

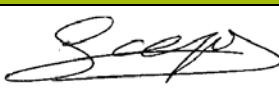
Part Approval Sheet

2008.10.14



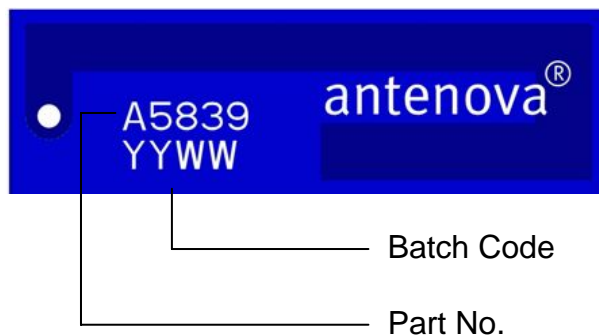
Device ID	3030A5839-01
Device Type	SMD Antenna

Revision History

VERSION	DATE	SUBJECT	APPROVED
Rev 1.0	17 July 2008	Initial Version	

1 Part number

Rufa Left: 3030A5839-01



2 General data

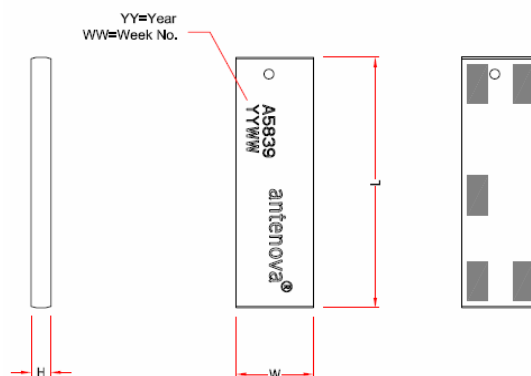
Product name	Rufa 2.4 GHz
Part Number	3030A5839-01 (Left) 3030A5887-01 (Right)
Frequency	2.4 – 2.5 GHz
Polarization	Linear
Operating temperature	-40 °C to +85 °C
Impedance with matching	50 Ω
Weight	0.1 g
Antenna type	SMD
Dimensions	12.8 x 3.9 x 1.1 [mm]

3 Electrical characteristics

	Typical performance	Conditions
Peak gain	2.1 dBi	All data measured on Antenova's reference boards, part numbers AN-1-0543-1 and AN-1-0556-1 Data given for the 2.4 – 2.5 GHz frequency range
Average gain	-1.2 dBi	
Average efficiency	75%	
Maximum Return Loss	-11 dB	
Maximum VSWR	1.8:1	

4 Antenna dimensions

Rufa Left



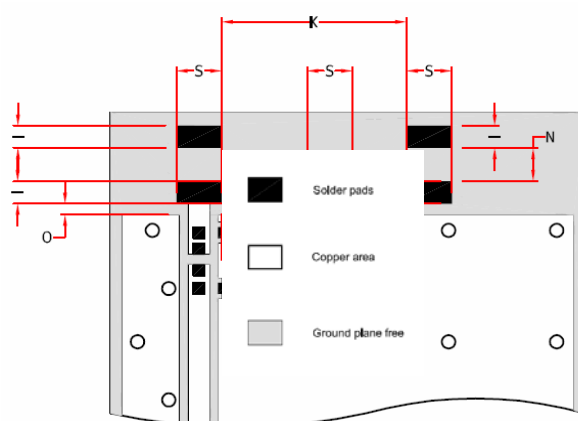
L	W	H
Length	Width	Height
12.8 ± 0.2	3.9 ± 0.2	1.1 ± 0.2

Dimensions in mm

5 Antenna footprint

Rufa Left (Part No: 3030A5839-01)

* CAD files of the antenna footprint are available from Antenova on request.



Please contact info@antenova.com for further details.

I	S	K	J	N	L	O
1.0 ± 0.1	2.0 ± 0.1	8.1 ± 0.1	3.7 ± 0.1	1.5 ± 0.1	2.4 ± 0.1	0.5 ± 0.1

Dimensions in mm

6 Soldering

This antenna is suitable for lead free soldering.

The reflow profile should be adjusted to suit the device, oven and solder paste, while observing the following conditions:

- The maximum temperature should not exceed 240 °C
- The antenna should not be exposed to temperatures exceeding 120 °C more than 3 times during the soldering process.

7 Hazardous material regulation conformance

The antenna has been tested to conform to RoHS requirements. A certificate of conformance is available from Antenova's website.

