

Product Change Notice (PCN)

Subject: Alternate bond wire material and assembly facility of the listed Renesas QFN packaged products

Publication Date:

Initial PCN : 11/2/2020

Final PCN : 05/21/2021

Effective Date: 8/18/2021

Revision Description:

Initial Release

Revision A : Changes are in RED font.

1. Include Final PCN publication date a
2. Update PCN Effective Date from 07/31/2021 to 08/15/2021
3. Clarification of Final PCN and MSL change after roll out of Copper wire bonding.
4. Update assembly site code for Copper wire assembled at UTL
5. Qualification status has changed from "In Progress" to "Completed"
6. Include disclaimer for sample orders.
7. Update sample availability date 07/05/2021
8. Update affected product list.
9. Update PCN20029 with Reliability Test Result (Appendix B)

Description of Change:

Alternate bond wire material and assembly facility of the listed Renesas QFN packaged products

- *UTAC Thai Ltd., Bangkok, Thailand (UTL)*

List of changes :

- Table 1 – Adding UTL as alternate assembly site, Wire material change from Gold to Copper and Standardize Moisture Sensitivity Level to MSL3.
- Table 2 - Adding UTL as alternate assembly site.

This notice is an update to PCN20029 (which was published on Nov 02,2020). Renesas Electronics America (REA) will begin to use UTL as alternate assembly of the listed Renesas DFN, QFN, TDFN, TQFN package products.

Reason for Change:

The assembly capacity worldwide is in highly competitive space. In order to secure the capacity ahead, Renesas has qualified the key package families to add alternate sources. These places will be utilized only if there is a shortfall in the supply. Adding UTL as alternate assembly site will expand current capabilities and capacities to optimize Renesas's ability to meet customer's delivery requirements. UTL facility is ISO9001:2015 and IATF 16949:2016 certified. UTL is existing assembly supplier for high volume assembly of QFN packaged products with both gold and copper bond wire material.

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.

There might be a change to the Moisture Sensitivity Level (MSL) for products assembled with Copper bond wire. As such, the affected devices will be packed, labeled and shipped according to its MSL classification upon implementation of the changes outlined in the PCN.

Product Identification:

Product affected by this change is identifiable via Renesas's internal traceability system. In addition, product assembled at UTL 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	UTL	T	For Copper wire products

Qualification status: Completed

Sample availability: 7/7/2021

Device material declaration: Available upon request

Disclaimer for sample orders :

