



Product Change Notice (PCN)

Subject: Site addition of package assembly and final test

Publication Date: 7/21/2022 Effective Date: 3/31/2023

Revision Description:

Initial release

Description of Change:

Renesas plans to add the site of assembly/final test for RZ/T1-M and EC-1 to realize stable supply. Renesas would like to deliver product produced in the added site for your orders. However, booking part number is changed for identification because a part of package drawing is changed from current product. We would highly appreciate it if you could confirm the following items and approve our plan.

Please refer the following comparison between current product and additional site's one.

Items	Additional site	Current
Company	Assembly: Advanced Semiconductor	Amkor Technology Japan, Inc.
	Engineering, Inc.	
	FT: King Yuan ELECTRONICS CO., LTD.	
Location	Assembly: Kaohsiung, Taiwan	Assembly: Hakodate, Japan
	FT: Chu-Nan, Taiwan	FT: Kumamoto, Japan
Packaging	Change	No change
Tester No change		No change
Test program	No change	No change

Affected Product List:

Please refer to "Product list! In appendix.

Reason for Change:

For stable supply of the product.

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

For RZ/T1-M, package size (min.) is changed from 5.80mm to 5.85mm and (max.) is changed from 6.20mm to 6.15mm, and package total thickness (max.) is changed from 1.70mm to 1.35mm, because of assembly site change. For EC-1, package size (min.) is changed from 11.92mm to 11.85mm and (max.) is changed from 12.08mm to 12.15mm, and package total thickness (max.) is changed from 1.60mm to 1.50mm. No impact on the fit, function, quality, and reliability.

Product Identification:

The product can be identified through part number, package marking, and packing label.

Oualification Status: Available upon request

Sample Availability Date: 8/31/2022 (WS sample can be delivered for evaluation)

Device Material Declaration: Available upon request

PCN#: [PC-SOC-A005A/E]



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.

Appendix

Product list:

R7S910020CBG#AC0	R7S910022CBG#AC0	R9A06G043GBG#AC0	
R7S910021CBG#AC0	R7S910023CBG#AC0		

Added products:

R7S910020CB A#B C0	R7S910022CB A#B C0	R9A06G043GB B # B C0	
R7S910021CB A # B C0	R7S910023CB A # B C0		

MOQ: 3,920 pcs (RZ/T1-M), 1,344 pcs (EC-1)

Package outline:

Current product					Additional product				
RZ/T1-M (112BGA)									
		Dimensio	on in Millimet	ters			Dimensi	on in Millime	ters
	Symbol	Min.	Nom.	Max.		Symbol	Min.	Nom.	Max.
Package size	D	5.80	6.00	6.20	Package size	D	5.85	6.00	6.15
Package size	Е	5.80	6.00	6.20	Package size	E	5.85	6.00	6.15
Total thickness	Α	-	-	1.70	Total thickness	Α	-	-	1.35
Stand off	A1	0.20	0.25	0.30	Stand off	A1	0.20	0.25	0.30
Ball pitch	е	-	0.50	-	Ball pitch	е	-	0.50	-
Ball width	b	0.25	0.30	0.35	Ball width	b	0.25	0.30	0.35
Ball offset (Package)	x1	-	-	0.20	Ball offset (Package)	x1	-	-	0.15
Ball offset (Ball)	x2	-	-	0.05	Ball offset (Ball)	x2	-	-	0.05
Coplanarity	у	-	-	0.08	Coplanarity	у	-	-	0.08
Mold parallelism	y1	-	-	0.20	Mold parallelism	y1	-	-	0.20

Current product

EC-1 (196BGA)

		Dimension in Millimeters		
	Symbol	Min.	Nom.	Max.
Package size	D	11.92	12.00	12.08
Package size	E	11.92	12.00	12.08
Total thickness	А	-	-	1.60
Stand off	A1	0.35	0.40	0.45
Ball pitch	е	-	0.80	-
Ball width	b	0.45	0.50	0.55
Ball offset (Package)	x1	-	-	0.15
Ball offset (Ball)	x2	-	-	0.08
Coplanarity	у	-	-	0.10
Mold parallelism	y1	-	-	0.20