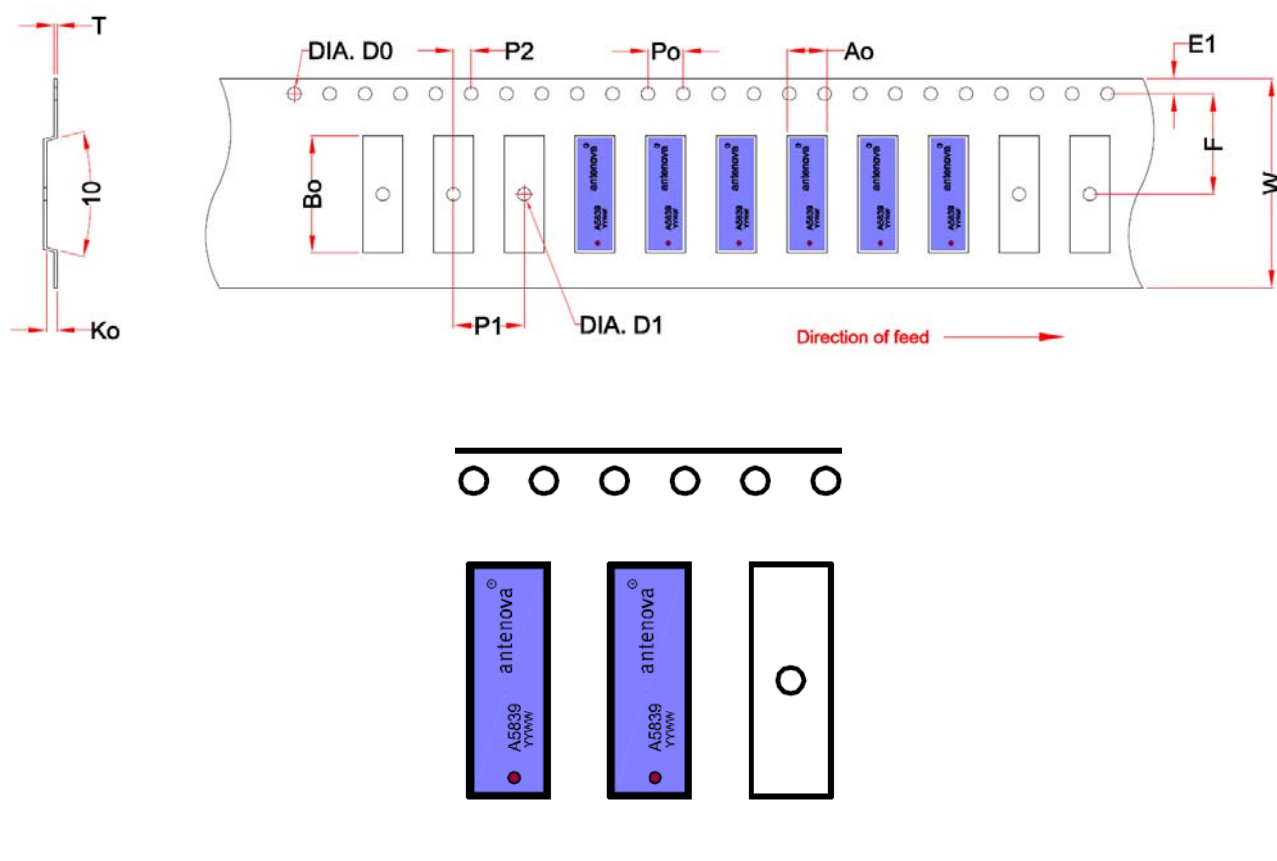
8 Packaging

8-1 Optimal storage conditions

Temperature	-10°C to 40°C
Humidity	Less than 75% RH
Shelf Life	12 Months
Storage place	Away from corrosive gas and direct sunlight
Packaging	Reels should be stored in plastic packaging

8-2 Tape characteristics

Rufa Left
[Part Number: 3030A5839-01]

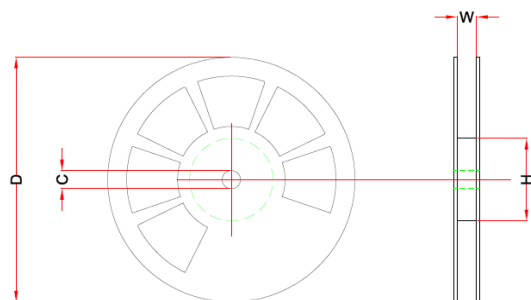


W	F	E1	P0	P1	P2	A0	B0	K0	T	D0	D1
24 ± 0.2	11.5 ± 0.1	1.75 ± 0.1	4 ± 0.1	8 ± 0.1	2 ± 0.1	4.3 ± 0.1	13.1 ± 0.1	1.4 ± 0.1	0.3 ± 0.05	Min 1.5	Min 1.5

Dimensions in mm

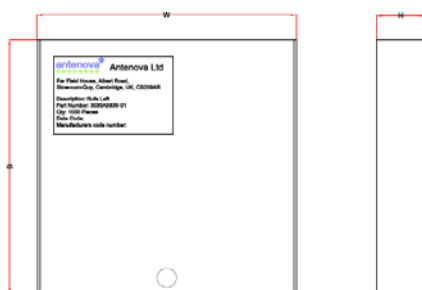
Quantity	Leading Space	Trailing Space
1000 pcs / reel	50 blank antenna holders	37 blank antenna holders

8-3 Reel dimensions



Width (W)	Reel Diameter (D)	Hub Diameter (H)	Shaft Diameter (C)
24 mm	180 mm (7")	60 mm (2")	13 mm

8-4 Box dimensions



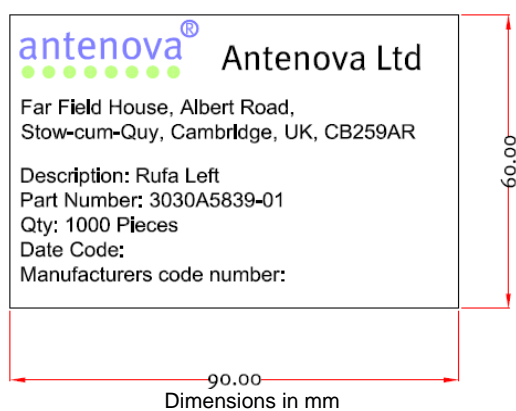
Width (W)	Breadth (B)	Thickness (H)
203 mm	188 mm	40 mm

8-5 Bag properties

Reels are supplied in protective plastic packaging

8-6 Reel label information

Rufa Left





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Integrated Antenna and RF Solutions