

RENESAS TECHNICAL UPDATE

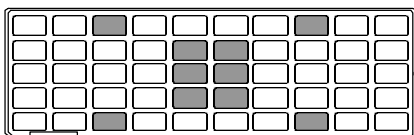
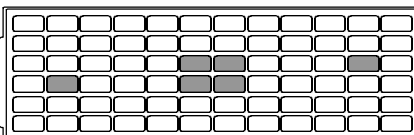
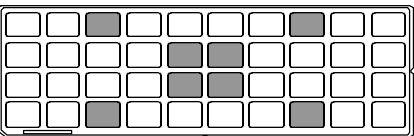
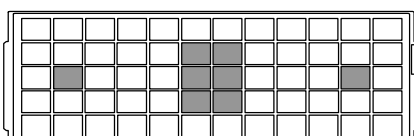
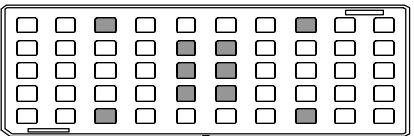
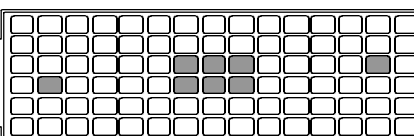
Classification of Production	Packages	No	TN-PKG-086C/E	Rev.	3
THEME	Notification of changing over to JEDEC tray (for QFP1420,2020 & TQFP1414)	Classification of Information	<ol style="list-style-type: none"> 1. Spec change 2. Supplement of Documents 3. Limitation of Use 4. Change of Mask 5. Change of Production Line 		
PRODUCT NAME	All devices to which the following packages are applied ; QFP1420 : FP-128,128B QFP2020 : FP-88,112,112B TQFP1414 : TFP-64,80,80F,100,100B,120	Lot No.	Reference Documents	term of validity	
				permanent	

1.Contents of change

We will change the shipment tray from the old Hitachi (Semiconductor group) custom-made specification into the JEDEC specification. According to this change,the number of devices loaded in a tray, the pocket pitch, and the heat-proof temperature change.

1.Tray

(Trays are due to change in July,2003)

Package		Before change	After change
<u>QFP1420</u> FP-128 FP-128B	Outline		
	Number of devices	5×10=50pcs/tray	6×12=72pcs/tray
	Tray type	PT844B(130°C heat-proof) PT844C(150°C heat-proof)	PTA63C(150°C heat-proof)
<u>QFP2020</u> FP-88 FP-112 FP-112B	Outline		
	Number of devices	4×10=40pcs/tray	5×12=60pcs/tray
	Tray type	PT872CM(150°C heat-proof)	PTA64C(150°C heat-proof)
<u>TQFP1414</u> TFP-64 TFP-80 TFP-80F TFP-100 TFP-100B TFP-120	Outline		
	Number of devices	5×10=50pcs/tray	6×15=90pcs/tray
	Tray type	PT815B(130°C heat-proof) PT867B(130°C heat-proof) PT871C(150°C heat-proof)	PTA65C(150°C heat-proof)

2. Cause of change

To standardize the tray specification and to reduce the environmental load by increasing the number of devices loaded in a tray.

3. Change time

We will apply the new tray (JEDEC tray) to the devices produced in July, 2003.

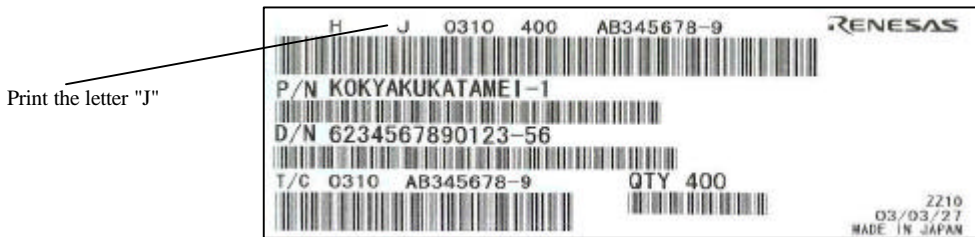
Due to the stock control, some devices will be shipped in an old tray (Hitachi tray) for a while. We hope your understanding and approval.

As to the devices shipped in a JEDEC tray, the letter "J" is printed on the first column of an inner box label, and the "JEDEC SPEC TRAY" indication is printed on the front side of an inner box for a while.

In addition, for the devices which have already been shipped in a JEDEC tray, the "JEDEC SPEC TRAY" indication is printed on the front side of an inner box for a while.

• Indication of inner box label

The letter "J" is printed on the first column of an inner box label



* The same label is attached on the moisture-proof bag.
* We plan to indicate the letter "J" for approximately one year.

Indication of inner box

The indication of "JEDEC SPEC TRAY" is printed in black on the front side of an inner box.

