

## Initial Product Change Notice (PCN)

**Subject:** Alternate manufacturing facility of the listed Renesas WLCSP products

**Publication Date:** 1/25/2021

**Effective Date:** 4/24/2021

**Revision Description:**

Initial Release

**Description of Change:**

Alternate manufacturing facility of the listed Renesas WLCSP products.

<b>Alternate assembly site</b>	Advance Semiconductor Engineering (ASECL) – Chung-Li, Taiwan
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**Affected Product List**

ISL91107IIAZ-T	ISL91107IINZ-TR5654
ISL91107IIAZ-T7A	ISL91107IINZ-TS2720
ISL91107IIAZ-TR5654	ISL9123IINZ-T
ISL91107IIAZ-TS2720	ISL9123IINZ-TS2780
ISL91107IIAZ-TS2722	ISL9123IICZ-T
ISL91107IINZ-T	ISL9123IICZ-TS2780
ISL91107IINZ-T7A	

**Reason for Change:**

This notice is to inform you that Renesas will begin using Advance Semiconductor Engineering (ASEL) facility as alternate assembly site of the listed Renesas WLCSP (Wafer Level Chip Scale Package) product.

ASECL is existing supplier for Renesas. This action will expand current capabilities and capacities to optimize Renesas’s ability to meet customer’s delivery requirements. The ASECL facility is ISO9001:2015 and IATF 16949:2016 certified. ASECL is qualified as primary supplier to Renesas for high volume manufacturing of WLCSP packaged products.

**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

**Sample availability:** 3/1/2021

**Device material declaration:** Available upon request

Sample is available March 01 onwards, and subject to availability. Customer may expect 1 – 2 months for sample replenishment.

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

**Appendix A :**

Test Description	Condition	ISL91107IINZ 15 Balls, WLCSP Package, 0.4mm Pitch	ISL91305IIZ-T 35 Balls, WLCSP Package, 0.4mm Pitch
Early Life Failure Rate +125C	48 hours	N=461 Acc=0	
	65 hours	N=287 Acc=0	
	72 hours	N=475 Acc=0	
High Temperature Operating Life (HTOL) +125C	168 hours		N=314 Acc=0
	192 hours		N=80 Acc=0
	1000 hours	N=80 Acc=0	N=80 Acc=0
	3000 hours		N=80 Acc=0
Biased HAST (b-HAST) +130C / 85%	96 hours	N=120 Acc=0	N=80 Acc=0
Biased HAST (b-HAST) +110C, 85%RH	264 hours		N=79 Acc=0
Hot Temperature Storage (HTS) +150C	1000 hours	N=100 Acc=0	N=590 Acc=0
	2000 hours		N=404 Acc=0
Unbiased HAST (b-HAST) +130C / 85%	96 hours	N=100 Acc=0	
Temperature Cycling Test (TCT) -40C / +125C	850 cycles	N=79 Acc=0	
	1000 cycles		