-C#AA1	R7F701434E***AFD-C#KA1	R7F701401E***AFE-C#KA1	R7F701437E***AFD-C#KA0
R7F701414EA03AFB-C#AA1	R7F701402EAFD-C#AA1	R7F701421EAFE-C#AA1	R7F701437EAFD-C#KA9
R7F701414EA04AFB-C#AA1	R7F701422EAFD-C#AA1	R7F701421EAFE-C#BA1	R7F701437E***AFD-C#KA9
R7F701414EA05AFB-C#AA1	R7F701414EAFD-C#AA1	R7F701421EAFE-C#KA1	R7F701441EABG-C#AC0
R7F701402EA12AFB-C#AA1	R7F701434EAFD-C#AA1	R7F701421E***AFE-C#AA1	R7F701441EABG-C#HC0
R7F701414EA13AFB-C#AA1	R7F701402E***AFD-C#AA1	R7F701421E***AFE-C#BA1	R7F701461EABG-C#AC0

R7F701402EA14AFB-C#AA1	R7F701422E***AFD-C#AA1	R7F701421E***AFE-C#KA1	R7F701461EABG-C#HC0
R7F701414EA15AFB-C#AA1	R7F701414E***AFD-C#AA1	R7F701421EAFE-C#KA9	R7F701418EABG-C#AC0
R7F701414EA16AFB-C#AA1	R7F701434E***AFD-C#AA1	R7F701421E***AFE-C#KA9	R7F701418EABG-C#HC0
R7F701402EA02AFB-C#KA1	R7F701422EAFD-C#KA9	R7F701400EAFD-C#BA1	R7F701438EABG-C#AC0
R7F701414EA03AFB-C#KA1	R7F701422E***AFD-C#KA9	R7F701420EAFD-C#BA1	R7F701438EABG-C#HC0
R7F701414EA04AFB-C#KA1	R7F701403EAFD-C#BA1	R7F701400E***AFD-C#BA1	R7F701441E***ABG-C#AC0
R7F701414EA05AFB-C#KA1	R7F701423EAFD-C#BA1	R7F701420E***AFD-C#BA1	R7F701441E***ABG-C#HC0
R7F701402EA12AFB-C#KA1	R7F701403E***AFD-C#BA1	R7F701400EAFD-C#KA1	R7F701461E***ABG-C#AC0
R7F701414EA13AFB-C#KA1	R7F701423E***AFD-C#BA1	R7F701420EAFD-C#KA1	R7F701461E***ABG-C#HC0
R7F701402EA14AFB-C#KA1	R7F701403EAFD-C#AA1	R7F701400E***AFD-C#KA1	R7F701418E***ABG-C#AC0
R7F701414EA15AFB-C#KA1	R7F701423EAFD-C#AA1	R7F701420E***AFD-C#KA1	R7F701418E***ABG-C#HC0
R7F701414EA16AFB-C#KA1	R7F701403E***AFD-C#AA1	R7F701400EAFD-C#AA1	R7F701438E***ABG-C#AC0
R7F701414EA54AFB-C#KA1	R7F701423E***AFD-C#AA1	R7F701420EAFD-C#AA1	R7F701438E***ABG-C#HC0
R7F701402EA55AFB-C#KA1	R7F701403EAFD-C#TA1	R7F701400E***AFD-C#AA1	R7F701441EABG-C#BC0
R7F701402EA56AFB-C#KA1	R7F701423EAFD-C#TA1	R7F701420E***AFD-C#AA1	R7F701461EABG-C#BC0
R7F701402EA57AFB-C#KA1	R7F701423EAFD-C#TA9	R7F701420EAFD-C#KA9	R7F701418EABG-C#BC0
R7F701402EA58AFB-C#KA1	R7F701403E***AFD-C#TA1	R7F701420E***AFD-C#KA9	R7F701438EABG-C#BC0
R7F701422EAFB-C#KA9	R7F701423E***AFD-C#TA1	R7F701401EAFD-C#BA1	R7F701441E***ABG-C#BC0
