

Product Change Notice (PCN)

Subject: Addition of production site for RL78/G13.

Publication Date: 7/19/2023

Effective Date: 1/31/2024

Revision Description: Initial release.

Description of Change:

Addition of Wafer fabrication site: Renesas Semiconductor Manufacturing Naka

Affected Product List:

R5F100FAAFP#10	R5F100FCAFP#10	R5F100FDAFP#10	R5F100FEAFP#10
R5F101FAAFP#10	R5F101FCAFP#10	R5F101FDAFP#10	R5F101FEAFP#10
R5F100FFAFP#10	R5F100FGAFP#10	R5F100FHAFP#10	R5F100FJAFP#10
R5F101FFAFP#10	R5F101FGAFP#10	R5F101FHAFP#10	R5F101FJAFP#10
R5F100FKAFP#10	R5F100FLAFP#10	R5F100FKDFP#10	R5F100FLDFP#10
R5F101FKAFP#10	R5F101FLAFP#10	R5F101FKDFP#10	R5F101FLDFP#10
R5F100FAAFP#50	R5F100FCAFP#50	R5F100FDAFP#50	R5F100FEAFP#50
R5F101FAAFP#50	R5F101FCAFP#50	R5F101FDAFP#50	R5F101FEAFP#50
R5F100FFAFP#50	R5F100FGAFP#50	R5F100FHAFP#50	R5F100FJAFP#50
R5F101FFAFP#50	R5F101FGAFP#50	R5F101FHAFP#50	R5F101FJAFP#50
R5F100FKAFP#50	R5F100FLAFP#50	R5F100FKDFP#50	R5F100FLDFP#50
R5F101FKAFP#50	R5F101FLAFP#50	R5F101FKDFP#50	R5F101FLDFP#50
R5F100GAAFB#10	R5F100GCAFB#10	R5F100GDAFB#10	R5F100GEAFB#10
R5F101GAAFB#10	R5F101GCAFB#10	R5F101GDAFB#10	R5F101GEAFB#10
R5F100GFAFB#10	R5F100GGAFB#10	R5F100GHAFB#10	R5F100GJAFB#10
R5F101GFAFB#10	R5F101GGAFB#10	R5F101GHAFB#10	R5F101GJAFB#10
R5F100GKAFB#10	R5F100GLAFB#10	R5F100GKDFB#10	R5F100GLDFB#10
R5F101GKAFB#10	R5F101GLAFB#10	R5F101GKDFB#10	R5F101GLDFB#10
R5F100GAAFB#50	R5F100GCAFB#50	R5F100GDAFB#50	R5F100GEAFB#50
R5F101GAAFB#50	R5F101GCAFB#50	R5F101GDAFB#50	R5F101GEAFB#50
R5F100GFAFB#50	R5F100GGAFB#50	R5F100GHAFB#50	R5F100GJAFB#50
R5F101GFAFB#50	R5F101GGAFB#50	R5F101GHAFB#50	R5F101GJAFB#50
R5F100GKAFB#50	R5F100GLAFB#50	R5F100GKDFB#50	R5F100GLDFB#50
R5F101GKAFB#50	R5F101GLAFB#50	R5F101GKDFB#50	R5F101GLDFB#50
R5F100JCAFA#10	R5F100JDAFA#10	R5F100JEFA#10	R5F101JCAFA#10
R5F101JDAFA#10	R5F101JEFA#10	R5F100JFAFA#10	R5F100JGAFA#10
R5F100JHAFB#10	R5F100JJAFB#10	R5F101JFAFA#10	R5F101JGAFA#10
R5F101JHAFB#10	R5F101JJAFB#10	R5F100JKAFB#10	R5F100JLAFB#10
R5F100JKDFA#10	R5F100JLDFB#10	R5F101JKAFB#10	R5F101JLAFB#10
R5F101JKDFA#10	R5F101JLDFB#10	R5F100JCAFA#50	R5F100JDAFA#50
R5F100JEFA#50	R5F101JCAFA#50	R5F101JDAFA#50	R5F101JEFA#50
R5F100JFAFA#50	R5F100JGAFA#50	R5F100JHAFB#50	R5F100JJAFB#50
R5F101JFAFA#50	R5F101JGAFA#50	R5F101JHAFB#50	R5F101JJAFB#50
R5F100JKAFB#50	R5F100JLAFB#50	R5F100JKDFA#50	R5F100JLDFB#50
R5F101JKAFB#50	R5F101JLAFB#50	R5F101JKDFA#50	R5F101JLDFB#50
R5F100LCAFA#10	R5F100LDAFA#10	R5F100LEAFA#10	R5F100LCAFB#10
R5F100LDAFB#10	R5F100LEAFB#10	R5F100LCDFA#10	R5F100LDDFA#10
R5F100LEDFA#10	R5F101LCAFA#10	R5F101LDAFA#10	R5F101LEAFA#10
R5F101LCAFB#10	R5F101LDAFB#10	R5F101LEAFB#10	R5F101LCDFA#10
R5F101LDDFA#10	R5F101LEDFA#10	R5F100LFAFA#10	R5F100LGAFA#10
R5F100LHAFB#10	R5F100LJAFB#10	R5F100LFAFB#10	R5F100LGAFB#10
R5F100LHAFB#10	R5F100LJAFB#10	R5F100LFDFA#10	R5F100LGDFB#10
R5F100LHDFB#10	R5F100LJDFB#10	R5F101LFAFA#10	R5F101LGAFA#10

