

2.4 GHz Mica SMD Antenna

Miniature, low-weight unit
for automatic assembly



Size: 20.5x3.35x3.6 mm

This surface-mounted, high-performance miniature antenna is intended for use with all 2.4 GHz applications; where small size and low weight 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.

It is important to note that, upon request, the Mica antenna can be customized according to your design.

Typical application areas are:

- Mobile phones
- PDAs
- Headsets
- Laptop PCs
- Peripheral equipment
- PC cards

Description

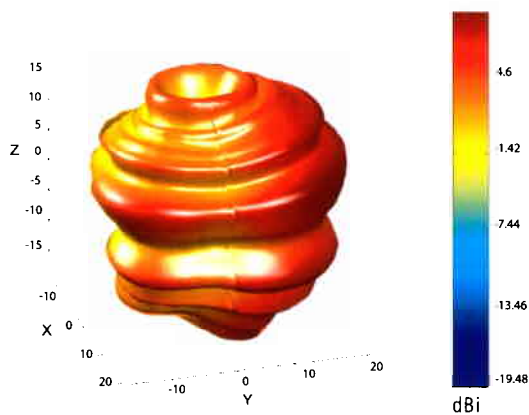
The Mica antenna is an integrated low-weight antenna, only 20.5x3.35x3.6 mm in size. It is designed for automatic assembly (DFA). Matching network is needed.

Antenna Specification

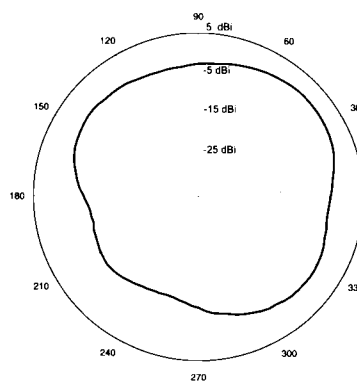
Frequency:	2.4-2.5 GHz
Type:	Ground plane dependent
Efficiency:	> 50%*
Gain:	2.5 dBi*
Nominal impedance:	50 Ohm
VSWR:	<2.0:1*
Mounting:	SMD
Operating temperatur:	-40 °C – +85 °C
Relative humidity:	93% at +40 °C
Weight:	0.4g

* Typical values

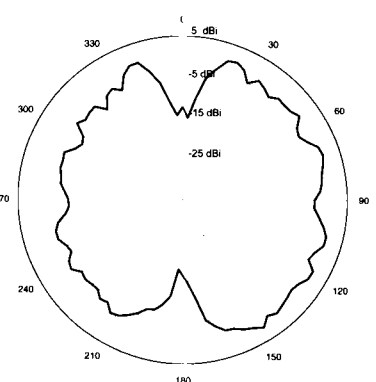
3D Radiation pattern



Horizontal cut, xy plane

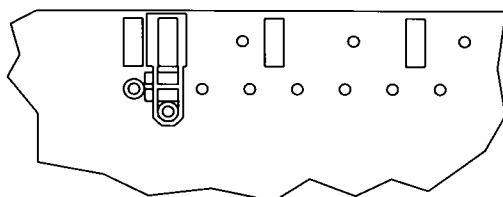


Vertical cut, xz-plane

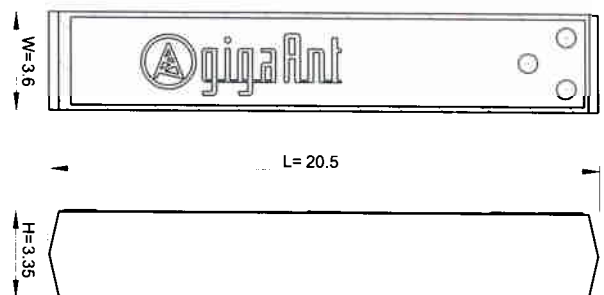


Dimensions: (mm)

Mounting interface



Detailed foot print see application note



Product name / Article No

Mica	30201840 9
Mica	30201840 2
Mica	30201840 3

Packaging

Tape on reel / Bulk
Tape on reel / 500 Pcs
Tape on reel / 2000 Pcs