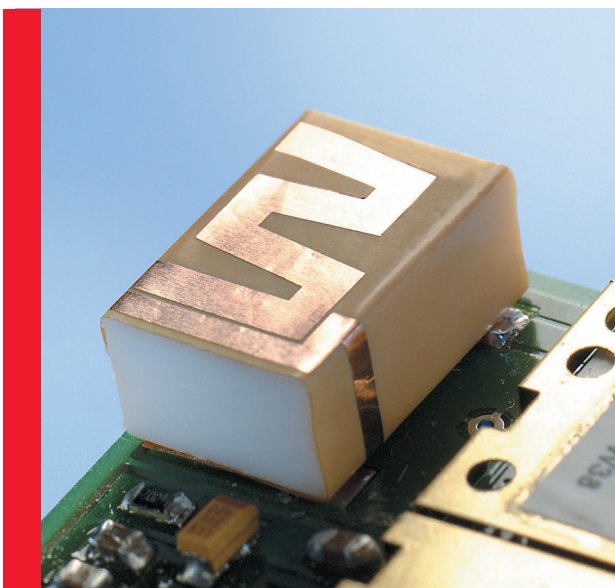




Bluetooth SMD Antenna

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- The antenna is intended to be mounted over a ground-plane.
- Ground-plane size is tested as large as 300 x 200 mm down to 35 x 30 mm with the same performance.
- Interference from surrounding components are tested with type B USB-connector, Barney-module and a standard SO16 logic IC.
- Specially designed patterns are available on demand for standard board thickness with via.
- The antenna requires no matching network.

Typical Design

The antenna is made of a flex film material mounted on a plastic carrier with the dimension 15 x 10 x 6 mm (l x w x h).

For an optimized antenna solution, the antenna must be matched with the hardware.

Typical Mechanical Measurement

Size	15 x 10 x 6 mm (l x w x h).
Weight	2 g
Mounting	SMT

Typical Electrical Performance

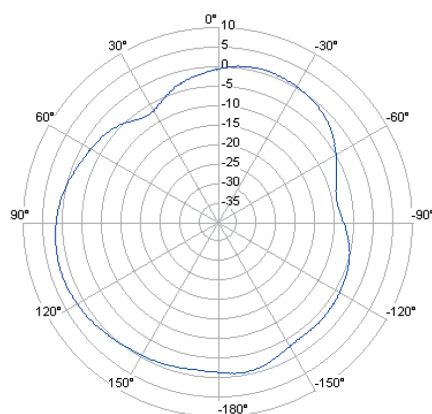
Frequency range	2400-2484 MHz
Max gain*	2 dBi (E-plane)
VSWR	< 2.0:1
Polarization	Linear
Azimuth beamwidth	Omnidirectional
Power handling	> 5 W cw
Feeding point	50 Ω unbalanced

*Figures depending on ground-plane size.

Typical Radiation Pattern

Antenna gain, dBi in free space.

E-plane vertical and horizontal polarization, 2400 MHz



H-plane vertical and horizontal polarization, 2400 MHz.

