# Onboard BT F-type Antenna Product specification

Manufacturer: ShenZhen RoyQueen Audio Technology Co.,Ltd

Address: The 2nd Floor,Shenhui Industrial Park,No.1010 Bulong Road,Longhua New District,Shenzhen

Product Name: Onboard BT F-type Antenna

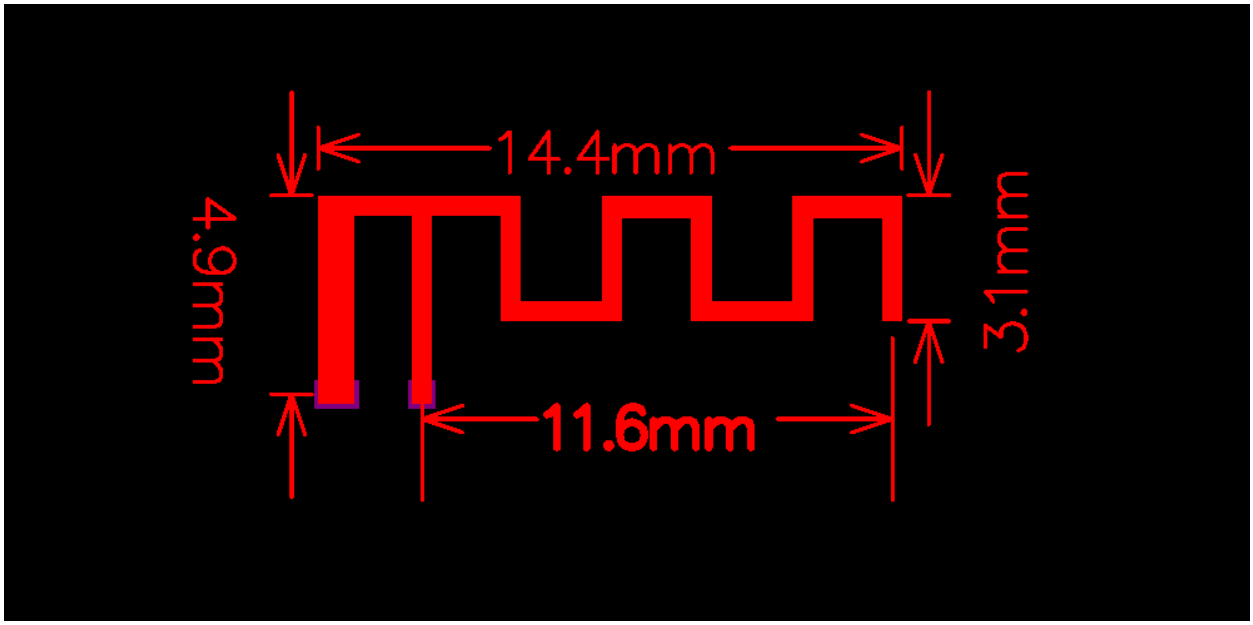
**Quick Reference Date**

| | | |
|---|---|---|
| | Antenna module on the system board | |
| Frequenc Range | 2400 ~ 2500MHz | |
| Ant. Port Input Pwr. (dBm) | 0 (Typ. BT class 2 output power) | |
| Tot. Rad. Pwr. (dBm) | -1.2 (Input pwr – loss pwr) | |
| Peak EIRP(dBm) | 1.2 | |
| Directivity (dBi) | 1 (all direction antenna) | |
| Efficiency (dB) | 6 0.2 % | |
| Gain (dBi) | 1.9 (Avg Gain XY-plane) | |
| Maximum Power (dBm) | 1.7 (XY-plane) | |
| Minimum Power (dBm) | -4 XY-plane) | |
| Avg. Power (dBm) | -0.5(XY-plane) | |
| Input Impendence(ohm) | 50 | |
| Polarization Type | V ertical & Horizontal | |
| V . S .W . R | < 1.4 | |

All the technical data and information contained herein are subject to change without prior notice

## Antenna Layout & module on the system board

Antenna type: PCB Antenna:

