

Product Change Notice (PCN)

Subject: Carrier Tape change for Renesas Product ISL91108* WLCSP Packaged Product

Publication Date: 3/27/2019

Effective Date: 6/23/2019

Revision Description:

Revision A : - Updated the carrier tape design contained in notice PCN19007 that was issued on Feb 25, 2019. Changes are summarized as follows : -

1. Lokreel width comparison table was removed. Because the carrier tape width will maintain as 12mm, therefore there is no change to the lokreel width.
2. The new carrier tape width (Code “A” as shown in Appendix A) will maintain as 12mm (no change)
3. The corresponding pocket dimension were revised as outlined in Appendix B.

The change is necessary, this to minimize customer’s effort to setup the pick & place machine. The content of the original notice, PCN19007 with the updated carrier tape design is included for reference.

Description of Change:

Carrier Tape dimension change for Renesas Product ISL91108* WLCSP Packaged Product

Affected Product List

| | |
|------------------|---------------------|
| ISL91108IIAZ-T | ISL91108IINZ-T7A |
| ISL91108IIAZ-T7A | ISL91108IINZ-TR5691 |
| ISL91108IINZ-T | ISL91108IINZ-TS2720 |

Reason for Change:

This notice is to inform you that Renesas has qualified a change that standardizes the Carrier Tape used for tape and reel packing of the listed Renesas ISL91108* WLCSP (Wafer Level Chip Scale Package) packaged products. The changes are not expected to affect the automated pick and place equipment used for board mount assembly operations. The differences are outlined in Appendix A and B.

Impact on fit, form, function, quality & reliability:

The change will have no impact on the form, fit, function, quality, device marking (branding), POD (Package Outline Drawing) or labeling of the product shipments. The remainder of the manufacturing operation (package level electrical testing, etc...) will continue to be processed to previously established conditions and systems.

Product Identification:

Product affected by this change is identifiable via Renesas’s internal traceability system.

Qualification status: Completed

Sample availability: 5/6/2019

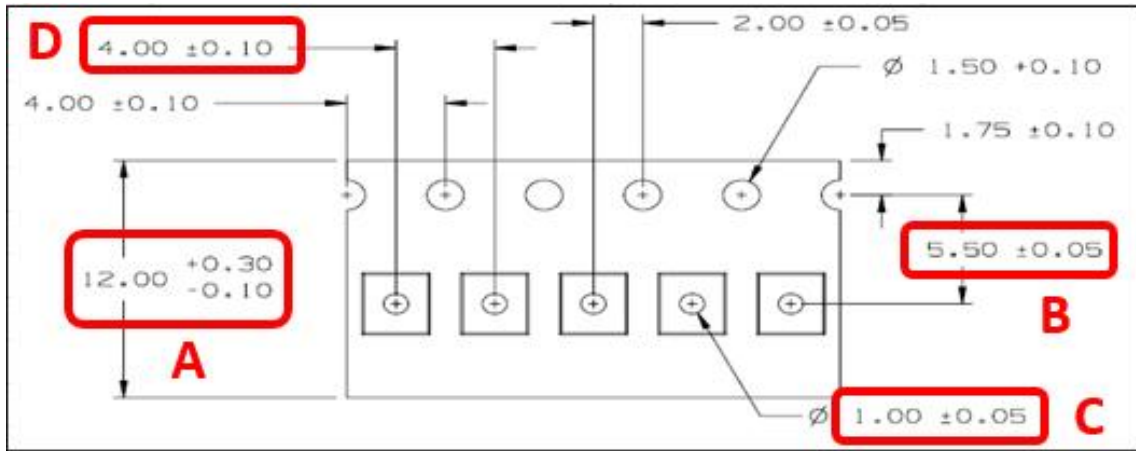
Device material declaration: Available upon request

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.

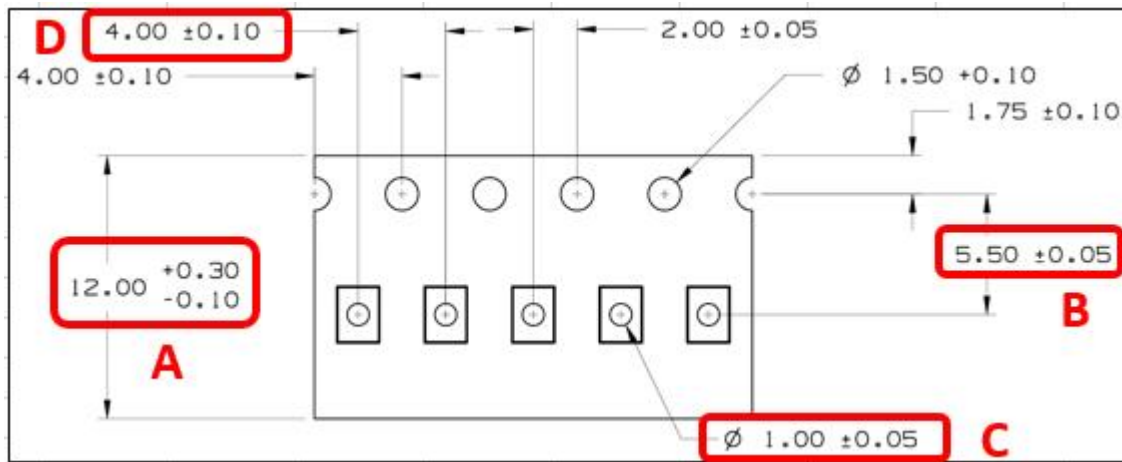
| For additional information regarding this notice, please contact your regional change coordinator (below) | | | |
|---|--|---|--|
| Americas: PCN-US@RENEASAS.COM | Europe: PCN-EU@RENEASAS.COM | Japan: PCN-JP@RENEASAS.COM | Asia Pac: PCN-APAC@RENEASAS.COM |