Due to the limited shelf life and availability of raw materials and capacity, we will not be able to offer samples for some of the products and some customers affected by the notice. For those products which we can accommodate sampling, samples will be available from July 07, 2021 onwards subject to availability. Customers can expect 1 – 2 months for sample delivery. If interested, contact Renesas Sales to determine if samples are available for your product of interest. Customer to which we cannot offer samples will be able to continue to receive our products with the current production flow.

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 : Affected Products

Table 1 – Adding UTL as alternate assembly site, Wire material change from Gold to Copper and Standardization of Moisture Sensitivity Level.

Affected Product List

ISL6263ACRZ	ISL9000AIRFCZ-T	ISL6549CRZ-T	ISL97635AIRZ-T	ISL28022FRZ
ISL6263ACRZ-T	ISL9000AIRFCZ	ISL6549CRZ	ISL97635AIRZ	ISL28022FRZ-T
ISL6265CHRTZ-T	ISL9000AIRCJZ-T	ISL6312AIRZ-TS2568	ISL9307IRTAANFZR5613	ISL28022FRZ-T7A
ISL6265CHRTZ	ISL9000AIRCJZ	ISL6312AIRZ-T	ISL9204IRZ-T	ISL6341CRZ-TR5326
ISL9005AIRNZ-T	ISL9000AIRCCZ-T	ISL6312AIRZ	ISL9120IRTNZ-T	ISL62883IRTZ-T
ISL9005AIRKZ-T	ISL9000AIRCCZ	ISL6312ACRZ-TS2709	ISL9120IRTNZ	ISL62883IRTZ
ISL9005AIRJZ-T	ISL6341CRZ-T	ISL6312ACRZ-T	ISL9120IRTAZ-T7A	ISL62883HRTZ-TS2705
ISL9005AIRFZ-T	ISL6341CRZ	ISL6312ACRZ	ISL9120IRTAZ-T	ISL62381HRTZ
ISL9005AIRCZ-T	ISL9219IRZ-T	ISL6310IRZ	ISL9120IRTAZ	ISL62381HRTZ-T
ISL9005AIRBZ-T	ISL9219IRZ	ISL6310CRZ-T	ISL9110IRTNZ-T7A	ISL62382HRTZ
ISL9001AIRNZ-T	ISL9205IRZ-T	ISL6310CRZ	ISL9110IRTNZ-T	ISL62382HRTZ-T
ISL9001AIRKZ-T	ISL9205IRZ	ISL6269BIRZ-T	ISL9110IRTNZ	ISL62386HRTZ
ISL9001AIRJZ-T	ISL28023FR12Z	ISL6269BIRZ	ISL9110BIRTAZ-TS2765	ISL62386HRTZ-T
ISL9001AIRFZ-T	ISL28023FR12Z-T	ISL6269BCRZ-TS2568	ISL33001IRT2Z	ISL62883HRTZ-T
ISL9001AIRCZ-T	ISL28023FR12Z-T7A	ISL6269BCRZ-T	ISL33001IRT2Z-T	ISL62883HRTZ
ISL9001AIRBZ-T	ISL28023FR60Z	ISL6269BCRZ	ISL33001IRT2Z-TS2705	ISL62882HRTZR5390
ISL9000AIRNNZ	ISL28023FR60Z-T	ISL6269ACRZ-TS2568	ISL33002IRT2Z	ISL62882HRTZ-TR5390
ISL9000AIRNJZ	ISL28023FR60Z-T7A	ISL6269ACRZ-T	ISL33002IRT2Z-T	ISL62882HRTZ-T
ISL9000AIRNFZ	ISL28025FR12Z	ISL6269ACRZ	ISL33003IRT2Z	ISL62882HRTZ
ISL9000AIRMNZ-T	ISL28025FR12Z-T	ISL6262CRZ	ISL33003IRT2Z-T	ISL6265CIRTZ-T
ISL9000AIRMNZ	ISL28025FR12Z-T7A	ISL6262CRZ-T	ISL6617IRZ-T	ISL6265CIRTZ
ISL9000AIRMGZ-T	ISL28025FR12Z-TS2490	ISL6262CRZ-TK	ISL6617IRZ	
ISL9000AIRMGZ	ISL9205DIRZ-T	ISL6262CRZ-TS2568	ISL6298CR4Z-T	
ISL9000AIRKKZ	ISL9205DIRZ	ISL6262IRZ	ISL6298CR4Z	
ISL9000AIRKJZ	ISL9205CIRZ-T	ISL6262IRZ-T	ISL6298-2CR4Z-T	
ISL9000AIRKFZ	ISL9205CIRZ	ISL97656IRTZ-TS2722	ISL6298-2CR4Z	
ISL9000AIRKCZ	ISL9205BIRZ-T	ISL97656IRTZ-TK	ISL6292BCRZ-TS2767	
ISL9000AIRJNZ-T	ISL9205BIRZ	ISL97656IRTZ-T	ISL6292BCRZ-T	
ISL9000AIRJNZ	ISL9205AIRZ-T	ISL97656IRTZ	ISL6292BCRZ	
ISL9000AIRJBZ	ISL9205AIRZ	ISL97636AIRZ-TK	ISL6292-2CR4Z-T	
ISL9000AIRFJZ	ISL6611AIRZ-T	ISL97636AIRZ-T	ISL6292-2CR4Z	
ISL9000AIRFDZ-T	ISL6132IRZA-TR5585	ISL97636AIRZ	ISL6292-2CR3Z-T	
ISL9000AIRFDZ	ISL6611AIRZ	ISL97635AIRZ-TK	ISL6292-2CR3Z	

