

Product Change Notice (PCN)

Subject: Alternate Front Site Metallization (FSM) facility of the listed Renesas PQFN packaged products

Publication Date: 11/14/2023

Effective Date: 2/12/2024

Revision Description:

Initial Release

Description of Change:

Alternate FSM facility of the listed Renesas PQFN packaged products

- *Huatian Kunshan, China (HTKS, China)*

Affected Product List

ISL99360FRZ-TS2568	ISL99390FRZ-TR5992	RAA2213404S02GNP#HB0	RAA2214904S09GNP#HB0
ISL99360HRZ-TS2709	RAA2213204S02GNP#HB0	RAA2213404S09GNP#HB0	RAA2214904S09GNP#HBA
ISL99380FRZ-TR5953	RAA2213204S09GNP#HB0	RAA2214904S04GNP#HB0	RAA2214914S02GNP#HB0
ISL99390FRZ-TR5953	RAA2213404R1YGNP#HB0	RAA2214904S04GNP#HBA	RAA2214944GNP#HB0

This notice is to inform you that Millennium Microtech (Shanghai) (MMS), announced cease of Front Side Metallization (FSM) operations, that is currently part of the wafer fabrication process flow. As such, Renesas Electronics Americas Inc. (REA) will begin to use HTKS as alternate FSM facility for FSM of the listed Renesas PQFN (Power Quad Flat No Lead) packaged products.

Reason for Change:

The qualification plan follows JEDEC and other applicable industry standards to confirm there is no impact to form, fit, function or interchangeability of the product. Qualification result is included for reference. Refer Appendix A.

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 devices.

Product Identification:

Product affected by this change is identifiable via Renesas’s internal traceability system.

Qualification status: Completed, see attached

Sample availability: 1/15/2024

Device material declaration: Available upon request

Note :

Sample will be released after Jan 15, 2024 subject to availability.

Due to limited availability of sample, Sample request will subject to Renesas's approval. Please contact local Sales Representative should any clarification be required.

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.*

Questions or requests pertaining to this change notice, including additional data or samples, must be sent to Renesas within 30 days of the publication date.

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 (see attached)

Test Description	Condition	RAA2214914GNP#HBO 39 Lead, 5.0mm x 6.0mm PQFN Package
Moisture Sensitivity Classification	Level 3	N = 66 Acc = 0 L3
Biased Highly Accelerated Stress Test (bHAST) +130°C ; 85% RH	96 hours	N = 293 Acc = 0 L3
Unbiased Highly Accelerated Stress Test (uHAST) +130°C ; 85% RH	96 hours	N=239 Acc = 0 L3
Hot Temperature Stroage (HTS) +150°C	1000 hours	N=217 Acc = 0
Temperature Cycle (TCT) -65°C / +150°C	500 cycles	N=224 Acc = 0 L3
	1000 cycles	N=208 Acc = 0 L3

 Passed Reliability Test
 Qualified by Extension