

Wi-Fi/Bluetooth Chip Antenna

Engineering Specification

Product description: 2.4G terminal Antenna

Number : LF-ANT-2400-2.5A

Issue date : 2019-07-09

Note : 2400-2500MHZ,ROHS

Manufacturer: Huizhou Oufan Industrial Co., Ltd.

Product description

*ISM 2.4 GHz applications

*ZigBee/BLE applications

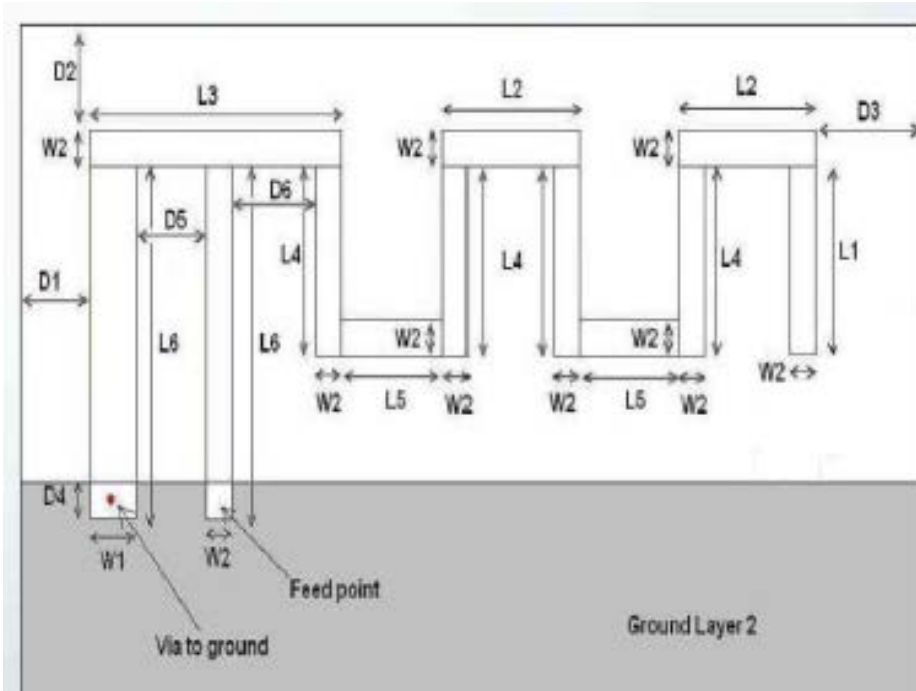
*Bluetooth earphone systems

*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



L1	2.64MM
L2	2.70MM
L3	5.0MM
L4	2.64MM
L5	2.0MM
L6	4.90MM
W1	0.90MM
W2	0.5MM
D1	0.5MM
D2	0.3MM
D3	0.3MM
D4	0.5MM
D5	1.40MM
D6	1.70MM