Table 2 – Adding UTL as alternate assembly site

Affected Product List

ISL1533AIRZ	ISL6277IRZ	ISL6605IRZ-T	ISL95869IRTZ-T	ISL9305IRTWCNYZ-T
ISL1533AIRZ-T13	ISL6277IRZ-T	ISL6609ACRZ	ISL95869IRTZ	ISL9305IRTWLNCZ-T
ISL15102AIRZ	ISL62881HRTZ	ISL6609ACRZ-T	ISL95869HRTZ-TS2778	ISL9307IRTAABZ-T
ISL15102AIRZ-T13	ISL62881HRTZ-T	ISL6609IRZ	ISL95869HRTZ-T	ISL9307IRTAABZ-T7A
ISL15102IRZ	ISL97682IRTZ-TR5509	ISL6609IRZ-T	ISL95869HRTZ	ISL9307IRTAJFZ-T
ISL15102IRZ-T13	ISL97682IRTZ-TK	ISL97634IRT18Z-T	ISL95866IRZ-T	ISL9307IRTAJFZ-T7A
ISL95820CRTZ	ISL97682IRTZ-T	ISL97634IRT14Z-TK	ISL95866IRZ	ISL9307IRTAJGZ-T
ISL95820CRTZ-T	ISL97682IRTZ	ISL6613BCRZ	ISL95866CIRZ-T	ISL9307IRTAJGZ-T7A
ISL95820IRTZ	ISL62883BHRTZ	ISL6613BCRZ-T	ISL95866CIRZ	ISL9307IRTAJLZ-T
ISL95820IRTZ-T	ISL62883BHRTZ-T	ISL6615AIRZ	ISL95866CHRZ-T	ISL9307IRTAJLZ-T7A
HIP2103FRTAAZ	ISL97678IRZ-TK	ISL6615AIRZ-T	ISL95866CHRZ	ISL9307IRTAJYZ-T
HIP2103FRTAAZ-T	ISL97678IRZ-T	ISL6615AIRZ-TS2705	ISL95861IRTZ-T	ISL9307IRTAJYZ-T7A
HIP2103FRTAAZ-T7A	ISL97678IRZ	ISL6615IRZ	ISL95861IRTZ	ISL9307IRTAANCZ-T
HIP2103FRTAAZ-TS2788	ISL97673IRZ-TK	ISL6615IRZ-T	ISL95861HRTZ-TS2778	ISL9307IRTAANCZ-T7A
HIP2104FRAANZ	ISL97673IRZ-T	ISL6617CRZ	ISL95861HRTZ-T	ISL9307IRTAANFZ-T
HIP2104FRAANZ-T	ISL6292-1CR3Z	ISL6617CRZ-T	ISL95861HRTZ	ISL9307IRTAANFZ-T7A
HIP2104FRAANZ-T7A	ISL6292-1CR3Z-T	ISL97634IRT14Z-T	ISL95860IRTZ-T	ISL95856IRZ-T
HIP2106AIRZ	ISL6292-1CR4Z	ISL95880IRTZ-T	ISL95860IRTZ	ISL9307IRTAANGZ-T
HIP2106AIRZ-T	ISL6292-1CR4Z-T	ISL6622AIRZ-T	ISL95860HRTZ-TS2778	ISL9307IRTAANGZ-T7A
RAA489000AS03GNP#HA0	ISL6292-1CR5Z	ISL6622AIRZ-TS2705	ISL95860HRTZ-TS2701	ISL9307IRTAANLZ-T
RAA489000ARGNP#HA0	ISL6292-1CR5Z-T	ISL68200IRZ	ISL95860HRTZ-T	ISL9307IRTAANLZ-T7A
RAA489000ARGNP#AA0	ISL97673IRZ	ISL68200IRZ-T	ISL95860HRTZ	ISL9307IRTAANWZ-T
RAA489000A3GNP#HA0	ISL97672BIRZ-T	ISL68200IRZ-T7A	ISL95859IRTZ-T	ISL9307IRTAANWZ-T7A
RAA489000A3GNP#AA0	ISL97672BIRZ	ISL68200IRZ-TK	ISL95859IRTZ	ISL9307IRTAANYZ-T
RAA2261104GNP#MA0	ISL97672AIRZ-TK	ISL68201IRZ	ISL95859HRTZ-TR5694	ISL9307IRTAANYZ-T7A
RAA2261104GNP#HA0	ISL6292-2CR5Z	ISL68201IRZ-T	ISL95859HRTZ-T	ISL9307IRTWCNJZ-T
RAA2261104GNP#AA0	ISL6292-2CR5Z-T	ISL68201IRZ-T7A	ISL95859CIRTZ-T	ISL9307IRTWCNJZ-T7A
RAA2260544S02GNP#HA0	ISL97672AIRZ-T	ISL68201IRZ-TK	ISL95859CIRTZ	ISL9307IRTWCNWZ-T
RAA2260544GNP#HA0	ISL97672AIRZ	ISL6840IRZ-T	ISL95859CHRTZ-TS2778	ISL9307IRTWCNWZ-T7A
RAA220002GNP#HA0	ISL97671AIRZ-TK	ISL80015AFRZ-T	ISL95859CHRTZ-TS2701	ISL9440AIRZ
RAA220001GNP#HA0	ISL6298-2CR3Z	ISL80015AFRZ-T7A	ISL95859CHRTZ-T	ISL9440AIRZ-T
RAA2124224GNP#MA0	ISL6298-2CR3Z-T	ISL80015AIRZ-T	ISL9011AIRCCZ	ISL9440AIRZ-TS2490
ISL3159EFRZ	ISL97671AIRZ-T	ISL80015AIRZ-T7A	ISL9011AIRCCZ-T	ISL9440AIRZ-TS2718
ISL3159EFRZ-T	ISL97671AIRZ	ISL80015FRZ-T	ISL9011AIRCJZ	ISL9440AIRZ-TS2719
ISL3159EFRZ-T7A	ISL97656IRTZ-TS2720	ISL80015FRZ-T7A	ISL9011AIRCJZ-T	ISL9440AIRZS2718
ISL3159EIRZ	ISL97649AIRZ-TR5566	ISL80015IRZ-T	ISL9011AIRFCZ	ISL9440BIRZ
ISL3159EIRZ-T	ISL6306CRZ	ISL80015IRZ-T7A	ISL9011AIRFCZ-T	ISL9440BIRZ-T
ISL3159EIRZ-T7A	ISL6306CRZ-T	ISL80019AFRZ-T	ISL9011AIRFDZ	ISL9440IRZ

ISL3179EFRZ	ISL6306CRZ-TK	ISL80019AFRZ-T7A	ISL9011AIRFDZ-T	ISL9440IRZ-T
ISL3179EFRZ-T	ISL6306CRZ-TS2701	ISL80019AIRZ-T	ISL9011AIRFJZ	ISL9491ERZ
ISL3179EFRZ-T7A	ISL6306IRZ-TKR5632	ISL80019AIRZ-T7A	ISL9011AIRFJZ-T	ISL9491ERZ-T
ISL3179EIRZ	ISL6308ACRZ	ISL80019IRZ-T	ISL9011AIRJBZ	ISL95338HRTZ
ISL3179EIRZ-T	ISL6308ACRZ-T	ISL80019IRZ-T7A	ISL9011AIRJBZ-T	ISL95338HRTZ-T
ISL3179EIRZ-T7A	ISL6308CRZ	ISL80020AFRZ-T	ISL9011AIRJNZ	ISL95338HRTZ-T7A
ISL32177EFRZ	ISL6308CRZ-T	ISL80020AFRZ-T7A	ISL9011AIRJNZ-T	ISL95338HRTZ-TK
ISL32177EFRZ-T	ISL6308CRZ-TR5372	ISL80020AIRZ-T	ISL9011AIRKCZ	ISL95338HRTZ-TS2778
ISL32177EIRZ	ISL6308CRZ-TS2568	ISL80020AIRZ-T7A	ISL9011AIRKCZ-T	ISL95338IRTZ
ISL32177EIRZ-T	ISL97645AIRZ-TK	ISL80020FRZ-T	ISL9011AIRKFZ	ISL95338IRTZ-T
ISL32179EFRZ	ISL97645AIRZ-T	ISL80020FRZ-T7A	ISL9011AIRKFZ-T	ISL95338IRTZ-TK
ISL32179EFRZ-T	ISL97645AIRZ	ISL80020IRZ-T	ISL9011AIRKJZ	ISL9538BHRTZ
ISL32179EIRZ	ISL97636IRZ-TK	ISL80020IRZ-T7A	ISL9011AIRKJZ-T	ISL9538BHRTZ-T
ISL32179EIRZ-T	ISL97636IRZ-T	ISL8002AFRZ-T	ISL9011AIRKKZ	ISL9538BHRTZ-TS2701
ISL32277EIRZ	ISL6312ACRZ-TS2568	ISL8002AFRZ-T13	ISL9011AIRKKZ-T	ISL9538BHRTZ-TS2778
ISL32277EIRZ-T	ISL97636IRZ	ISL8002AFRZ-T7A	ISL9011AIRMZGZ	ISL9538HRTZ
ISL3259EIRZ	ISL97635IRZS2038	ISL8002AFRZ-TS2765	ISL9011AIRMZGZ-T	ISL9538HRTZ-T
ISL3259EIRZ-T	ISL97635IRZ-TKS2038	ISL8002AIRZ-T	ISL9011AIRMNZ	ISL9538HRTZ-TK
ISL3282EFRTZ-T	ISL97635IRZ-TK	ISL8002AIRZ-T13	ISL9011AIRMNZ-T	ISL9538HRTZ-TS2701
ISL3282EIRTZ-T	ISL6312CRZ	ISL8002AIRZ-T7A	ISL9011AIRNFZ	ISL9538HRTZ-TS2778
ISL3298EFRTZ-T	ISL6312CRZ-T	ISL8002AIRZ-TS2765	ISL9011AIRNFZ-T	ISL95520AHRZ
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RAA2124224GNP#AA0	ISL6312CRZ-TR5429	ISL8002BFRZ-T7A	ISL9011AIRNJZ-T	ISL95520HRZ
RAA2124214GNP#MA0	ISL6312CRZ-TS2568	ISL8002BIRZ-T	ISL9011AIRNNZ	ISL95520HRZ-T
ISL33001IRTZ	ISL6313BCRZ	ISL8002BIRZ-T7A	ISL9011AIRNNZ-T	ISL95520HRZ-TS2568
ISL33001IRTZ-T	ISL6313BCRZ-T	ISL8002FRZ-T	ISL9012IRCCZ	ISL95520HRZ-TS2722
RAA2124214GNP#HA0	ISL6313BCRZ-TS2705	ISL8002FRZ-T7A	ISL9012IRCCZ-T	ISL95521AHRZ
RAA2124214GNP#AA0	ISL6313CRZ	ISL8002IRZ-T	ISL9012IRCJZ	ISL95521AHRZ-T
ISL33002IRTZ	ISL6313CRZ-T	ISL8002IRZ-T7A	ISL9012IRCJZ-T	ISL95521AHRZ-TS2778
ISL33002IRTZ-T	ISL6313CRZ-TS2705	ISL8002IRZ-TS2748	ISL9012IRFCZ	ISL95521AIRZ
ISL99201IRTDZ-TK	ISL6327ACRZ	ISL80030AFRZ-T	ISL9012IRFCZ-T	ISL95521AIRZ-T
ISL99201IRTDZ-T	ISL6327ACRZ-T	ISL80030AFRZ-T7A	ISL9012IRFDZ	ISL95521BHRZ
ISL33003IRTZ	ISL6327CRZ	ISL80030FRZ-T	ISL9012IRFDZ-T	ISL95521BHRZ-T
ISL33003IRTZ-T	ISL6327CRZ-T	ISL80030FRZ-T7A	ISL9012IRJNZ	ISL95521BHRZ-TS2778
ISL3331IRZ	ISL6327CRZ-TS2705	ISL80031AFRZ-T	ISL9012IRJNZ-T	ISL95521BIRZ
ISL3331IRZ-T	ISL6327IRZ	ISL80031AFRZ-T7A	ISL9012IRMGZ	ISL95521BIRZ-T
ISL33337EIRZ	ISL6327IRZ-T	ISL80031FRZ-T	ISL9012IRMGZ-T	ISL95521HRZ
ISL33337EIRZ-T	ISL6333ACRZ	ISL80031FRZ-T7A	ISL9012IRMNZ	ISL95521HRZ-T
ISL33337EIRZ-T7A	ISL6333ACRZ-T	ISL80102IRAIZ	ISL9012IRMNZ-T	ISL95522AHRZ
ISL3333IRZ	ISL6333ACRZ-TS2568	ISL80102IRAIZ-T	ISL9012IRNNZ	ISL95522AHRZ-T
ISL3333IRZ-T	ISL6333ACRZ-TS2705	ISL80102IRAIZ-T7A	ISL9012IRNNZ-T	ISL95522AHRZ-TS2778