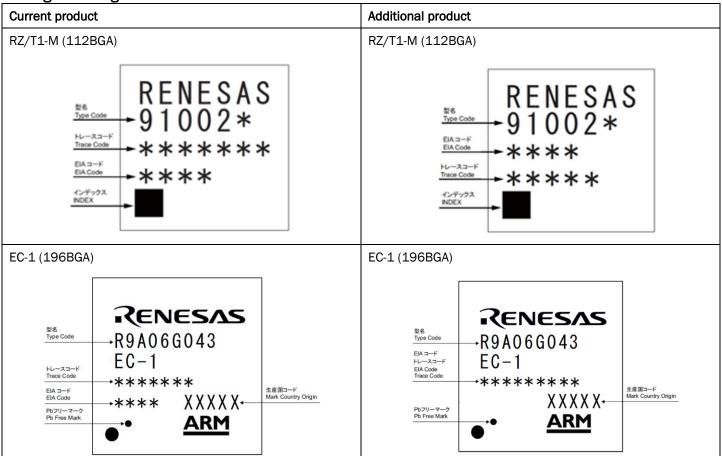
Additional product

		Dimension in Millimeters		
	Symbol	Min.	Nom.	Max.
Package size	D	11.85	12.00	12.15
Package size	E	11.85	12.00	12.15
Total thickness	Α	-	-	1.50
Stand off	A1	0.36	0.41	0.46
Ball pitch	е	-	0.80	-
Ball width	b	0.45	0.50	0.55
Ball offset (Package)	x1	-	-	0.15
Ball offset (Ball)	x2	-	-	0.08
Coplanarity	у	-	-	0.10
Mold parallelism	y1	-	-	0.20

- 3 -

PCN# : [PC-SOC-A005A/E]

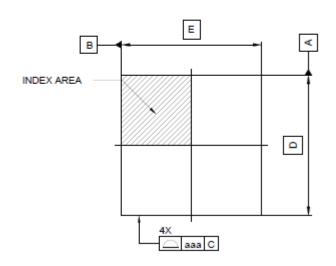
Package marking:

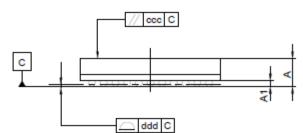


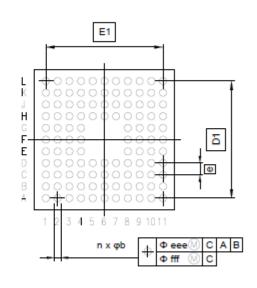
Packing label:

Current product		Additional product
RZ/T1-M (112BGA)		
D/N: R7S910XXXCBG	ACOWL01000	D/N: R7S910XXXCBA U03L
SPN: R7S910XXXCBG#AC0 AC	COWL01000	SPN: R7S910XXXCBA#BC0 BC0M503000
or		
D/N: R7S910XXXCBG	AC0WL02000	
SPN: R7S910XXXCBG#AC0 AC	COWL02000	
EC-1 (196BGA)		
D/N: R9A06G043GBG	ACOWL01000	D/N: R9A06G043GBB U03L
SPN: R9A06G043GBG#AC0 A	COWL01000	SPN: R9A06G043GBB#BC0 BC0M503000
or		
D/N: R9A06G043GBG	AC0WL02000	
SPN: R9A06G043GBG #AC0 A	COWL02000	

JEITA Package code	RENESAS code	MASS(TYP.)[g]
P-LFBGA112-6x6-0.50	PLBG0112KB-A	0.09

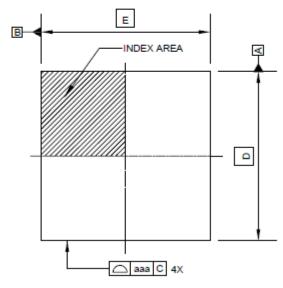


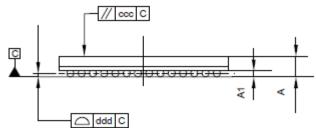


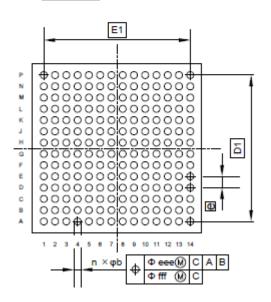


Reference	Dimens	Dimension in Millimeters			
Symbol	Min.	Nom.	Max.		
D	-	6.00	-		
E	_	6.00	-		
D1	_	5.00	-		
E1	_	5.00	-		
Α	_	-	1.35		
A1	0.20	_	-		
b	0.25	0.30	0.35		
е	-	0.50	-		
aaa	_	-	0.15		
ccc	-	-	0.20		
ddd	-	_	0.08		
eee	-	-	0.15		
fff	-	1	0.05		
n	-	112	-		

