

## Product Change Notice (PCN)

**Subject:** Alternate assembly facility of the listed Renesas nSOIC packaged products

**Publication Date:** 08/29/2022

**Effective Date:** 11/27/2022

### Revision Description:

Initial Release

### Description of Change:

Alternate assembly facility of the listed Renesas 14 Leads nSOIC packaged products

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

### Affected Product

|               |
|---------------|
| EL5420CSZ     |
| EL5420CSZ-T7  |
| EL5420CSZ-T13 |

This is to inform you that Renesas Electronics will begin to use Greatek as alternate assembly facility of 14 Leads narrow Small Outline Integrated Circuit (nSOIC) products.

### Reason for Change:

Adding assembly site will expand current capabilities and capacities to optimize Renesas's ability to meet customer's delivery requirements. Greatek is ISO9001:2015 and IATF 16949:2016 certified. Greatek is existing assembly supplier for high volume assembly of nSOIC packaged products.

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

The assembly qualification plan is designed using JEDEC and other applicable industry standards to confirm there is no impact to form, fit, function or interchangeability of the product. The remainder of the manufacturing operations (wafer fabrication, package level electrical test, etc) will continue to be processed to previously established manufacturing flow.

### Product Identification:

Product affected by this change is identifiable via Renesas's internal traceability system. In addition, product assembled at Greatek may also be identified by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at

| # | Assembly Site | Site Code | Remarks                |
|---|---------------|-----------|------------------------|
| 1 | Greatek       | Z         | For Gold Wire products |

**Qualification status:** Completed

**Sample availability:** 10/14/2022

**Device material declaration:** Available upon request

**Disclaimer for sample orders :**

Samples will be available from Oct 14, 2022 onwards subject to availability. Customers may expect 1 – 2 months for sample delivery. If interested, contact Renesas Sales to determine if samples are available for your product of interest.

**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: <a href="mailto:PCN-US@RENESAS.COM">PCN-US@RENESAS.COM</a>                                      | Europe: <a href="mailto:PCN-EU@RENESAS.COM">PCN-EU@RENESAS.COM</a> | Japan: <a href="mailto:PCN-JP@RENESAS.COM">PCN-JP@RENESAS.COM</a> | Asia Pac: <a href="mailto:PCN-APAC@RENESAS.COM">PCN-APAC@RENESAS.COM</a> |

## Appendix A : Reliability Test Result

| Test Description                                                   | Condition  | EL4583AISZ<br>16 Leads,<br>150mil nSOIC Package | ISL28430CBZ<br>14 Leads,<br>150mil nSOIC Package |
|--------------------------------------------------------------------|------------|-------------------------------------------------|--------------------------------------------------|
| Moisture Sensitivity Level                                         | Level 2    | N=666<br>Acc = 0<br>L2 Pb-Free                  | N=666<br>Acc = 0<br>L2 Pb-Free                   |
| Unbiased Highly Accelerated Stress Test (uHAST)<br>+130°C ; 85% RH | 96 hours   | N=78<br>Acc = 0<br>L3 Pb-Free                   | N=78<br>Acc = 0<br>L2 Pb-Free                    |
| Temperature Cycle (TCT)<br>-65°C / +150°C                          | 500 cycles | N=78<br>Acc = 0<br>L3 Pb-Free                   | N=78<br>Acc = 0<br>L2 Pb-Free                    |
| Hot Temperature Storage (HTS)<br>+150°C                            | 1000 hours | N=78<br>Acc = 0<br>Pb-Free                      | N=78<br>Acc = 0<br>Pb-Free                       |

 Pass Qualification