ISL3333IRZ-T7A	ISL6333BCRZ	ISL80102IRAJZ-TK	ISL9014AIRCCZ	ISL95522AIRZ
ISL33357EIRZ	ISL6333BCRZ-T	ISL80103IRAJZ	ISL9014AIRCCZ-T	ISL95522AIRZ-T
ISL33357EIRZ-T	ISL6333CCRZ	ISL80103IRAJZ-T	ISL9014AIRCJZ	ISL95522HRZ
ISL33357EIRZ-T7A	ISL6333IRZ	ISL80103IRAJZ-T7A	ISL9014AIRCJZ-T	ISL95522HRZ-T
ISL41334IRZ	ISL6333IRZ-T	ISL80103IRAJZ-TK	ISL9014AIRFCZ	ISL95522HRZ-TS2778
ISL41334IRZ-T	ISL6334ACRZ	ISL80103IRAJZ-TS2722	ISL9014AIRFCZ-T	ISL95522IRZ
ISL41334IRZ-T7A	ISL6334ACRZ-T	ISL80103IRAJZTKS2709	ISL9014AIRFDZ	ISL95522IRZ-T
ISL41387IRZ	ISL6334ACRZ-TK	ISL80111IRAJZ	ISL9014AIRFDZ-T	ISL95538BHRTZ
ISL41387IRZ-T	ISL6334ACRZ-TR5586	ISL80111IRAJZ-T	ISL9014AIRFJZ	ISL95538BHRTZ-T
ISL99201IRTCZ-TK	ISL6334ACRZ-TS2568	ISL80111IRAJZ-T7A	ISL9014AIRFJZ-T	ISL95538BHRTZ-TK
ISL99201IRTCZ-T	ISL6334ACRZR5586	ISL80112IRAJZ	ISL9014AIRJBZ	ISL95538BIRTZ
ISL99201IRTBZ-TK	ISL6334CRZ	ISL80112IRAJZ-T	ISL9014AIRJBZ-T	ISL95538BIRTZ-T
ISL99201IRTBZ-T	ISL6334CRZ-T	ISL80112IRAJZ-T7A	ISL9014AIRJNZ	ISL95538BIRTZ-TK
ISL99201IRTAZ-TK	ISL6334CRZ-TS2568	ISL80113IRAJZ	ISL9014AIRJNZ-T	ISL95538HRTZ
ISL99201IRTAZ-T	ISL6334CRZ-TS2701	ISL80113IRAJZ-T	ISL9014AIRKCZ	ISL95538HRTZ-T
ISL97901CRZ-TK	ISL6334DCRZ	ISL80113IRAJZ-T7A	ISL9014AIRKCZ-T	ISL95712HRZ
ISL97901CRZ-T7A	ISL6334DCRZ-T	ISL80111IRZ	ISL9014AIRKFZ	ISL95712HRZ-T
ISL97901CRZ-T	ISL6334IRZ	ISL80111IRZ-T	ISL9014AIRKFZ-T	ISL95712IRZ
ISL97901CRZ	ISL6334IRZ-T	ISL80121IR50Z	ISL9014AIRKJZ	ISL95712IRZ-T
ISL97900CRZ-TK	ISL6334IRZ-TS2705	ISL80121IR50Z-T	ISL9014AIRKJZ-T	ISL95812HRZ
ISL97900CRZ-T7A	ISL6336ACRZ	ISL80121IR50Z-T7A	ISL9014AIRKKZ	ISL95812HRZ-T
ISL6123IRZA	ISL6336ACRZ-T	ISL80121IR50Z-TR5830	ISL9014AIRKKZ-T	ISL95812HRZ-TR5650
ISL6123IRZA-T	ISL6336DIRZ	ISL8012IRZ	ISL9014AIRMGZ	ISL95812HRZ-TS2490
ISL6124IRZA	ISL6336DIRZ-T	ISL8012IRZ-T	ISL9014AIRMGZ-T	ISL95812HRZ-TS2705
ISL6124IRZA-TKR5632	ISL6336DIRZ-TS2705	ISL8012IRZ-T7A	ISL9014AIRMNZ	ISL95812IRZ
ISL6128IRZA-TKR5632	ISL6341AIRZ	ISL8012IRZ-TS2568	ISL9014AIRMNZ-T	ISL95812IRZ-T
ISL6132IRZA	ISL6341AIRZ-T	ISL8012IRZ-TS2705	ISL9014AIRNFZ	ISL95813HRZ
ISL6132IRZA-T	ISL6341BCRZ	ISL8033AIRZ	ISL9014AIRNFZ-T	ISL95813HRZ-T
ISL97900CRZ-T	ISL6341BCRZ-T	ISL8033AIRZ-T	ISL9014AIRNJZ	ISL95813HRZ-TR5650
ISL6146CFRZ	ISL6341BCRZ-TR5326	ISL8033AIRZ-TS2568	ISL9014AIRNJZ-T	ISL95813IRZ
ISL6146CFRZ-T	ISL6341BIRZ	ISL8033IRZ	ISL9014AIRNNZ	ISL95813IRZ-T
ISL6146CFRZ-T7A	ISL6341BIRZ-T	ISL8033IRZ-T	ISL9014AIRNNZ-T	ISL95816HRZ
ISL6146CFRZ-TK	ISL6341CIRZ	ISL8033IRZ-T7A	ISL9105IRZ-T	ISL95816HRZ-T
ISL6146DFRZ	ISL6341CIRZ-T	ISL8033IRZ-TR5423	ISL9105IRZ-TS2715	ISL95816HRZ-TS2490
ISL6146DFRZ-T	ISL97635IRZ-T	ISL8033IRZ-TR5432	ISL9105IRZ-TS2719	ISL95816IRZ
ISL6146DFRZ-T7A	ISL97635IRZ	ISL8033IRZR5423	ISL9106IRZ	ISL95816IRZ-T
ISL6146DFRZ-TK	ISL97634IRT26Z-TK	ISL8033IRZR5432	ISL9106IRZ-T	ISL95818HRTZ
ISL6146EFRZ	ISL6341IRZ	ISL8036AIRZ	ISL9106IRZ-TS2708	ISL95818HRTZ-T
ISL6146EFRZ-T	ISL6341IRZ-T	ISL8036AIRZ-T	ISL9107IRZ-T	ISL95818HRTZ-TS2568
ISL6146EFRZ-T7A	ISL6353CRTZ	ISL80505IRAJZ	ISL9108IRZ-T	ISL95818IRTZ
ISL6146EFRZ-TK	ISL6353CRTZ-T	ISL80505IRAJZ-T	ISL9110BIRTAZ	ISL95818IRTZ-T

ISL6173DRZA	ISL6353CRTZ-TK	ISL80505IRAIZ-T7A	ISL9110BIRTAZ-T	ISL95821CRTZ
ISL6173DRZA-T	ISL6353CRTZ-TS2568	ISL80510IRAIZ	ISL95859CHRTZ	ISL95821CRTZ-T
ISL6173DRZA-TS2490	ISL6353IRTZ	ISL80510IRAIZ-T	ISL9110IRT7Z	ISL95822HRZ
ISL6174IRZ	ISL6353IRTZ-T	ISL80510IRAIZ-T7A	ISL9110IRT7Z-T	ISL95822HRZ-T
ISL6174IRZ-T	ISL6353IRTZ-TS2705	ISL8104CRZ	ISL9110IRT7Z-T7A	ISL95822IRZ
ISL6174IRZ-TS2490	ISL6364ACRZ	ISL8104CRZ-T	ISL9110IRTAZ	ISL95822IRZ-T
ISL6218CRZ	ISL6364ACRZ-T	ISL8104IRZ	ISL9110IRTAZ-T	ISL95824HRZ
ISL6218CRZ-T	ISL6364AIRZ	ISL8104IRZ-T	ISL9110IRTAZ-T7A	ISL95824HRZ-T
ISL6218CRZ-TS2568	ISL6364AIRZ-T	ISL8105ACRZ	ISL95859AIRTZ-T	ISL95824IRZ
ISL6227HRZ	ISL6364IRZ	ISL8105ACRZ-T	ISL95859AIRTZ	ISL95824IRZ-T
ISL6227HRZ-T	ISL6364IRZ-T	ISL8105AIRZ	ISL95859AHRTZ-T	ISL95825IRZ
ISL6227IRZ	ISL6367CRZ	ISL8105AIRZ-T	ISL9112IRT7Z	ISL95825IRZ-T
ISL6227IRZ-T	ISL6367CRZ-T	ISL8105IRZ	ISL9112IRT7Z-T	ISL95829AHRTZ
ISL6228IRTZ	ISL6367CRZ-TK	ISL8105IRZ-T	ISL9112IRT7Z-T7A	ISL95829AHRTZ-T
ISL6228IRTZ-T	ISL6367CRZ-TS2490	ISL8106CRZ	ISL9112IRTNZ	ISL95829AIRTZ
ISL6236AIRZ	ISL6367HCRZ	ISL8106CRZ-T	ISL9112IRTNZ-T	ISL95829AIRTZ-T
ISL6236AIRZ-T	ISL6367HCRZ-T	ISL8112IRZ	ISL9112IRTNZ-T7A	ISL95829CHRTZ
ISL97900CRZ	ISL6373CRTZ	ISL8112IRZ-T	ISL95859AHRTZ	ISL95829CHRTZ-T
ISL97694AIRTZ-TS2722	ISL6373CRTZ-T	ISL8115FRTZ	ISL95858IRZ-T	ISL95829CIRTZ
ISL97694AIRTZ-TK	ISL6373IRTZ	ISL8115FRTZ-T	ISL95858IRZ	ISL95829CIRTZ-T
ISL97694AIRTZ-T	ISL6373IRTZ-T	ISL8117AFRZ	ISL95858HRZ-T	ISL95829HRTZ
ISL97694AIRTZ	ISL6374CRTZ	ISL8117AFRZ-T	ISL95858HRZ	ISL95829HRTZ-T
ISL97693IRTZ-TK	ISL6374CRTZ-T	ISL8117AFRZ-T7A	ISL9203ACRZ	ISL95829IRTZ
ISL6251HRZ-T	ISL6374IRTZ	ISL8118CRZ	ISL9203ACRZ-T	ISL95829IRTZ-T
ISL6255AHRZ	ISL6374IRTZ-T	ISL8118CRZ-T	ISL95857IRTZ-T	ISL95833BHRTZ
ISL6255AHRZ-T	ISL6376CRZ	ISL8120CRZ	ISL95857IRTZ	ISL95833BHRTZ-T
ISL6256AHRZ	ISL6376CRZ-T	ISL8120CRZ-T	ISL95857HRTZ-TS2778	ISL95833BHRTZ-TR5672
ISL6256AHRZ-T	ISL6377HRZ	ISL8120IRZ-TR5779	ISL95857HRTZ-TS2722	ISL95833BIRTZ
ISL6256HRZ	ISL6377HRZ-T	ISL8120IRZ-TS2705	ISL95857HRTZ-T	ISL95833BIRTZ-T
ISL6256HRZ-T	ISL6377IRZ	ISL8121IRZ	ISL95857HRTZ	ISL95833HRTZ
ISL6261ACRZ	ISL6377IRZ-T	ISL8121IRZ-T	ISL95857CIRTZ-T	ISL95833HRTZ-T
ISL6261ACRZ-T	ISL6379CRZ	ISL8121IRZ-TS2568	ISL95857CIRTZ	ISL95833HRTZ-TS2490
ISL6261AIRZ	ISL6379CRZ-T	ISL8126CRZ	ISL95857CHRTZ-TS2778	ISL95833HRTZ-TS2568
ISL6261AIRZ-T	ISL6388HRTZ	ISL8126CRZ-T	ISL95857CHRTZ-T	ISL95833IRTZ
ISL6261CRZ	ISL6388HRTZ-T	ISL8126CRZ-T7A	ISL95857CHRTZ	ISL95833IRTZ-T
ISL6261CRZ-T	ISL6388HRTZ-TKR5632	ISL8126IRZ	ISL9209BIRZ	ISL95833IRTZ-TR5671
ISL6262ACRZ	ISL6388HRTZ-TR5714	ISL8126IRZ-T	ISL9209BIRZ-T	ISL95833IRTZ-TS2568
ISL6262ACRZ-T	ISL6388HRTZ-TS2787	ISL8126IRZ-T7A	ISL9209CIRZ	ISL95833IRTZR5671
ISL6262ACRZ-TS2704	ISL6388IRTZ	ISL8126IRZ-TK	ISL9209CIRZ-T	ISL95836HRTZ
ISL97693IRTZ-T	ISL6388IRTZ-T	ISL85001IRZ	ISL95857AIRTZ-T	ISL95836HRTZ-T
ISL97693IRTZ	ISL6388IRTZ-TR5636	ISL85001IRZ-T	ISL95857AIRTZ	ISL95836HRTZ-TR5612