JEITA Package code	RENESAS code	MASS(TYP.)[g]
P-LFBGA196-12x12-0.80	PLBG0196GB-A	0.43



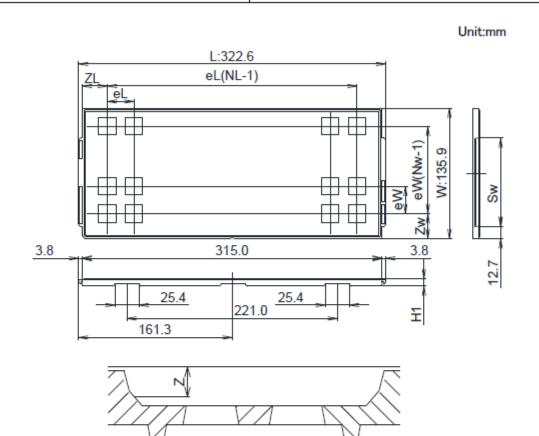


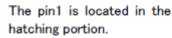


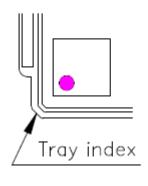
Reference	Dimension in Millimeters			
Symbol	Min.	Nom.	Max.	
D	_	12.00	-	
E		12.00	_	
D1	ı	10.40	-	
E1	-	10.40	-	
Α	_	_	1.50	
A1	0.36	-	-	
b	0.45	0.50	0.55	
е	-	0.80	-	
aaa	-	_	0.10	
ccc	-	_	0.20	
ddd	ı	-	0.10	
eee	-	-	0.15	
fff	ı	-	0.08	
n	-	196	-	

包装仕様 Packing Specification トレイ包装図 TrayOutlineDrawing BJ-R105

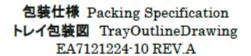
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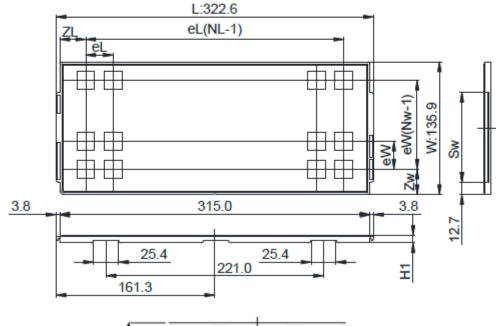


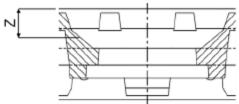
	tray Code		BJ-R105
		Z	1.65
		Zw	8.15
	Position dimension of cells	ZL	7.90
		eW	9.20
		eL	8.80
L			92.10
	Thickness (mm)	H1	7.62
Γ	Number of cells		14
			35
	Maximum storage Pcs. IC/Tray		490
Γ	Maximum storage Pcs. IC/Inner	box	3920
	Material	Carbon PPE	
	Heat resistant temperature	135°CMAX	
	JEDECorCustom	JEDEC	
Γ	Surface resistance		1.0x10 ⁴ ≦R<1.0x10 ¹¹ Ω



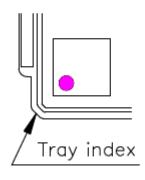
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Unit:mm





The pin1 is located in the hatching portion.



Tray Code		EA7121224-10 REV.A
Position dimension of cells	Z	2.01
	Zw	11.95
	ZL	11.00
	eW	16.00
	eL	14.65
	Sw	92.1
Thickness (mm)	H1	7.62
Number of cells	Nw	8
	NL	21
Maximum storage Pcs. IC/Tray		168
Maximum storage Pcs. IC/Inner box		1344
Material		Carbon PPE
Heat resistant temperature		135°CMAX
JEDECorCustom		JEDEC
Surface resistance		1.0x10^4≦R<1.0x10^11Ω