R7F701422E***AFB-C#KA9	R7F701423E***AFD-C#TA9	R7F701421EAFD-C#BA1	R7F701461E***ABG-C#BC0
R7F701403EAFB-C#AA1	R7F701400EAFB-C#AA1	R7F701401E***AFD-C#BA1	R7F701418E***ABG-C#BC0
R7F701403EAFB-C#BA1	R7F701400EAFB-C#KA1	R7F701421E***AFD-C#BA1	R7F701438E***ABG-C#BC0
R7F701423EAFB-C#AA1	R7F701400EAFB-C#BA1	R7F701401EAFD-C#KA1	R7F701461EABG-C#HC9
R7F701423EAFB-C#BA1	R7F701420EAFB-C#AA1	R7F701421EAFD-C#KA1	R7F701461E***ABG-C#HC9
R7F701403E***AFB-C#AA1	R7F701420EAFB-C#KA1	R7F701401E***AFD-C#KA1	R7F701441EABE-C#AC0
R7F701403E***AFB-C#BA1	R7F701420EAFB-C#BA1	R7F701421E***AFD-C#KA1	R7F701441EABE-C#BC0
R7F701423E***AFB-C#AA1	R7F701400E***AFB-C#AA1	R7F701401EAFD-C#AA1	R7F701441EABE-C#HC0
R7F701423E***AFB-C#BA1	R7F701400E***AFB-C#KA1	R7F701421EAFD-C#AA1	R7F701461EABE-C#AC0
R7F701403EAFB-C#TA1	R7F701400E***AFB-C#BA1	R7F701401E***AFD-C#AA1	R7F701461EABE-C#BC0
R7F701423EAFB-C#TA1	R7F701420E***AFB-C#AA1	R7F701421E***AFD-C#AA1	R7F701461EABE-C#HC0
R7F701423EAFB-C#TA9	R7F701420E***AFB-C#KA1	R7F701421EAFD-C#KA9	R7F701418EABE-C#AC0
R7F701403E***AFB-C#TA1	R7F701420E***AFB-C#BA1	R7F701421E***AFD-C#KA9	R7F701418EABE-C#BC0
R7F701423E***AFB-C#TA1	R7F701400EA21AFB-C#AA1	R7F701416EAFE-C#AA0	R7F701418EABE-C#HC0
R7F701423E***AFB-C#TA9	R7F701400EA22AFB-C#AA1	R7F701416EAFE-C#BA0	R7F701438EABE-C#AC0
R7F701402EA55AFE-C#KA1	R7F701400EA23AFB-C#AA1	R7F701416EAFE-C#KA0	R7F701438EABE-C#BC0
R7F701402EAFE-C#AA1	R7F701400EA29AFB-C#AA1	R7F701416E***AFE-C#AA0	R7F701438EABE-C#HC0
R7F701402EAFE-C#BA1	R7F701400EA30AFB-C#AA1	R7F701416E***AFE-C#BA0	R7F701461EABE-C#HC9
R7F701402EAFE-C#KA1	R7F701400EA21AFB-C#KA1	R7F701416E***AFE-C#KA0	R7F701441E***ABE-C#AC0
R7F701402E***AFE-C#AA1	R7F701400EA22AFB-C#KA1	R7F701416EA43AFE-C#KA0	R7F701441E***ABE-C#BC0
R7F701402E***AFE-C#BA1	R7F701400EA23AFB-C#KA1	R7F701416EA44AFE-C#KA0	R7F701441E***ABE-C#HC0
R7F701402E***AFE-C#KA1	R7F701400EA29AFB-C#KA1	R7F701436EAFE-C#AA0	R7F701461E***ABE-C#AC0
R7F701414EA15AFE-C#KA1	R7F701400EA30AFB-C#KA1	R7F701436EAFE-C#BA0	R7F701461E***ABE-C#BC0
R7F701414EAFE-C#AA1	R7F701400EA49AFB-C#KA1	R7F701436EAFE-C#KA0	R7F701461E***ABE-C#HC0