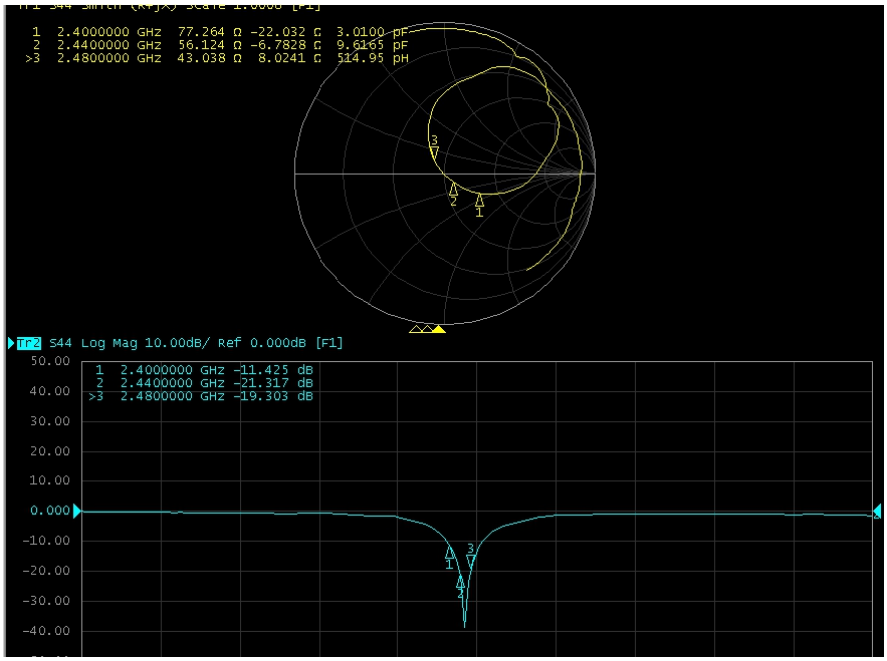


Antenna Gain:

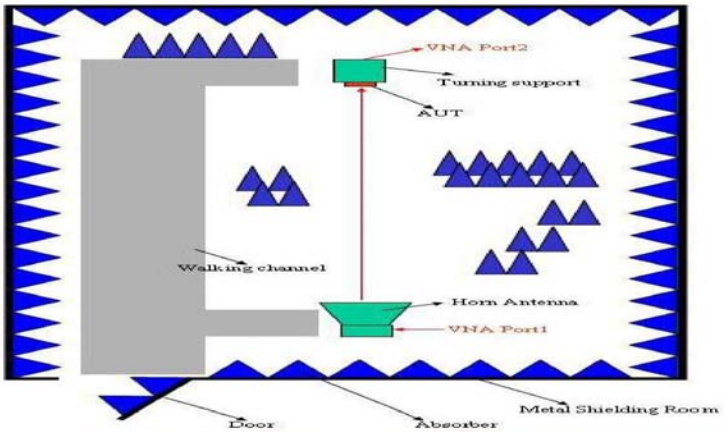
Gain Table

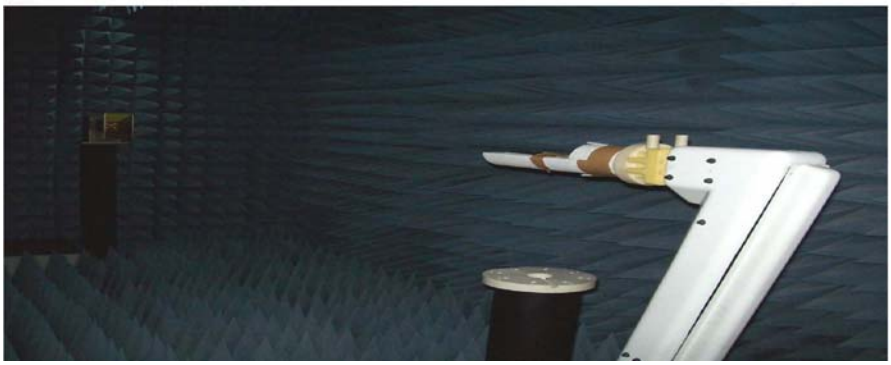
| Unit in dBi @2.44GHz | XY-plane | | XZ-plane | | YZ-plane | | Efficiency |
|---|---|---|---|---|---|---|---|
| | Peak | Avg. | Peak | Avg. | Peak | Avg. | |
| Module Board | 1.7 | 0 | 1.9 | 0 | 1.1 | 0 | 6 0.2 % |

Retum Loss:




The Environment of Antenna Radiation Pattem:



3D radiation pattern diagram: