

Product Change Notice (PCN)

Subject: Alternate RDL Pad Plating used in the listed Renesas WFQFN and TQFN packaged products

Publication Date: 3/8/2023

Effective Date: 9/4/2023

Revision Description:

Initial Release

Description of Change:

Alternate RDL Pad Plating facility of the listed Renesas WFQFN and TQFN packaged products

- *Greatek Electronics Inc., Taiwan R.O.C (Greatek)*

This notice is to inform you that Nepes Corporation announced cease of Redistribution Layer (RDL) Pad Plating operations, that is currently part of the wafer fabrication process flow. As such, Renesas Electronics Americas Inc. (REA) will begin to use Greatek as alternate RDL Pad Plating of the listed Renesas WFQFN (Wettable Flank Quad Flat No Lead) and TQFN (Thin 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 B.

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: Complete, see attached

Sample availability: 6/1/2023

Device material declaration: Available upon request

Note :

Sample will be released after June 01, 2023 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 – Affected Product List

Affected Product List

ISL78233ARZ	ISL78234ARZ-TR5303	ISL78233AARZ	ISL78234AARZ-T
ISL78233ARZ-T	ISL78234ARZ-TR5492	ISL78233AARZ-T	ISL78234AARZ
ISL78233ARZ-T7A	ISL78235ARZ	ISL78233AARZ-T7A	< Blank >
ISL78233ARZ-TR5303	ISL78235ARZ-T	ISL78235AARZ-TR5303	< Blank >
ISL78233ARZ-TR5787	ISL78235ARZ-T7A	ISL78235AARZ-T7A	< Blank >
ISL78234ARZ	ISL78235ARZ-TR5492	ISL78235AARZ-T	< Blank >
ISL78234ARZ-T	ISL78235ARZ-TR5668	ISL78235AARZ	< Blank >
ISL78234ARZ-T7A	ISL78235ARZR5492	ISL78234AARZ-T7A	< Blank >

Appendix B – Qualification Results (see attached)

Test Description	Condition	ISL8023IRTAJZ-TS2705 16 Leads, TQFN Package	ISL8018IRAJZ-T 20 Leads, QFN Package
Moisture Sensitivity Level	Level 3	N=66 Acc = 0 L3 Pb-Free	N=66 Acc = 0 L3 Pb-Free
Hot Temperature Operating Life (HTOL) +125°C	1000 hrs	N=80 Acc = 0 Pb-Free	N=80 Acc = 0 Pb-Free
Biased Highly Accelerated Stress Test (bHAST) +130°C ; 85% RH	96 hours	N=234 Acc = 0 L3 Pb-Free	N=234 Acc = 0 L3 Pb-Free
Unbiased Highly Accelerated Stress Test (uHAST) +130°C ; 85% RH	96 hours	N=240 Acc = 0 L3 Pb-Free	N=240 Acc = 0 L3 Pb-Free
Temperature Cycle (TCT) -65°C / +150°C	500 cycles	N=240 Acc = 0 L3 Pb-Free	N=240 Acc = 0 L3 Pb-Free
Hot Temperature Storage (HTS) +150°C	1000 hours	N=239 Acc = 0 Pb-Free	N=239 Acc = 0 Pb-Free

 Pass Qualification