

Internal Antenna Specifications

Antenna Model: RFB0022



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1.Product Description

This product is a high-efficiency, high-gain internal antenna that complies with IEEE 802.11b/g/n standards and can be widely used in WIFI 2.4GHz terminal products.

2.Product Features

- a. Maximum gain 3.0dbi
- b. High radiation efficiency
- c. Simple assembly
- d. Compliant with IEEE 802.11b/g/n standards



Figure 1 Antenna RFB0022

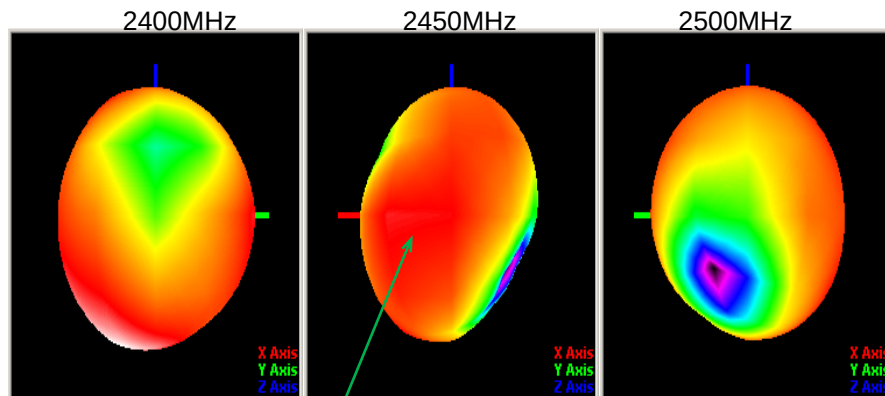
3.Specifications

Standard 标准	IEEE 802.11a/b/g/n
Frequency 频率范围	2.4~2.5GHz
Impedance 特性阻抗	50Ω
S.W.R. 电压驻波比	2:1
Antenna Gain 增益	3.0±0.5dBi
Polarization 极化形式	Linear
Max Input Power 最大输入功率	1W(30dBm)
Cable Type 射频线型号	/
Antenna Dimensions 尺寸	15mm×12.6mm×5mm

4. Antenna radiation pattern

The antenna is installed in the motherboard of the 170*115*2.2mm model, made of ABS plastic. The test is placed at both ends of the far-field darkroom of 7m×3m×3m, with a distance of 3 meters between them. Then the prototype is established for communication testing. The test prototype rotates 360 degrees at a rotation angle of 30 degrees, and the overall space is divided into three three-dimensional directions of x, y, and z for testing.

a. 3D radiation field

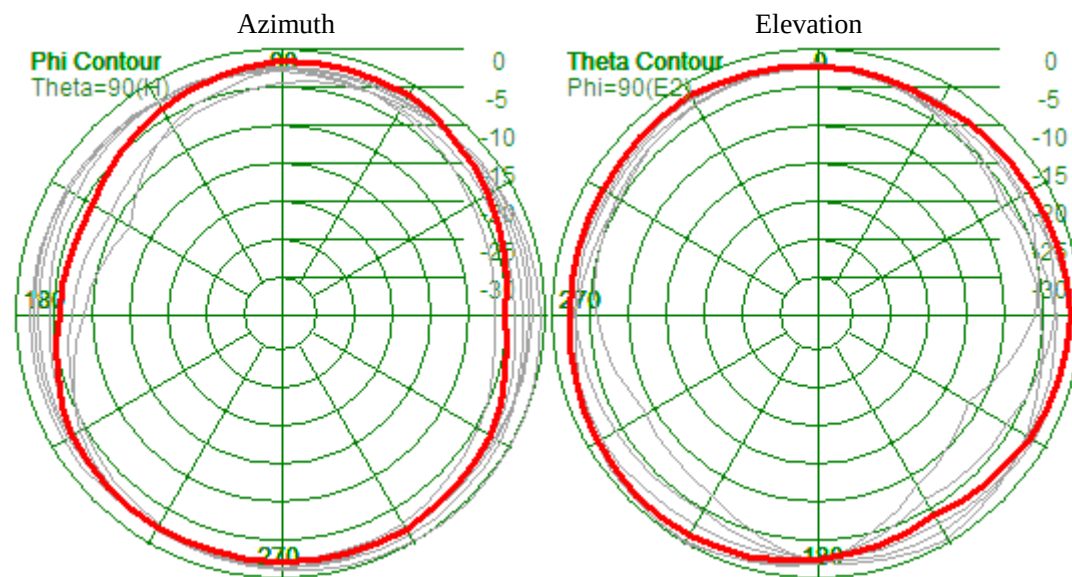


3.0dBi

Figure 2

Antenna RFB0022 radiation field(3D)

b. 2D radiation field



2450MHz

Figure 2

Antenna RFB0022 radiation field(2D)

5.Antenna size

