

Wi-Fi/Bluetooth Chip Antenna

Engineering Specification

Product description: 2.4G terminal Antenna

Number : LF-ANT-2400-2.5B

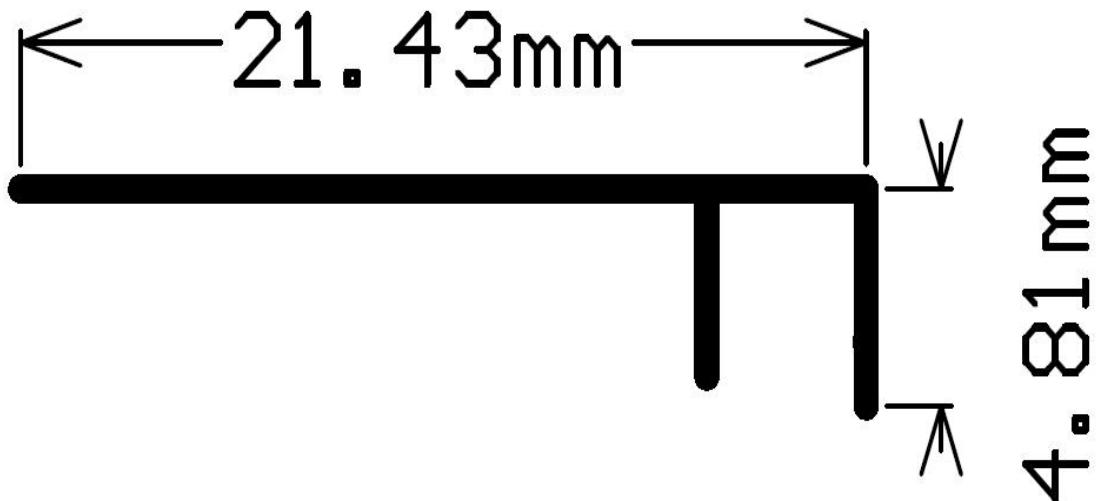
Issue date : 2019-07-09

Note : 2400-2500MHZ,ROHS

Product description

- *ISM 2.4 GHz applications
- *ZigBee/BLE applications
- *Bluetooth earphone systems
- *Hand-held devices when WiFi / Bluetooth functions are needed, e.g., Smart phones
- *IEEE802.11 b/g/n
- *Wireless PCMCIA cards or USB dongles

Layout Guide & Electrical Specifications



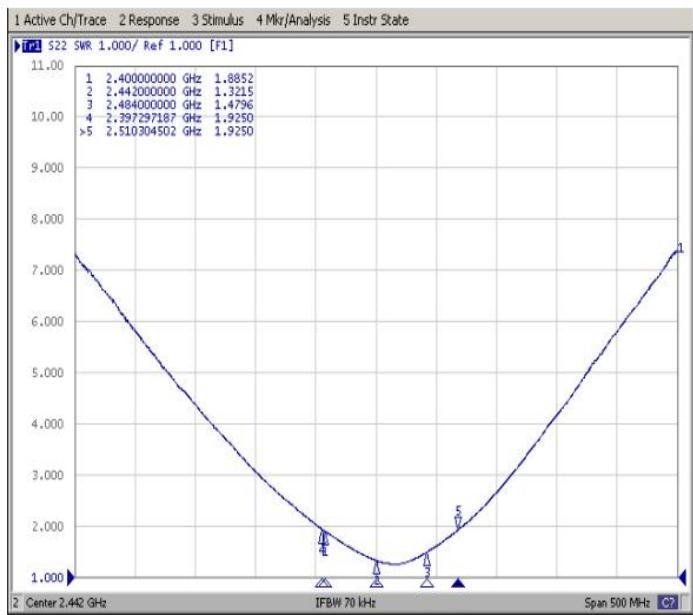
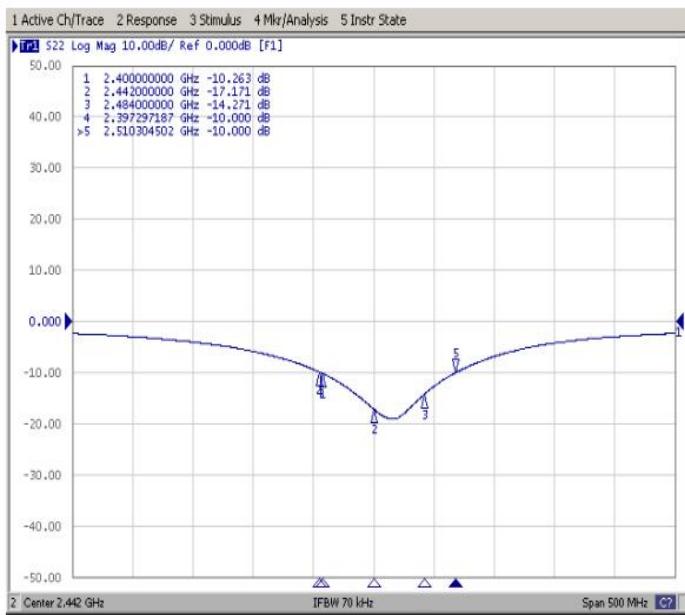
Electrical Specifications (Evaluation board dimensions: FR4 1.0MM 15.2 x 40.2 mm²)

