

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: PCN-US@RENESAS.COM	Europe: PCN-EU@RENESAS.COM	Japan: PCN-JP@RENESAS.COM	Asia Pac: PCN-APAC@RENESAS.COM

Appendix A : Reliability Test Result

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

 Pass Qualification