

# Bluetooth SMD Antenna



- 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  $15 \times 10 \times 6$  mm  $(1 \times w \times h)$ .

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

#### **Typical Mechanical Measurement**

Size  $15 \times 10 \times 6 \text{ mm (l} \times w \times h).$ 

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

<sup>\*</sup>Figures depending on ground-plane size.

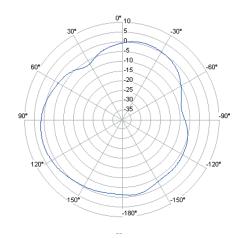
## **Typical Radiation Pattern**

Feeding point

Antenna gain, dBi in free space.

E-plane vertical and horizontal polarization, 2400 MHz

 $50~\Omega$  unbalanced



H-plane vertical and horizontal polarization, 2400 MHz.