R7F701414EAFE-C#BA1	R7F701420EAFB-C#KA9	R7F701436E***AFE-C#AA0	R7F701418E***ABE-C#AC0
R7F701414EAFE-C#KA1	R7F701420E***AFB-C#KA9	R7F701436E***AFE-C#BA0	R7F701418E***ABE-C#BC0
R7F701414E***AFE-C#AA1	R7F701401EAFB-C#AA1	R7F701436E***AFE-C#KA0	R7F701418E***ABE-C#HC0
R7F701414E***AFE-C#BA1	R7F701401EAFB-C#KA1	R7F701436EAFE-C#KA9	R7F701438E***ABE-C#AC0
R7F701414E***AFE-C#KA1	R7F701401EAFB-C#BA1	R7F701436E***AFE-C#KA9	R7F701438E***ABE-C#BC0
R7F701422EAFE-C#AA1	R7F701421EAFB-C#AA1	R7F701417EAFE-C#AA0	R7F701438E***ABE-C#HC0
R7F701422EAFE-C#BA1	R7F701421EAFB-C#KA1	R7F701417EAFE-C#BA0	R7F701461E***ABE-C#HC9
R7F701422EAFE-C#KA1	R7F701421EAFB-C#BA1	R7F701417EAFE-C#KA0	R7F701442EAFB-C#AA0
R7F701422E***AFE-C#AA1	R7F701401E***AFB-C#AA1	R7F701417E***AFE-C#AA0	R7F701462EAFB-C#AA0
R7F701422E***AFE-C#BA1	R7F701401E***AFB-C#KA1	R7F701417E***AFE-C#BA0	R7F701442EAFB-C#BA0
R7F701422E***AFE-C#KA1	R7F701401E***AFB-C#BA1	R7F701417E***AFE-C#KA0	R7F701462EAFB-C#BA0
R7F701434EAFE-C#AA1	R7F701421E***AFB-C#AA1	R7F701437EAFE-C#AA0	R7F701442E***AFB-C#AA0
R7F701434EAFE-C#BA1	R7F701421E***AFB-C#KA1	R7F701437EAFE-C#BA0	R7F701442E***AFB-C#BA0
R7F701434EAFE-C#KA1	R7F701421E***AFB-C#BA1	R7F701437EAFE-C#KA0	R7F701462E***AFB-C#AA0
R7F701434E***AFE-C#AA1	R7F701401EA00AFB-C#AA1	R7F701437E***AFE-C#AA0	R7F701462E***AFB-C#BA0
R7F701434E***AFE-C#BA1	R7F701401EA01AFB-C#AA1	R7F701437E***AFE-C#BA0	R7F701442EAFB-C#TA0
R7F701434E***AFE-C#KA1	R7F701401EA10AFB-C#AA1	R7F701437E***AFE-C#KA0	R7F701462EAFB-C#TA0
R7F701422EAFE-C#KA9	R7F701401EA24AFB-C#AA1	R7F701437EAFE-C#KA9	R7F701462EAFB-C#TA9
R7F701422E***AFE-C#KA9	R7F701401EA31AFB-C#AA1	R7F701437E***AFE-C#KA9	R7F701442E***AFB-C#TA0
R7F701403EAFE-C#AA1	R7F701401EA00AFB-C#KA1	R7F701416EAFD-C#AA0	R7F701462E***AFB-C#TA0
R7F701403EAFE-C#BA1	R7F701401EA01AFB-C#KA1	R7F701416EAFD-C#BA0	R7F701462E***AFB-C#TA9
R7F701403E***AFE-C#AA1	R7F701401EA10AFB-C#KA1	R7F701416EAFD-C#KA0	
R7F701403E***AFE-C#BA1	R7F701401EA24AFB-C#KA1	R7F701416E***AFD-C#AA0	
R7F701423EAFE-C#AA1	R7F701401EA31AFB-C#KA1	R7F701416E***AFD-C#BA0	

“***” means ROM Code

RH850/P1 Series (Wafer Process Site: TSMC)

