

Product Change Notice (PCN)

Subject: Change package lead frame of UPD720114GA due to assembly machine

Publication Date: 12/20/2021

Effective Date: 6/1/2022

Revision Description: Initial release

Description of Change:

Because the Trim & Form system of lead frame will be out of service, the assembly machine is needed to change. The layout of lead frame and package outline will be changed by out of service the assembly machine. No change for booking part number for the changing. Please see below table about the changing points.

Comparison table

Item		New	Current
Assembly	Assembly machine Company	Yamada	Fujitsu
	Package Type	TQFP 7x7 48pin	TQFP7x7 48pin
	Lead frame layout	5rows	3rows
	Lead frame	Cu	Cu
	Outer lead plating	Sn	Sn
	Package outline	See attachment file	See attachment file
	Marking	Can be identified	Can be identified

Affected Product List:

Booking P/N
UPD720114GA-YEU-AT

Reason for Change:

Due to out of service of assembly equipment, it is necessary to change the equipment. It will lead to changes in the layout of lead frame and package outline.

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

Fit: E-pin and chamfer size is different.

Form: None, Function: None, Quality & Reliability: No impact

Product Identification:

Changed products can be identified by the date code. Please contact our sales office.

Qualification Status:3/1/2022 [Qualification Status]

Sample Availability Date: 3/31/2022

Device Material Declaration:1/31/2022 [Device Material Declaration]

- 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 Renesas sales representative.

UPD720114GA PCN changing points of Package outline

Date : Dec. 15, 2021

Renesas Electronics Corporation

IOT Infrastructure Business Unit

Mobility, Infrastructure & IOT Power Business Division

Battery management, USB Department

Product Test Engineering & Product management Division

Analog product, PE/TE Department

Doc No. APTE4-BB-21-0012

CONTENTS

- Reason of Changes **Page 3**
- Package outline specifications **Page 5**

REASON FOR CHANGES

Due to out of service of assembly equipment into SPIL, it is necessary to change the equipment.
It leads changing of layout of lead frame and package outline.

No change for booking part number

The booking P/N is following ways

PCN Schedule

Qualification Status: 3/1/2022

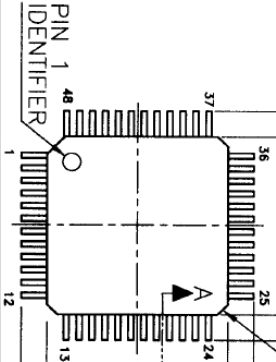
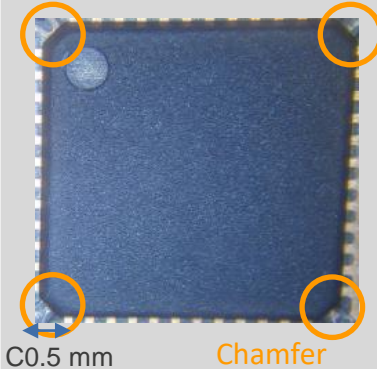
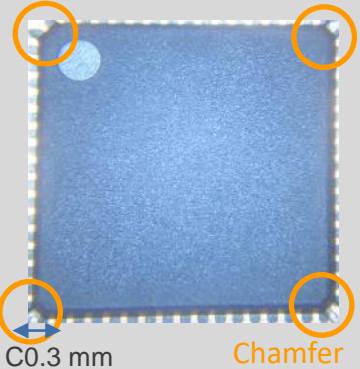
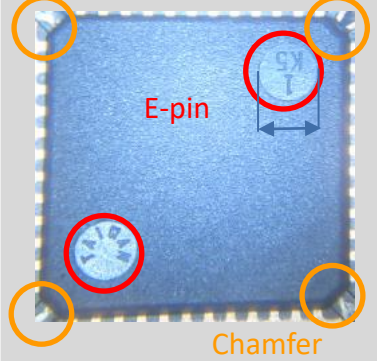
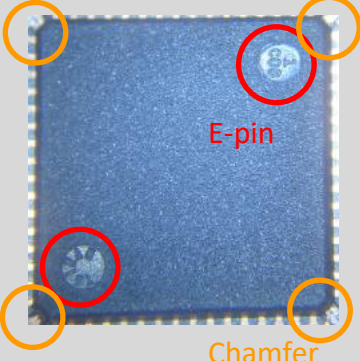
Sample Available: 3/31/2022

MP Start: 6/1/2022

P/N UPD720114GA-YEU-AT

PACKAGE OUTLINE SPECIFICATION

The difference points about changing lead frame layout are shown by following table.

TQFP 7*7 Layout	POD Layout	3rows L/F layout(current)	5rows L/F layout(new)	Different Area
Package Top View				<ol style="list-style-type: none"> Chamfer size is different 3x12 layout : C0.5 mm 5x14 layout : C0.3 mm
Package Bottom View	Undefined			<ol style="list-style-type: none"> E-pin size is different 3x12 layout : 1.4 mm 5x14 layout : 1.0 mm Chamfer size is different 3x12 layout : C0.5 mm 5x14 layout : C0.3 mm

Chamfer and E-pin size are different. There are no other dimensional changes.
No impact for reliability about the changes

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