Characteristics	Specifcations	unit
Outline dimensions	21.43mm*4.81mm	mm
Working Frequency	2400-2500	MHZ
VSWR(@centerfrequency)*	2.0 Max.	
Characteristic Impedance	50	Ω
Polarization	Linear Polarization	
Peak Gain	0.9 (typical**)	(@2450 MHz)/dBi
Efficiency	60 (typical**)	(@2450 MHz)%

Return Loss & VSWR

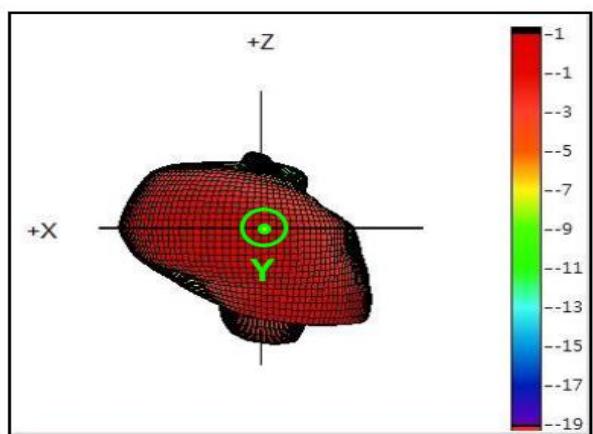
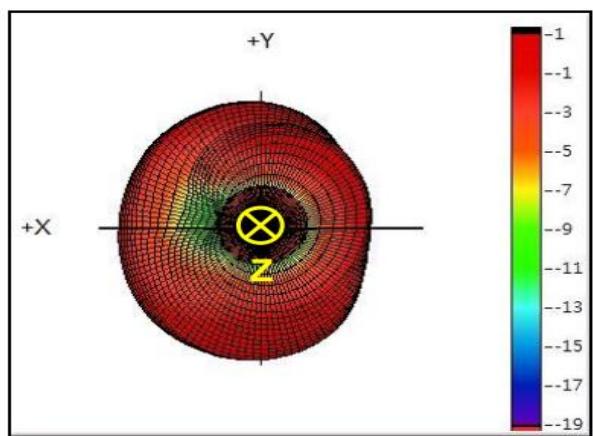
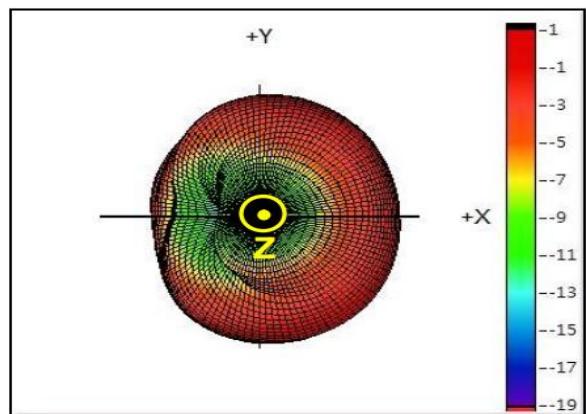
Return Loss (S_{11})

VSWR (S_{11})



3D Radiation Gain Pattern (with 50 x 40 mm² Evaluation Board)

3D Radiation Gain Pattern @ 2450 MHz (Unit: dBi)



Efficiency Table

Frequency(MHz)	2400	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472	2484	2500
Efficiency(dB)	-2.7	-2.5	-2.4	-2.4	-2.3	-2.2	-2.2	-2.2	-2.3	-2.4	-2.5	-2.6	-2.6	-2.6	-2.7	-2.9
Efficiency(%)	53.4	56.3	57.3	57.4	59.2	59.7	60.5	60.7	58.8	56.9	56.7	55.3	54.7	55.4	53.7	51.8
Peak Gain(dBi)	0.4	0.6	0.7	0.7	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.6	0.7	0.6	0.5	0.4

Efficiency vs. Frequency