R7F701391EAFP-C#AA1	R7F701364GAFA-C#BA1	R7F701322EAFP-C#AA1	R7F701378GAFA-C#KA2
R7F701391EAFP-C#BA1	R7F701321EAFP-C#BA1	R7F701322GAFA-C#AA1	R7F701383EAFP-C#KA2
R7F701391EAFP-C#RA1	R7F701365EAFP-C#BA1	R7F701366EAFP-C#AA1	R7F701384EAFP-C#KA2
R7F701390EAFP-C#AA1	R7F701310EAFP-C#AA1	R7F701366GAFA-C#AA1	R7F701384GAFA-C#KA2
R7F701390EAFP-C#BA1	R7F701310GAFA-C#AA1	R7F701323EAFP-C#AA1	R7F701377EAFP-C#BA2
R7F701390EAFP-C#RA1	R7F701310EAFP-C#AA4	R7F701367EAFP-C#AA1	R7F701378EAFP-C#BA2
R7F701389EAFP-C#AA1	R7F701310GAFA-C#AA4	R7F701314EAFP-C#KA1	R7F701378GAFA-C#BA2
R7F701389EAFP-C#BA1	R7F701311EAFP-C#AA1	R7F701314GAFA-C#KA1	R7F701383EAFP-C#BA2
R7F701389EAFP-C#RA1	R7F701318EAFP-C#AA1	R7F701315EAFP-C#KA1	R7F701384EAFP-C#BA2
R7F701388EAFP-C#AA1	R7F701318GAFA-C#AA1	R7F701322EAFP-C#KA1	R7F701384GAFA-C#BA2
R7F701388EAFP-C#BA1	R7F701362EAFP-C#AA1	R7F701322GAFA-C#KA1	R7F701378E***AFP-C#KA2
R7F701388EAFP-C#HA1	R7F701362GAFA-C#AA1	R7F701366EAFP-C#KA1	R7F701378EY02AFP-C#KA2
R7F701374AEAFP-C#AA1	R7F701319EAFP-C#AA1	R7F701366GAFA-C#KA1	R7F701379EAFP-C#AA2
R7F701374AEAFP-C#BA1	R7F701363EAFP-C#AA1	R7F701323EAFP-C#KA1	R7F701380EAFP-C#AA2
R7F701374AEAFP-C#BAT	R7F701363EAFP-C#AAT	R7F701367EAFP-C#KA1	R7F701380GAFA-C#AA2
R7F701374AEAFP-C#BAU	R7F701310EAFP-C#KA1	R7F701314EAFP-C#BA1	R7F701385EAFP-C#AA2

