

## Initial Product Change Notice (PCN)

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

**Publication Date:** 1/22/2021

**Effective Date:** 4/19/2021

**Revision Description:**

Initial Release

**Description of Change:**

Alternate assembly facility of the listed Renesas 16 Leads and 28 Leads TSSOP packaged products

- *Amkor Technology Philippines, Inc., Philippines (ATP)*

**Affected Product List**

ISL6144IVZA	ISL6740AIVZA-TR5508	ICL3243ECVZ
ISL6144IVZA-T	ISL6740IVZ	ICL3243ECVZ-T
ISL6144IVZA-T7A	ISL6740IVZ-T	ICL3243EIVZ
ISL6721AAVZ	ISL6741IVZ	ICL3243EIVZ-T
ISL6721AAVZ-T	ISL6741IVZ-T	ICL3243EIVZ-T7A
ISL6721AVZ	ISL84051IVZ	
ISL6721AVZ-T	ISL84051IVZ-T	
ISL6740AIVZA	ISL84581IVZ	
ISL6740AIVZA-T	ISL84581IVZ-T	

**Reason for Change:**

This notice is to inform you that Renesas Electronics America, Inc. will begin using ATP facility as alternate assembly facility of the Listed Renesas TSSOP (Thin Shrink Small Outline Package) products. ATP is an existing assembly supplier for Renesas. This action will expand current capability and capacity to optimize Renesas’s ability to meet customer’s delivery requirements. The ATP facility is ISO9001:2015 and IATF16949:2016 certified. ATP is qualified as primary supplier to Renesas for high volume assembly of TSSOP packaged product.

**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. A summary of the qualification plan and results is included for reference. Please refer Appendix A. 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 ATP 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
1	ATP	L

**Qualification status:** Completed

**Sample availability:** 4/1/2021

**Device material declaration:** Available upon request

Sample is available April 01, 2021 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.

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 Plan

Test Description	Condition	HIP6004ECVZ 20 Lead, 6.50mm x 4.40mm TSSOP Package	ICL3222EIVZ 20 Lead, 6.50mm x 4.40mm TSSOP Package	ICL3232CVZ 16 Lead, 5.00mm x 4.40mm TSSOP Package
Moisture Sensitivity Classification	Level 1			N = 44 Acc = 0 L1 Pb Free
Moisture Sensitivity Classification	Level 3	N = 44 Acc = 0 L3 Pb Free	N = 44 Acc = 0 L3 Pb Free	
Unbiased Highly Accelerated Stress Test (uHAST) +130°C ; 85% RH	96 hours	N=233 Acc = 0 L3 Pb-Free	N=240 Acc = 0 L3 Pb-Free	N=240 Acc = 0 L1 Pb-Free
Hot Temperature Stroage (HTS) +150°C	500 hours	N=225 Acc = 0	N=240 Acc = 0	N=237 Acc = 0
	1000 hours	N=225 Acc = 0	N=240 Acc = 0	N=237 Acc = 0
Temperature Cycle (TCT) -65°C / +150 °C	500 cycles	N=236 Acc = 0 L3 Pb-Free	N=240 Acc = 0 L3 Pb-Free	N=240 Acc = 0 L1 Pb-Free

 PASS  
 Not Applicable (NA)