

RENESAS TECHNICAL UPDATE

1753, Shimonumabe, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8668 Japan
Renesas Electronics Corporation

Product Category	RF & Microwave device		Document No.	TN-RF*-A002A/E	Rev.	1.00
Title	Added the Φ 330-mm shipment reel		Information Category	Change of packages		
Applicable Product	RF & Microwave device (MMIC, RF transistor)	Lot No.	Reference Document	N.A		
		From August 2013				

1. Outline and Affected products;

Φ 330mm shipment reel will be added for RF transistor and MMIC of Compound Semiconductor Devices Business Division.

Please refer to the list of Appendixes 1 for the applicable product.

2. Details of the shipment reel added

In Φ 330mm shipment reel, we will add the reel of following specifications.

Tape width: 8-mm and 12-mm

Dimensions: Please refer to Appendixes 2.

Appearance: Please refer to Appendixes 3.

3. Reason for changes

For the stable supply

4. Schedule of changes

We are planning to apply from August, 2013 production.

5. Electrical characteristics and reliability

There is no influence of the electrical characteristics and reliability by this change.

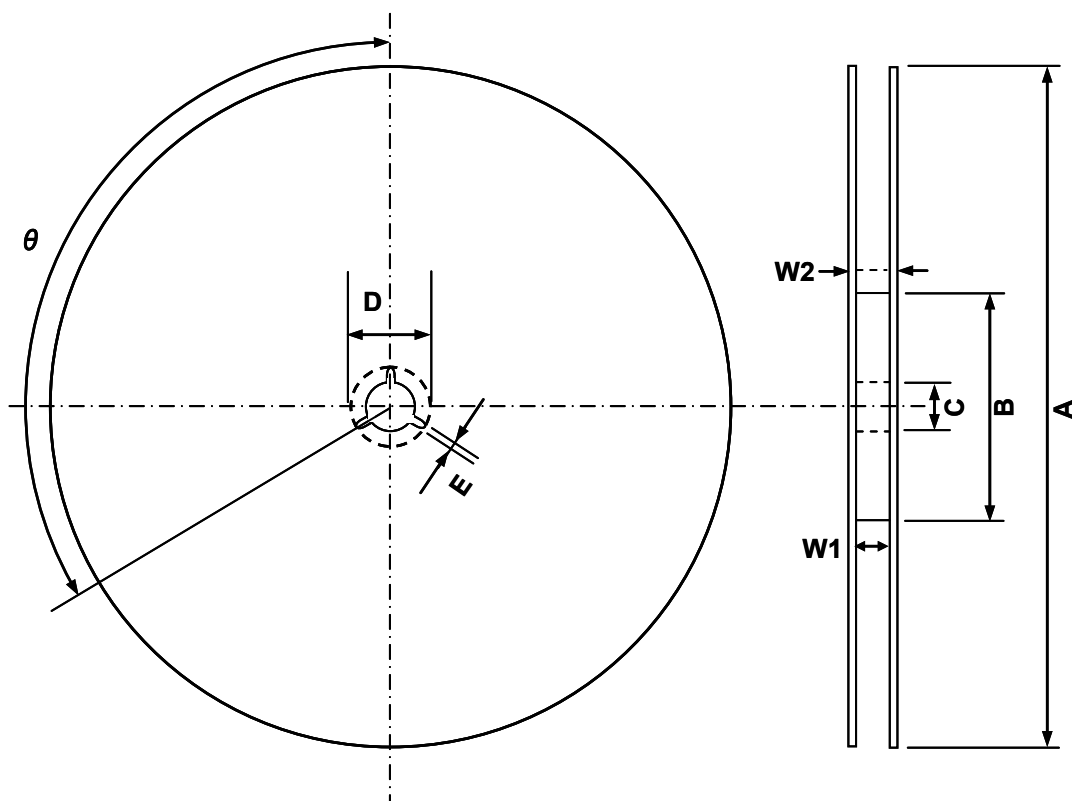
Also, there is no change of manufacturing process and a manufacture flow.

Appendix 1: Applicable product list of added Φ 330-mm shipment reel.

Product of 8mm width reel
2SC5508-T2B-A
NE3503M04-T2B-A
NE3508M04-T2B-A
NE3509M04-T2B-A
NE3510M04-T2B-A
NE3513M04-T2B-A
NE3519M04-T2B-A
NE3511S02-T1D-A
NE3512S02-T1D-A
NE3514S02-T1D-A
NE3515S02-T1D-A
NE3516S02-T1D-A
NE3517S03-T1D-A
NE3520S03-T1D-A
UPB1051T6T-E1-A
NESG7030M04-T2B-A

Product of 12mm width reel
NE325S01-T1B
NE425S01-T1B
NE3210S01-T1B
NE4210S01-T1B
NE32584C-T1A
NE321084C-T1A
NE350184C-T1A-A
UPG2118K-E3-A
UPD5720K-E3-A
UPD5716GR-E1-A
UPC3228T5S-E2-A
UPD5739T7A-E1-A
UPD5754T7A-E1-A
UPC3243T7A-E1-A
UPD5761T7A-E1-A
UPD5753T7G-E1-A
UPC3250T7L-E1-A
NE5511279A-T1A-A
NE5520279A-T1A-A
NE5520379A-T1A-A
NE552R479A-T1A-A
NE552R679A-T1A-A
NE5531079A-T1A-A
NE5550979A-T1A-A
NE5550279A-T1A-A
NE5550779A-T1A-A
UPG2424T7E-E2-A
UPG2054K-E3-A
UPD5715GR-E1-A








Appendixes 2: Dimensions of added $\Phi 330$ -mm shipment reel.



(Unit: mm, unless otherwise specified)

ITEM		SYMBOL	SIZE	
Width of Tape			8mm	12mm
Flange	Diameter	A	$\phi 330 \pm 2$	
	Inner Space of Flanges	W 1	9.4 ± 1.0	13.4 ± 1.0
	Outer Width of Flanges	W 2	13.4 ± 1.0	17.4 ± 1.0
Hub	Outer Diameter	B	$\phi 100 \pm 1$	
	Spindle Hole Diameter	C	$\phi 13 \pm 0.20$	
	Key Slit Diameter	D	$\phi 21 \pm 0.8$	
	Key Slit Width	E	2 ± 0.5	
	Key Slit Location	θ	120°	

Appendix 3: Appearance of added $\Phi 330$ -mm shipment reel.

	The existing reel	Added reel
Outside	<p>The edge of a core is flat form.</p> <p>Reel appearance</p>  <p>Close-up of core part</p> 	<p>The edge of a core has convex part.</p> <p>Reel appearance</p>  <p>Close-up of core part</p> 
	<p>The inner side form of a flange is flat.</p> <p>Reel inner side</p>  <p>Close-up of inner flange part</p> 	<p>Inside a flange has spoke-like convex part.</p> <p>Reel inner side</p>  <p>Close-up of inner flange part</p> 