

Product Change Notice (PCN)

Subject: Change of Shipping Tray

Publication Date: 12/21/2022

Effective Date: 3/20/2023

Revision Description:

Initial Release

Description of Change:

This notification is to advise our customers that Renesas is changing the shipping tray to a bigger size to accommodate higher quantity per tray, which is from 12 units per tray to 24 units per tray.

The tray dimensions have some changes as depicted in the below table.

There will be no change in the tray material including the tray ESD properties.

| | Existing Shipping Tray | New Shipping Tray |
|----------------------|------------------------|-------------------|
| Supplier | ePAK | ePAK |
| Supplier Part Number | ePAK eVT2333 | ePAK eVT2433 |
| Tray Matrix | 4 x 3 | 4 x 6 |
| Quantity per Tray | 12 | 24 |
| Rating Temperature | 60 deg C Max | 60 deg C Max |
| Tray Material | Conductive PS | Conductive PS |
| External Length | 310 ± 1 mm | 310 ± 1 mm |
| External Width | 130 ± 1 mm | 260 ± 1 mm |
| Pocket Length | 31.1 ± 1 mm | 31.1 ± 1 mm |
| Pocket Width | 26.1 ± 1 mm | 26.1 ± 1 mm |
| Pocket Depth | 22.50 mm | 24.50 mm |
| Row Pitch | 36.5 mm | 36.5 mm |
| Column Pitch | 68.9 mm | 68.9 mm |

Affected Product List: Refer Appendix B.

Reason for Change:

To improve productivity.

Impact on Fit, Form, Function, Quality & Reliability:

The change is expected will have no impact on the fit, function, quality, reliability and environmental compliance of the products. The form in terms of tray dimensions has slight changes.

Product Identification:

Renesas part number engrave on side of tray.

Qualification Status: Completed and passed internal qualification. Refer Appendix A.

Sample Availability Date: Not applicable

Device Material Declaration: Available upon request

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 idt-pcn@lm.renesas.com

Appendix A - Qualification Results

| Qualification Test and Conditions | Reject / Sample Size | Result |
|-------------------------------------------------------------------------------------------|----------------------|--------|
| Manufacturability (IC Fitting, Trim & Form Machine, Vision System, Test Handler) | 0/5 trays | Pass |
| Visual/Mechanical (Chip, crack, pit, incomplete fill, contamination, burr on tray pocket) | 0/5 trays | Pass |
| Static Electricity Test (100 volts max) | 0/5 trays | Pass |
| Surface Resistivity Test (1×10^5 to 1×10^{11} ohms per sq.) | 0/5 trays | Pass |
| Dimensional (critical dimensions based on drawing) | 0/5 trays | Pass |
| Drop Test (Renesas Standard Drop Test) | 0/5 trays | Pass |

Appendix B – Affected Product List

| | | | |
|----------------|----------------|----------------|----------------|
| FS1023 | FS1023-2002-DL | FS1025-2001-DL | FS1027-2001-DL |
| FS1023-1001-DG | FS1025 | FS1027 | |
| FS1023-2001-DL | FS1025-1001-DG | FS1027-1001-DG | |