

aiTalk 2.4GHz BLE Antenna Specification

Product Overview

Item	Description
Product Name	aiTalk BLE Antenna
Model Number	aiTalk-BLE-2400
Application Scenarios	aiTalk BLE Series Devices, Bluetooth 5.0/5.1/5.2 Enabled Products, IoT Sensors, Wearable Devices, Smart Home Gadgets
Antenna Technology	Planar Inverted-F Antenna (PIFA)

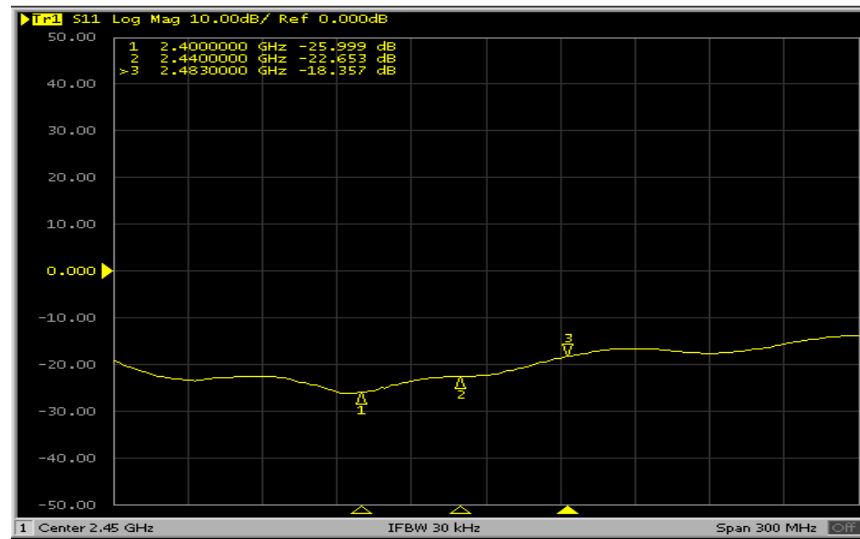
Electrical Specification

Parameter	Specification
Freq Range	2400-2483MHz
Gain	1dBi (Max)
Return Loss	$\leq -10\text{dB}$
Impedance	50 ohm
VSWR	$\leq 1.7:1$
Polarization	Linear Polarization
Antenna Efficiency	$\geq 30\%$
Maximum Input Power	2 Watts (Continuous Wave)
Bandwidth	$\geq 83\text{ MHz}$
Operation Temperature	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$

Electrical Characteristics

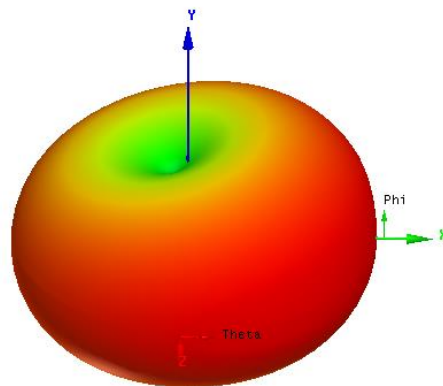
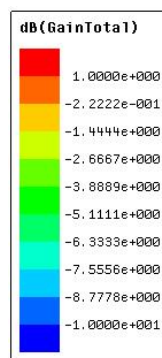
1:Return Loss

Frequency (MHz)	S11 (dB)
2400	-25.9
2440	-22.6
2483	-18.3

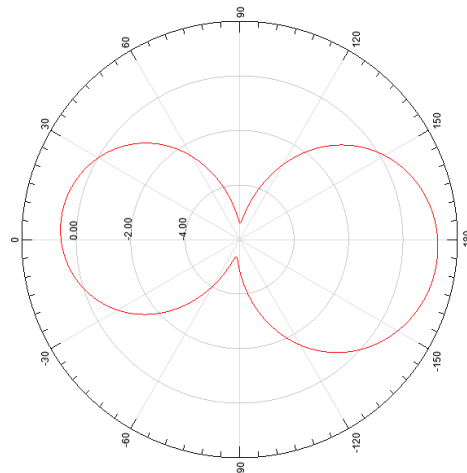


2:Radiation

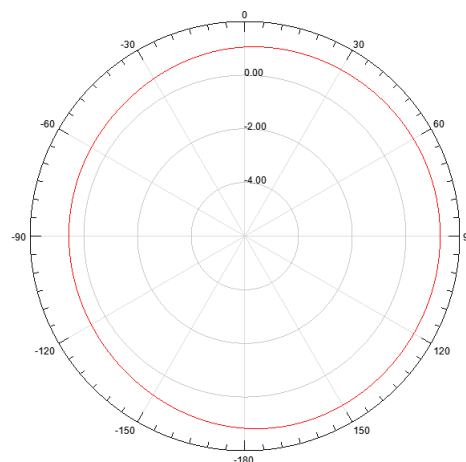
Frequency	2.45GHz
Peak gain	1dBi



3: V-Plane



H-Plane



Antenna Configuration

PIFA Dimensions (Length×Width): 10 mm × 4mm