ISL97692IRTZ-TK	ISL6398HRTZ	ISL8500IRZ	ISL9237HRZ	ISL95836HRTZ-TS2568
ISL97692IRTZ-T	ISL6398HRTZ-T	ISL8500IRZ-T	ISL9237HRZ-T	ISL95836IRTZ
ISL97692IRTZ	ISL6398HRTZ-TK	ISL8500IRZ-TS2718	ISL9237HRZ-T7A	ISL95836IRTZ-T
ISL97691IRTZ-TK	ISL6398HRTZ-TKR5632	ISL8500IRZ-TS2719	ISL9237HRZ-TK	ISL95836IRTZ-TS2568
ISL97691IRTZ-T	ISL6398IRTZ	ISL854102FRZ	ISL9237HRZ-TS2568	ISL95838HRTZ-T
ISL97691IRTZ	ISL6398IRTZ-T	ISL854102FRZ-T	ISL9237HRZ-TS2722	ISL95838IRTZ
ISL6263AIRZ	ISL6398IRTZ-TK	ISL854102FRZ-T7A	ISL9237HRZ-TS2780	ISL95853AHRZ
ISL6263AIRZ-T	ISL6398IRTZ-TKR5636	ISL85410AIRZ	ISL9237IRZ-TR5700	ISL95853AHRZ-T
ISL6264CRZ	ISL6398IRTZ-TKS2705	ISL85410AIRZ-T	ISL9237IRZR5700	ISL95853AIRZ-T
ISL6264CRZ-T	ISL6398IRTZ-TR5636	ISL85412FRTZ	ISL9238BHRTZ	ISL95853HRZ
ISL6264CRZ-TS2705	ISL6420BIRZ	ISL85412FRTZ-T	ISL9238BHRTZ-T	ISL95853HRZ-T
ISL97687IRTZ-TS2705	ISL6420BIRZ-T7A	ISL85412FRTZ-T7A	ISL9238BIRTZ	ISL95853HRZ-TK
ISL97687IRTZ-T	ISL6420BIRZ-TK	ISL85418FRZ	ISL9238BIRTZ-T	ISL95853HRZ-TS2568
ISL97687IRTZ	ISL6421AERZ	ISL85418FRZ-T	ISL9238HRTZ	ISL95853IRZ
ISL97686IRTZ-T	ISL6421AERZ-T	ISL85418FRZ-T7A	ISL9238HRTZ-T	ISL95853IRZ-T
ISL6266AIRZ	ISL6422BERZ	ISL88550AIRZ	ISL9238HRTZ-T7A	ISL95853IRZ-TR5722
ISL6266AIRZ-T	ISL6422BERZ-T	ISL88550AIRZ-T	ISL9238HRTZ-TK	ISL95853IRZR5722
ISL97686IRTZ	ISL6423BERZ	ISL88550AIRZ-T7	ISL9238HRTZ-TKS2568	ISL95854HRZ
ISL97684IRTZ-TK	ISL6423BERZ-T	ISL88731AHRZ	ISL9238HRTZ-TR5542	ISL95854HRZ-T
ISL97684IRTZ-T	ISL6423BERZ-TR5488	ISL88731AHRZ-T	ISL9238HRTZ-TS2701	ISL95854HRZ-TK
ISL97684IRTZ	ISL6535IRZ	ISL88731HRZ	ISL9238HRTZ-TS2780	ISL95854HRZ-TR5722
ISL97683IRTZ-TK	ISL6535IRZ-T	ISL88731HRZ-T	ISL9238IRTZ	ISL95854HRZ-TS2568
ISL97683IRTZ-T	ISL6535IRZ-TK	ISL88738HRTZ	ISL9238IRTZ-T	ISL95854HRZ-TS2722
ISL97683IRTZ	ISL6540ACRZ	ISL88738HRTZ-T	ISL9241HRTZ	ISL95854HRZR5722
ISL97682IRTZR5509	ISL6540ACRZ-T	ISL88739AHRZ	ISL9241HRTZ-T	ISL95854IRZ
ISL6271ACRZ	ISL6540ACRZ-TS2490	ISL88739AHRZ-T	ISL9241HRTZ-T7A	ISL95854IRZ-T
ISL6271ACRZ-T	ISL6540AIRZ	ISL88739AHRZ-TS2778	ISL9241HRTZ-TK	ISL95854IRZ-TR5722
ISL6273IRZ	ISL6540AIRZ-T	ISL88739BHRZ	ISL9241HRTZ-TS2701	ISL95854IRZR5722
ISL6273IRZ-T	ISL6540AIRZ-TKR5632	ISL88739BHRZ-T	ISL9241HRTZ-TS2778	ISL95855AHRTZ
ISL62771IRTZ	ISL6540AIRZA	ISL88739HRZ	ISL9241HRTZ-TS2780	ISL95855AHRTZ-T
ISL62771IRTZ-T	ISL6540AIRZA-T	ISL88739HRZ-T	ISL9241IRTZ	ISL95855AHRTZ-TS2722
ISL62773AHRZ	ISL6545ACRZ	ISL88739HRZ-TR5698	ISL9241IRTZ-T	ISL95855AHRTZ-TS2778
ISL62773AHRZ-T	ISL6545ACRZ-T	ISL88739HRZ-TS2778	ISL9241IRTZ-TK	ISL95855AIRTZ
ISL62773AIRZ	ISL6545AIRZ	ISL88750HRZ	ISL9301IRZ	ISL95855AIRTZ-T
ISL62773AIRZ-T	ISL6545AIRZ-T	ISL88750HRZ-T	ISL9301IRZ-T	ISL95855BHRTZ
ISL62773HRZ	ISL6545CRZ	ISL88750HRZ-TR5698	ISL9305IRTAANLZ-T	ISL95855BHRTZ-T
ISL62773HRZ-T	ISL6545CRZ-T	ISL89163FRTBZ	ISL9305IRTB CNLZ-T	ISL95855BIRTZ
ISL62773HRZ-TS2705	ISL97634IRT26Z-T	ISL89163FRTBZ-T	ISL9305IRTBFCNZ-T	ISL95855BIRTZ-T
ISL62773IRZ	ISL97634IRT18Z-TK	ISL89164FRTAZ	ISL9305IRTHAANLZ-T	ISL95855CHRTZ
ISL62773IRZ-T	ISL6567CRZ-T	ISL89164FRTAZ-T	ISL9305IRTHB CNLZ-T	ISL95855CHRTZ-T
ISL62773IRZ-TS2705	ISL6567CRZ-TS2490	ISL89164FRTBZ	ISL9305IRTHBFNCZ-T	ISL95855CIRTZ