Appendix A- Comparison of Carrier Tape Dimension

Existing Carrier Tape (12mm) - Top View



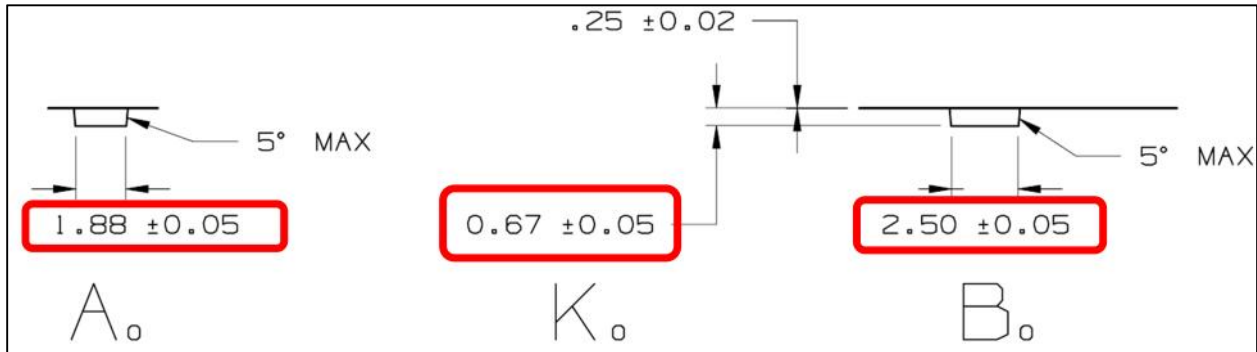
New Carrier Tape (12mm) - Top View



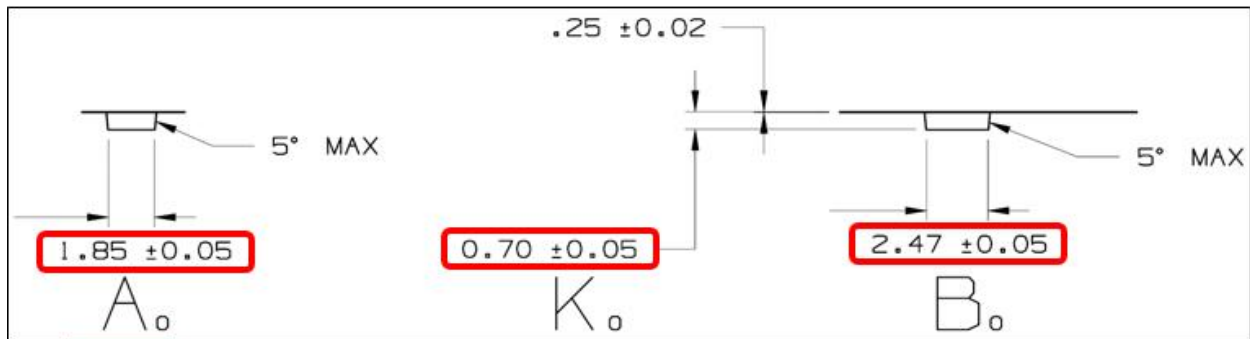
| # | Code | Dimension | Existing Carrier Tape | New Carrier Tape | Summary |
|---|------|---------------------------------|---------------------------------|---------------------------------|-----------|
| 1 | A | Carrier Tape Width | 12.00 mm + 0.30 mm - 0.10 mm | 12.00 mm + 0.30 mm - 0.10 mm | No change |
| 2 | B | Index Hole to Pocket Hole Width | 5.50 mm ± 0.05 mm | 5.50 mm ± 0.05 mm | No change |
| 3 | C | Pocket Hole Diameter | 1.00 mm ± 0.05 mm | 1.00 mm ± 0.05 mm | No change |
| 4 | D | Carrier Tape Indexing pitch | 4.00 mm ± 0.10 mm | 4.00 mm ± 0.10 mm | No change |

Appendix B – Comparison of Carrier Tape Dimension (Cont')

Existing Carrier Tape (12mm) - Side View



New Carrier Tape (12mm) – Side View



| # | Code | Dimension | Existing Carrier Tape | New Carrier Tape | Summary |
|---|----------------|---------------|-----------------------|-------------------|---------|
| 1 | A ₀ | Pocket Width | 1.88 mm ± 0.05 mm | 1.85 mm ± 0.05 mm | Change |
| 2 | K ₀ | Pocket Depth | 0.67 mm ± 0.05 mm | 0.70 mm ± 0.05 mm | Change |
| 3 | B ₀ | Pocket Length | 2.50 mm ± 0.05 mm | 2.47 mm ± 0.05 mm | Change |