R7F701374AEAFP-C#HA1	R7F701310GAFA-C#KA1	R7F701314GAFA-C#BA1	R7F701386EAFP-C#AA2
R7F701304EAFP-C#AA1	R7F701310EAFP-C#KA4	R7F701315EAFP-C#BA1	R7F701386GAFA-C#AA2
R7F701304GAFA-C#AA1	R7F701310GAFA-C#KA4	R7F701322EAFP-C#BA1	R7F701379EAFP-C#KA2
R7F701305EAFP-C#AA1	R7F701311EAFP-C#KA1	R7F701322GAFA-C#BA1	R7F701380EAFP-C#KA2
R7F701312EAFP-C#AA1	R7F701318EAFP-C#KA1	R7F701366EAFP-C#BA1	R7F701380GAFA-C#KA2
R7F701312GAFA-C#AA1	R7F701318GAFA-C#KA1	R7F701366GAFA-C#BA1	R7F701385EAFP-C#KA2
R7F701313EAFP-C#AA1	R7F701362EAFP-C#KA1	R7F701323EAFP-C#BA1	R7F701386EAFP-C#KA2
R7F701320EAFP-C#AA1	R7F701362GAFA-C#KA1	R7F701367EAFP-C#BA1	R7F701386GAFA-C#KA2
R7F701320GAFA-C#AA1	R7F701319EAFP-C#KA1	R7F701375EAFP-C#AA2	R7F701379EAFP-C#BA2
R7F701364EAFP-C#AA1	R7F701363EAFP-C#KA1	R7F701376EAFP-C#AA2	R7F701380EAFP-C#BA2
R7F701364GAFA-C#AA1	R7F701363EAFP-C#KAT	R7F701376GAFA-C#AA2	R7F701380GAFA-C#BA2
R7F701321EAFP-C#AA1	R7F701310EAFP-C#BA1	R7F701381EAFP-C#AA2	R7F701385EAFP-C#BA2
R7F701365EAFP-C#AA1	R7F701310GAFA-C#BA1	R7F701382EAFP-C#AA2	R7F701386EAFP-C#BA2
R7F701304EAFP-C#KA1	R7F701310EAFP-C#BA4	R7F701382GAFA-C#AA2	R7F701386GAFA-C#BA2
R7F701304GAFA-C#KA1	R7F701310GAFA-C#BA4	R7F701375EAFP-C#KA2	R7F701397AEABG-C#AC1
R7F701305EAFP-C#KA1	R7F701311EAFP-C#BA1	R7F701376EAFP-C#KA2	R7F701397AEABG-C#BC1
R7F701312EAFP-C#KA1	R7F701318EAFP-C#BA1	R7F701376GAFA-C#KA2	R7F701397AEABG-C#HC1
R7F701312GAFA-C#KA1	R7F701318GAFA-C#BA1	R7F701381EAFP-C#KA2	R7F701373AEABG-C#AC1
R7F701313EAFP-C#KA1	R7F701362EAFP-C#BA1	R7F701382EAFP-C#KA2	R7F701373AEABG-C#BC1
R7F701320EAFP-C#KA1	R7F701362GAFA-C#BA1	R7F701382GAFA-C#KA2	R7F701373AEABG-C#HC1
R7F701320GAFA-C#KA1	R7F701319EAFP-C#BA1	R7F701375EAFP-C#BA2	R7F701396AEABG-C#AC1
R7F701364EAFP-C#KA1	R7F701363EAFP-C#BA1	R7F701376EAFP-C#BA2	R7F701396AEABG-C#BC1
R7F701364GAFA-C#KA1	R7F701363EAFP-C#BAT	R7F701376GAFA-C#BA2	R7F701396AEABG-C#HC1
R7F701321EAFP-C#KA1	R7F701310E***AFP-C#KA4	R7F701381EAFP-C#BA2	R7F701372AEABG-C#AC1
R7F701365EAFP-C#KA1	R7F701310EY01AFP-C#KA4	R7F701382EAFP-C#BA2	R7F701372AEABG-C#BC1
R7F701304EAFP-C#BA1	R7F701318E***AFP-C#KA1	R7F701382GAFA-C#BA2	R7F701372AEABG-C#HC1
R7F701304GAFA-C#BA1	R7F701318EY03AFP-C#KA1	R7F701377EAFP-C#AA2	R7F701371EABG-C#AC1
R7F701305EAFP-C#BA1	R7F701318EY04AFP-C#KA1	R7F701378EAFP-C#AA2	R7F701371EABG-C#BC1
R7F701312EAFP-C#BA1	R7F701362E***AFP-C#KA1	R7F701378GAFA-C#AA2	R7F701371EABG-C#HC1
R7F701312GAFA-C#BA1	R7F701362EY05AFP-C#KA1	R7F701383EAFP-C#AA2	R7F701372AEABE-C#AC1
R7F701313EAFP-C#BA1	R7F701362EY06AFP-C#KA1	R7F701384EAFP-C#AA2	R7F701372AEABE-C#BC1
R7F701320EAFP-C#BA1	R7F701314EAFP-C#AA1	R7F701384GAFA-C#AA2	R7F701372AEABE-C#HC1
R7F701320GAFA-C#BA1	R7F701314GAFA-C#AA1	R7F701377EAFP-C#KA2	
R7F701364EAFP-C#BA1	R7F701315EAFP-C#AA1	R7F701378EAFP-C#KA2	

“***” means ROM Code

RH850/E1 Series (Wafer Process Site: Naka)

R7F701202EABG-C#BC1	R7F701207EABG-C#BC1	R7F701204EABA-C#BC1	R7F701204EABG-C#BC1
R7F701202EABA-C#BC1	R7F701202EA01ABA-C#BC1		

RH850/E1 Series (Wafer Process Site: TSMC)

R7F701201EABG-C#BC0	R7F701207EABG-C#BC0	R7F701215EABG-C#BC0	R7F701A42EABG-C#BC0
R7F701205EABG-C#BC0	R7F701202EABA-C#BC0	R7F701215EABA-C#BC0	R7F701A43EABG-C#BC0
R7F701202EABG-C#BC0	R7F701204EABA-C#BC0	R7F701216EABG-C#BC0	
R7F701204EABG-C#BC0	R7F701202EA01ABA-C#BC0	R7F701216EABA-C#BC0	

RH850/C1 Series (Wafer Process Site: Naka and TSMC)

R7F701283EA01ABG-C#BC0			
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RH850/C1 Series (Wafer Process Site: Naka)

R7F701275EABG-C#BC0			
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RH850/C1 Series (Wafer Process Site: TSMC)

R7F701270EABG-C#BC4	R7F701268EA01ABG-C#BC4	R7F701275EABG-C#HC4	R7F701275EABG-C#HC6
R7F701270EABG-C#HC4	R7F701275EABG-C#BC4	R7F701275EABG-C#BC6	R7F701283EA01ABG-C#BC4

RH850/E2 Series (Wafer Process Site: TSMC)

R7F702002AEABG-C#BC0	R7F702003AEABA-C#BC0	R7F702004AEABA-C#BC0	R7F702002AEABG-C#AC0
R7F702002AEABA-C#BC0	R7F702004AEABG-C#BC0	R7F702005AEABG-C#BC0	R7F702002AEABA-C#AC0

Q100 Qualification Test Results

AEC-Q100-REV-H

[Note : Qualification tests were performed using a representative product with the same wafer process and the same package structure, and also using generic data.]

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP A – ACCELERATED ENVIRONMENT STRESS TESTS

PC	A1	JESD22 A113 J-STD-020	Preconditioning: (Test @ Rm) SMD only; Moisture Preconditioning for THB/HAST, AC/UHST, TC, & PTC ; Peak Reflow Temp=260°C	Min.MSL=3			MSL=3	-
THB or HAST	A2	JESD22 A101	Temperature Humidity Bias: (Test @ Rm/Hot) Ta=85°C, RH=85%, 1000hrs	3	77	231	0 of 231	-
AC or UHST or TH	A3	JESD22 A118	Unbiased Highly Accelerated Stress Test: (Test @ Rm) Ta=110°C, 85% RH, 264h	3	77	231	0 of 231	-
TC	A4	JESD22 A104	Temperature Cycle: (Test @ Hot) Ta=-55°C to 150°C, 1000cyc	3	77	231	0 of 231 0 Fails after TC (WBP)	-
PTC	A5	JESD22 A105	Power Temperature Cycle: (Test @ Rm/Hot) -	-	-	-	-	N/A
HTSL	A6	JESD22 A103	High Temperature Storage Life: (Test @ Rm/Hot) Ta=175°C, 500hrs	1	45	45	0 of 45	-

TEST GROUP B – ACCELERATED LIFETIME SIMULATION TESTS

HTOL	B1	JESD22 A108	High Temp Operating Life: (Test @ Rm/Cold/Hot) Ta=150°C, 1000hrs	3	77	231	0 of 231	-
ELFR	B2	AEC-Q100-008	Early Life Failure Rate: (Test @ Rm/Hot) Ta=125°C, 48hrs	3	800	2400	0 of 2400	-
EDR	B3	AEC-Q100-005	NVM Endurance & Data Retention Test: (Test @ Rm/Hot)	For HTOL	3	77	231	0 of 231
				For HTSL	1	45	45	0 of 45

TEST GROUP C – PACKAGE ASSEMBLY INTEGRITY TESTS

WBS	C1	AEC-Q100-001 AEC-Q003	Wire Bond Shear Test: (Cpk > 1.67)	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
WBP	C2	Mil-STD-883 Method 2011 AEC-Q003	Wire Bond Pull: (Cpk > 1.67); Each bonder used	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
SD	C3	JESD22 B102 JSTD-002D	Solderability: (>95% coverage) 8 hr steam aging prior to testing	1	15	15	0 of 15	LQFP results BGA : N/A
PD	C4	JESD22 B100, JESD22 B108 AEC-Q003	Physical Dimensions: (Cpk > 1.67)	3	10	30	0 of 30	Cpk>1.67
SBS	C5	AEC-Q100-010 AEC-Q003	Solder Ball Shear: (Cpk > 1.67); 5 balls from min. of 10 devices	3	50balls	150	0 of 150	BGA results LQFP : N/A
LI	C6	JESD22 B105	Lead Integrity: (No lead cracking or breaking); Through-hole only; 10 leads from each of 5 devices	-	-	-	-	N/A