ISL62776HRTZ	ISL6567IRZ	ISL89164FRTBZ-T	ISL9305IRTHWBNLZ-T	ISL95855CIRTZ-T
ISL62776HRTZ-T	ISL6567IRZ-T	ISL89165FRTAZ	ISL9305IRTHWCBLZ-T	ISL95855IRTZ
ISL62776IRTZ	ISL6594DCRZ	ISL89165FRTAZ-T	ISL9305IRTHWCNLZ-T	ISL95855IRTZ-T
ISL62776IRTZ-T	ISL6594DCRZ-T	ISL89165FRTBZ	ISL9305IRTHWCNYZ-T	ISL95856HRZ
ISL6277AIRZ	ISL6596CRZ	ISL89165FRTBZ-T	ISL9305IRTHWCNYZ-T7A	ISL95856HRZ-T
ISL6277AIRZ-T	ISL6596CRZ-T	ISL95880IRTZ	ISL9305IRTHWLNCZ-T	ISL95856IRZ
ISL6277HRZ	ISL6596IRZ	ISL95880HRTZ-TS2778	ISL9305IRTWBNLZ-T	
ISL6277HRZ-T	ISL6596IRZ-T	ISL95880HRTZ-T	ISL9305IRTWCBLZ-T	
ISL6277HRZ-TR5570	ISL6605IRZ	ISL95880HRTZ	ISL9305IRTWCNLZ-T	

Appendix B : Reliability Test Result

Test Description	Condition	ISL15102AIRZ 24 Lead QFN 4x5 mm (0.5mm Lead Pitch)	ISL6312CRZ 48 Lead QFN 7x7 mm (0.5mm Lead Pitch)	ISL8013AIRZ 16 Lead QFN 4x4 mm (0.5mm Lead Pitch)	ISL8036IRZ 24 Lead QFN 4x4 mm (0.5mm Lead Pitch)
Moisture Sensitivity Classification	Level 1	N=66 Acc=0 L1 Pb-Free			
Moisture Sensitivity Classification	Level 3		N=66 Acc=0 L3 Pb-Free	N=236 Acc=0 L3 Pb-Free	N=66 Acc=0 L1 Pb-Free
Bias High Accelerated Stress Test (b-HAST) +130°C / 85% RH	96 hours	N=240 Acc=0	N=196 Acc=0	N=236 Acc=0	
Unbias High Accelerated Stress Test (uHAST) +130°C / 85% RH	96 hours		N=239 Acc=0	N=240 Acc=0	N=240 Acc=0
Unbias High Accelerated Stress Test (uHAST) +130°C / 85% RH	192 hours	N=239 Acc=0	N=239 Acc=0	N=240 Acc=0	N=240 Acc=0
Hot Temperature Storage (HTS) +150°C	1000 hours	N=240 Acc=0	N=241 Acc=0	N=240 Acc=0	N=240 Acc=0
Temperature Cycling Test (TCT) -55°C / +125°C	500 cycles	N=240 Acc=0	N=238 Acc=0	N=240 Acc=0	N=240 Acc=0

	Completed and Passed
	Qualified by Extension (QBE)
	Not Applicable