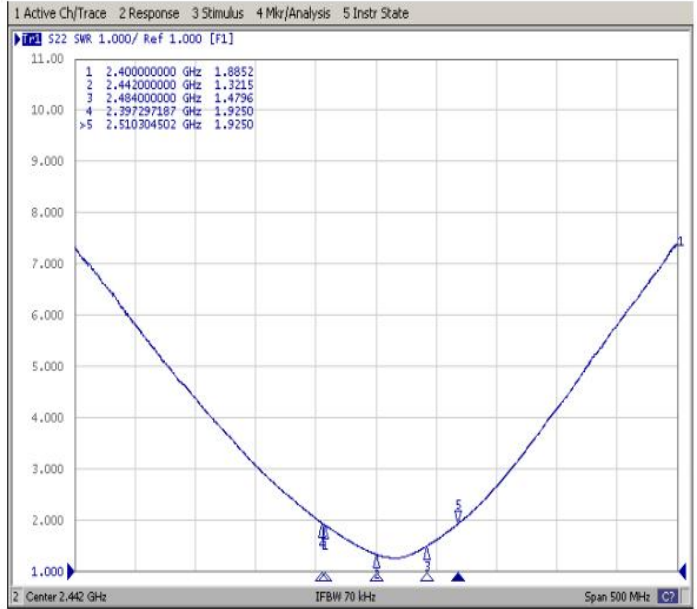
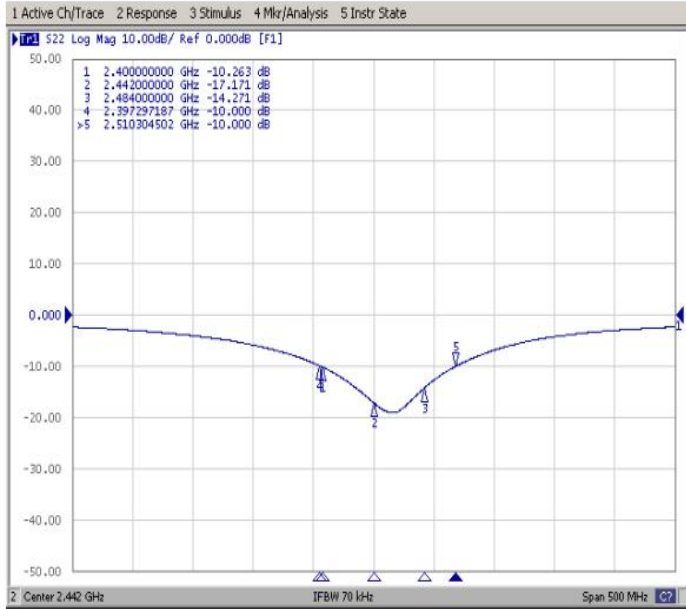
Electrical Specifications (Evaluation board dimensions: FR4 1.0MM 15.2 x 40.2 mm²)

Characteristics	Specifcations	unit
Outline dimensions	14.4mm*5.4	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)%

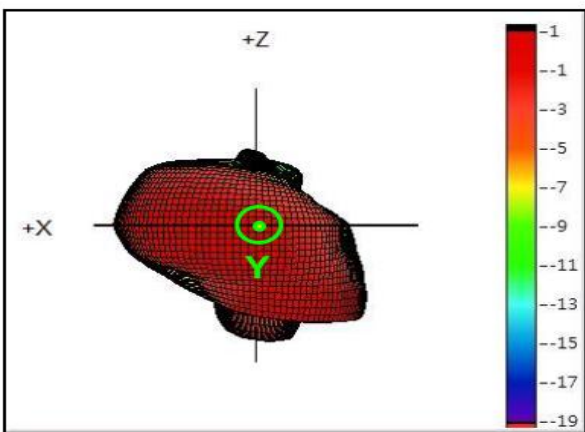
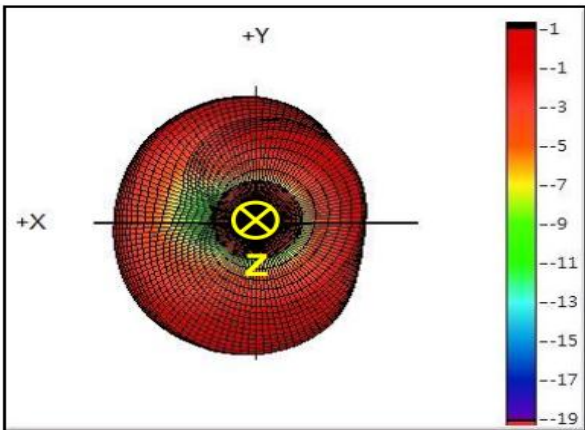
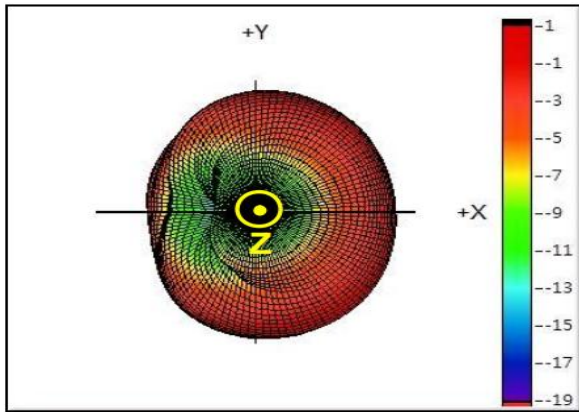
Return Loss & VSWR

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