R5F101LHAFB#10	R5F101LJAFB#10	R5F101LFAFB#10	R5F101LGAFB#10
R5F101LHAFB#10	R5F101LJAFB#10	R5F101LFDFA#10	R5F101LGDFB#10
R5F101LHDFB#10	R5F101LJDFB#10	R5F100LKAFB#10	R5F100LLAFB#10
R5F100LKAFB#10	R5F100LLAFB#10	R5F100LKDFB#10	R5F100LLDFB#10
R5F100LKDFB#10	R5F100LLDFB#10	R5F101LKAFB#10	R5F101LLAFB#10
R5F101LKAFB#10	R5F101LLAFB#10	R5F101LKDFB#10	R5F101LLDFB#10
R5F101LKDFB#10	R5F101LLDFB#10	R5F100LCAFA#50	R5F100LDAFA#50
R5F100LEAFB#50	R5F100LCAFB#50	R5F100LDAFB#50	R5F100LEAFB#50
R5F100LCDFA#50	R5F100LDDFA#50	R5F100LEDFA#50	R5F101LCAFA#50
R5F101LDAFA#50	R5F101LEAFB#50	R5F101LCAFB#50	R5F101LDAFB#50
R5F101LEAFB#50	R5F101LCDFA#50	R5F101LDDFA#50	R5F101LEDFA#50
R5F100LFAFA#50	R5F100LGAFB#50	R5F100LHAFB#50	R5F100LJAFB#50
R5F100LFAFB#50	R5F100LGAFB#50	R5F100LHAFB#50	R5F100LJAFB#50
R5F100LFDFA#50	R5F100LGDFB#50	R5F100LHDFB#50	R5F100LJDFB#50
R5F101LFAFA#50	R5F101LGAFB#50	R5F101LHAFB#50	R5F101LJAFB#50
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R5F100LKAFB#50	R5F100LLAFB#50	R5F100LKAFB#50	R5F100LLAFB#50
R5F100LKDFB#50	R5F100LLDFB#50	R5F100LKDFB#50	R5F100LLDFB#50
R5F101LKAFB#50	R5F101LLAFB#50	R5F101LKAFB#50	R5F101LLAFB#50
R5F101LKDFB#50	R5F101LLDFB#50	R5F101LKDFB#50	R5F101LLDFB#50
R5F100MFAFB#10	R5F100MGAFB#10	R5F100MHAFB#10	R5F100MJAFB#10
R5F101MFAFB#10	R5F101MGAFB#10	R5F101MHAFB#10	R5F101MJAFB#10
R5F100MKAFB#10	R5F100MLAFB#10	R5F100MKDFB#10	R5F100MLDFB#10
R5F101MKAFB#10	R5F101MLAFB#10	R5F101MKDFB#10	R5F101MLDFB#10
R5F100MFAFB#50	R5F100MGAFB#50	R5F100MHAFB#50	R5F100MJAFB#50
R5F101MFAFB#50	R5F101MGAFB#50	R5F101MHAFB#50	R5F101MJAFB#50
R5F100MKAFB#50	R5F100MLAFB#50	R5F100MKDFB#50	R5F100MLDFB#50
R5F101MKAFB#50	R5F101MLAFB#50	R5F101MKDFB#50	R5F101MLDFB#50
R5F100PFAFB#10	R5F100PGAFA#10	R5F100PHAFA#10	R5F100PJAFB#10
R5F101PFAFB#10	R5F101PGAFA#10	R5F101PHAFA#10	R5F101PJAFB#10
R5F100PKAFB#10	R5F100PLAFB#10	R5F100PKDFB#10	R5F100PLDFB#10
R5F101PKAFB#10	R5F101PLAFB#10	R5F101PKDFB#10	R5F101PLDFB#10
R5F100PFAFB#50	R5F100PGAFA#50	R5F100PHAFA#50	R5F100PJAFB#50
R5F101PFAFB#50	R5F101PGAFA#50	R5F101PHAFA#50	R5F101PJAFB#50
R5F100PKAFB#50	R5F100PLAFB#50	R5F100PKDFB#50	R5F100PLDFB#50
R5F101PKAFB#50	R5F101PLAFB#50	R5F101PKDFB#50	R5F101PLDFB#50
R5F100GDA100FB#10	R5F100GDA100FB#30	R5F100GEA100FB#10	R5F100GEA100FB#30
R5F100GEA100FB#50	R5F100GEA101FB#30	R5F100GFA106FB#50	R5F100GFA107FB#50
R5F100GGA101FB#50	R5F100GGA102FB#50	R5F100LFAA00FB#30	R5F100PFAA00FB#30
R5F101LGA100FB#30	R5F101MFAA00FB#30	R5F101MGAA02FB#30	R5F101MGAA06FB#30
R5F101MGAA07FB#10	R5F101MGAA07FB#30	R5F101MGAA08FB#10	R5F101MGAA08FB#30
R5F101MGAA09FB#30			

