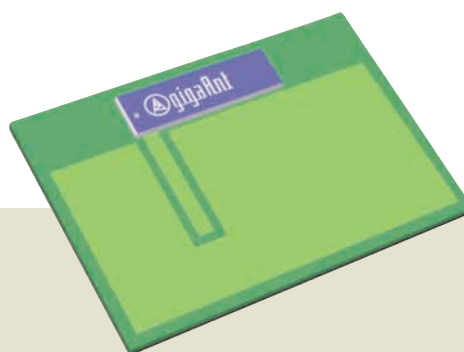


## 2.4 GHz Rufa SMD Antenna

Embedded, Low-Profile antenna  
for automatic assembly



Size: 12.8 x 3.9 x 1.0 mm

This surface-mounted, high-performance low-profile antenna is intended for use with all 2.4 GHz applications where small size and low-profile are key factors.

The antenna requires a ground plane, i.e. your device acts as an active part of the antenna and thus demands careful consideration concerning its placement. For optimal performance, we strongly recommend those customers not very well acquainted with RF technology to use our know-how when it comes to implementing the antenna in your application. We can offer advanced measuring equipment, custom tuning and technical support to obtain a secure and reliable implementation.

The Rufa antenna is suitable for Bluetooth™, Wireless LAN and Home RF products within the 2.4 GHz range. Typical application areas are:

- Mobile phones
- PDAs
- Headsets
- Laptop PCs
- Compact Flash cards
- PC cards

### Description

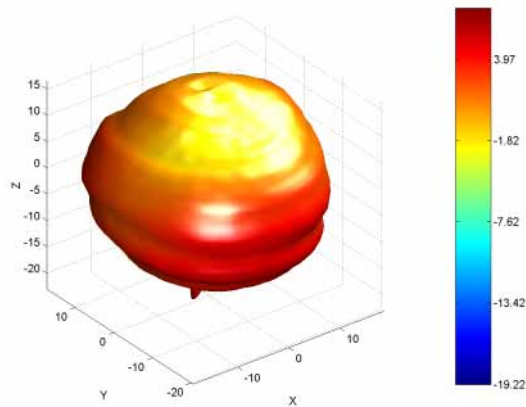
The Rufa SMD antenna is an integrated low-profile antenna, only 12.8 x 3.9 x 1.0 mm in size. It is intended for SMT assembly. Matching network is needed. On request the Rufa antenna can be customized according to your design.

## Antenna Specification

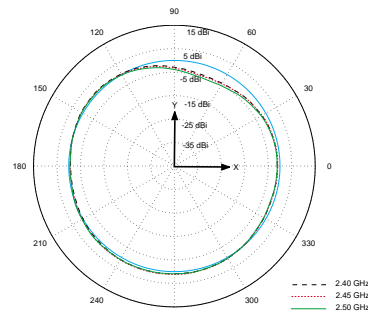
Frequency:	2.4-2.5 GHz
Type:	Ground plane dependent
Efficiency:	65% *
Gain:	4 dBi*
Nominal impedance:	50 Ohm
VSWR:	<2:1 *
Mounting:	SMD
Operating temperatur:	-40 °C to +85 °C
Relative humidity:	93% at +40 °C
Weight:	0.1 g

\* Typical values

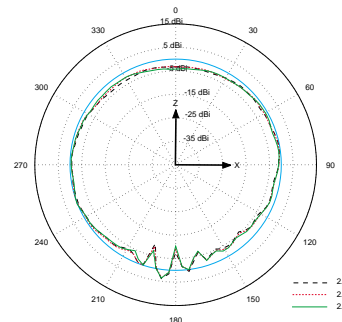
## Typical 3D Radiation pattern



## Horizontal cut, xy-plane

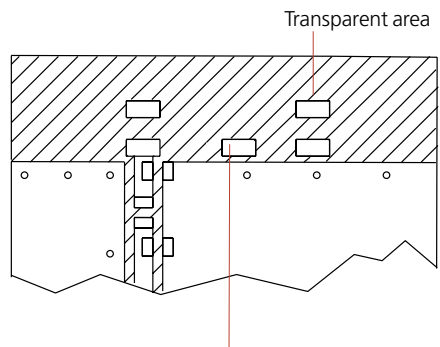


## Vertical cut, xz-plane



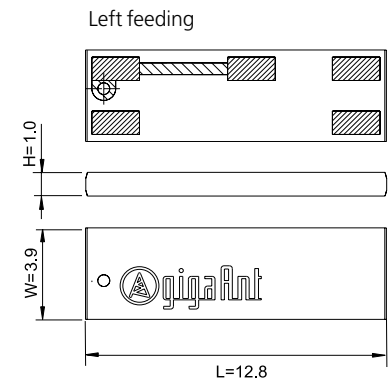
## Dimensions

Mounting interface (Left feeding)



Detailed foot print see application note

Configuration



## Product name

Rufa 2.4GHz Left Feeding  
Rufa 2.4GHz Right Feeding

## Article No.

3030A5839-01  
3030A5887-01

## Packaging

Tape on reel  
Tape on reel