

Product Change Notice (PCN)

Subject: Alternate assembly facility of the listed Renesas PQFN 5mm x 6mm packaged products

Publication Date: 12/19/2022

Effective Date: 3/19/2023

Revision Description:

Initial Release

Description of Change:

Alternate assembly facility of the listed Renesas PQFN 5mm x 6mm packaged products

- Carsem (M) Sdn. Bhd. (S-Site), Ipoh, Malaysia (CAS)

List of changes :

- Adding CAS as alternate assembly site

This notice is to inform you that Renesas Electronics Americas will begin to use CAS as alternate assembly facility of Power Quad Flat No Lead (PQFN) product.

Reason for Change:

Adding assembly site will expand current capabilities and capacities to optimize Renesas’s ability to meet customer’s delivery requirements. CAS is ISO9001:2015 and IATF 16949:2016 certified.

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 CAS 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	CAS	F

Qualification status: Completed

Sample availability: 2/25/2023

Device material declaration: Available upon request

Disclaimer :

Due to the limited shelf life and availability of raw materials and capacity, sample are built upon customer's request. Customers shall expect 1 - 2 months for sample delivery. If interested, please contact Renesas Sales to determine if samples are available for your product of interest.

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 : Product List

Affected Product List

ISL99380BFRZ-TR5935	ISL99390FRZ-TR5935	ISL99392BFRZ-TR5935
ISL99380FRZ-TR5935	ISL99390FRZ-TR5948	ISL99392FRZ-TR5935
ISL99380FRZ-TR5953	ISL99390FRZ-TR5953	RAA2201054GNP#HBO
ISL99380HRZ-TR5935	ISL99390FRZ-TR5992	RAA2201054GNP#HB1
ISL99390BFRZ-TR5935	ISL99390HRZ-TR5935	

Appendix B : Qualification Result

Test Description	Condition	ISL99380FRZ-TR5935 39 Lead, 5mm x 6mm PQFN Package	ISL99390FRZ-TR5935 39 Lead, 5mm x 6mm PQFN Package
Moisture Sensitivity Classification	Level 3	N = 66 Acc = 0 L3 Pb Free	N = 66 Acc = 0 L3 Pb Free
Hot Temperature Operating Life (HTOL) +125°C	1000 hours	N = 80 Acc = 0	N = 160 Acc = 0
Temperature Humidity Bias (THB) +85°C ; 85% RH	1000 hours	N=176 Acc = 0 L3 Pb-Free	N=83 Acc = 0 L3 Pb-Free
Unbiased Highly Accelerated Stress Test (uHAST) +130°C ; 85% RH	96 hours	N=160 Acc = 0 L3 Pb-Free	N=240 Acc = 0 L3 Pb-Free
Hot Temperature Storage (HTS) +150°C	1000 hours	N=80 Acc = 0	N=228 Acc = 0
Temperature Cycle (TCT) -65°C / +150 °C	500 cycles	N=239 Acc = 0 L3 Pb-Free	
Temperature Cycle (TCT) -40°C / +125 °C	1000 cycles		N=240 Acc = 0 L3 Pb-Free

 Pass
 Not Applicable (NA)