Reason for Change:

Stable supply for RL78 series G13 products.

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

No Impact

Product Identification:

Possible to confirm the production history data from the packing label or trace code.

Qualification Status: Starts to become available from 12/1/2023.

Sample Availability Date: 10/31/2023 onward.

PCN sample is a representative ES sample.

The ES sample has the same functionality as the mass-produced product

and its sample is the representative (ROM/RAM capacity, Fields of application and back-end factory).

Device Material Declaration: Contact Renesas sales, distributor, or agency.

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

Specifications

Wafer process site addition

Existing site: Renesas Semiconductor Manufacturing Kawashiri, Saijo

Additional site: Renesas Semiconductor Manufacturing Naka

Characteristic

Item \ Wafer process site	Additional site	Existing site
	Naka	Kawashiri, Saijo
AC Characteristic	No Change / No effect	
DC Characteristic	No Change / No effect	

Kawashiri, Saijo and Naka products all make the same inspection for electrical characteristic / functions of User's Manual or DELIVERY SPECIFICATIONS.

So, the electrical characteristics and functions are not changed.

4M changing points (Wafer process site addition)

Process transfer will be performed without change of the basic chip design (chip size, chip patterns).

Item	Check Result	Judgement
Machine	The machines are equivalent to current machines.	No risk
Method	The same as current products.	No risk
Man	Using operator certification system. Only certificated operator can work for the production.	No risk
Material	The same material is used.	No risk

Factory overview

Company Name: Renesas Semiconductor Manufacturing Co., Ltd.

Naka Factory: 751, Horiguchi, Hitachinaka-shi, Ibaraki, 312-8511, Japan

Major Operations: Front-end production of integrated circuits