TEST GROUP D – DIE FABRICATION RELIABILITY TESTS

EM	D1	JESD61	Electromigration:	-	-	-	Pass	Confirmed by process TEG
TDDb	D2	JESD35	Time Dependant Dielectric Breakdown:	-	-	-	Pass	Confirmed by process TEG
HCI	D3	JESD60 & 28	Hot Carrier Injection:	-	-	-	Pass	Confirmed by process TEG
NBTI	D4	JESD90	Negative Bias Temperature Instability:	-	-	-	Pass	Confirmed by process TEG
SM	D5	JESD61,87 & 202	Stress Migration:	-	-	-	Pass	Confirmed by process TEG

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP E- ELECTRICAL VERIFICATION

TEST	E1	User/Supplier Specification	Pre and Post Stress Electrical Test:	All	All	All	0 of All	-
HBM	E2	AEC-Q100-002	Electrostatic Discharge, Human Body Model: (Test @ Rm/Hot); (2KV HBM / Class 2 or better)	1	3	3	0 of 3 ESD Level= HBM:2	HBM>2KV
CDM	E3	AEC-Q100-011	Electrostatic Discharge, Charged Device Model: (Test @ Rm/Hot); (750V corner leads, 500V all other leads / Class C4B or better)	1	3	3	0 of 3 ESD Level= CDM:C4B	Corner leads: 750V Pass All other leads:500V Pass
LU	E4	AEC-Q100-004	Latch-Up: (Test @ Rm/Hot)	1	6	6	0 of 6	-
ED	E5	AEC-Q100-009 AEC-Q003	Electrical Distributions: (Test @ Rm/Hot/Cold) (where applicable, Cpk>1.67)	3	30	90	Cpk>1.67	-
FG	E6	AEC-Q100-007	Fault Grading:	-	-	-	>98%	-
CHAR	E7	AEC-Q003	Characterization: (Test @ Rm/Hot/Cold)	-	-	-	Pass	According to Renesas standard procedure
EMC	E9	SAE J1752/3	Electromagnetic Compatibility (Radiated Emissions)	1	1	1	0 of 1	-
SC	E10	AEC Q100-012	Short Circuit Characterization	-	-	-	-	N/A
SER	E11	JESD89-1 JESD89-2 JESD89-3	Soft Error Rate	1	3	3	Pass	-
LF	E12	AEC-Q005	Lead (Pb) Free: (see AEC-Q005)	-	-	-	Pass	LQFP results Solderability: See SD (C3) result. Solder heat resistance: N/A (Wave Solder is Not recommended.) Whisker: Performed on product TEG with test method based on JESD201. BGA : N/A

TEST GROUP F – DEFECT SCREENING TESTS

PAT	F1	AEC-Q001	Process Average Testing: (see AEC-Q001)	All	All	All	Reject units outside PAT limits	Apply to mass production according to Renesas standard procedure
SBA	F2	AEC-Q002	Statistical Bin/Yield Analysis: (see AEC-Q002)	All	All	All	Reject units outside criteria	Apply to mass production according to Renesas standard procedure

TEST GROUP G – CAVITY PACKAGE INTEGRITY TESTS (for Ceramic Package testing only)

MS	G1	JESD22 B104	Mechanical Shock: (Test @ Rm)	-	-	-	-	N/A
VFV	G2	JESD22 B103	Variable Frequency Vibration: (Test @ Rm)	-	-	-	-	N/A
CA	G3	MIL-STD-883 Method 2001	Constant Acceleration: (Test @ Rm)	-	-	-	-	N/A
GFL	G4	MIL-STD-883 Method 1014	Gross and Fine Leak:	-	-	-	-	N/A
DROP	G5	-----	Drop Test: (Test @ Rm) MEMS cavity parts only. Drop part on each of 6 axes once from a height of 1.2m onto a concrete surface.	-	-	-	-	N/A
LT	G6	MIL-STD-883 Method 2004	Lid Torque:	-	-	-	-	N/A
DS	G7	MIL-STD-883 Method 2019	Die Shear:	-	-	-	-	N/A
IWV	G8	MIL-STD-883 Method 1018	Internal Water Vapor:	-	-	-	-	N/A