

Bluetooth antenna of PCB on-board specification

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Document Type: 2.4GHz antenna of PCB on-board

Document Version: V1.0

Release Date: Dec. 15, 2024

Antenna manufacturer: Shenzhen Feasycom Co.,Ltd

address:

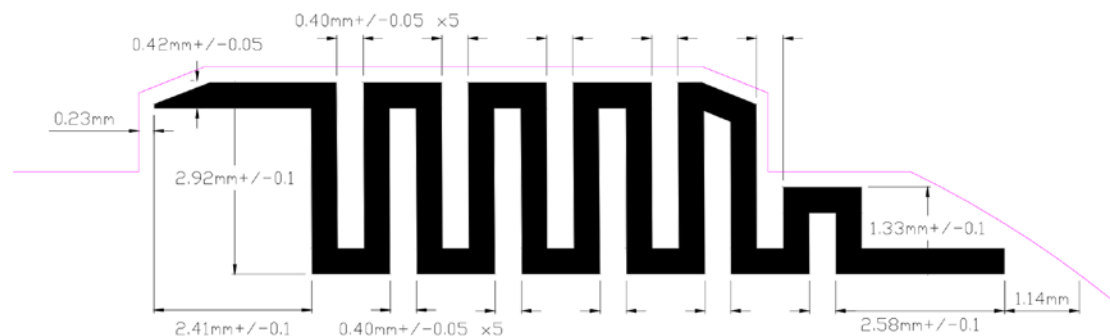
Rm 508, Building A, Fenghuang Zhigu, No.50, Tiezai Road, Xixiang, Baoan District, Shenzhen, 518102, China

Feasycom Technology Co.,Ltd.

Telephone: 86-755-27924639

www.feasycom.com

2, Spec Drawing



Ground copper

3, Specification

Product Number: 2.4GHZ coil antenna

Sample Photo:



A. Electrical Characteristics

Frequency	2400 ~ 2500 MHz
S.W.R.	≤ 2.0
Gain	2.0 dBi
Efficiency	~ 50%
Polarization	Linear
Impedance	50 Ohm

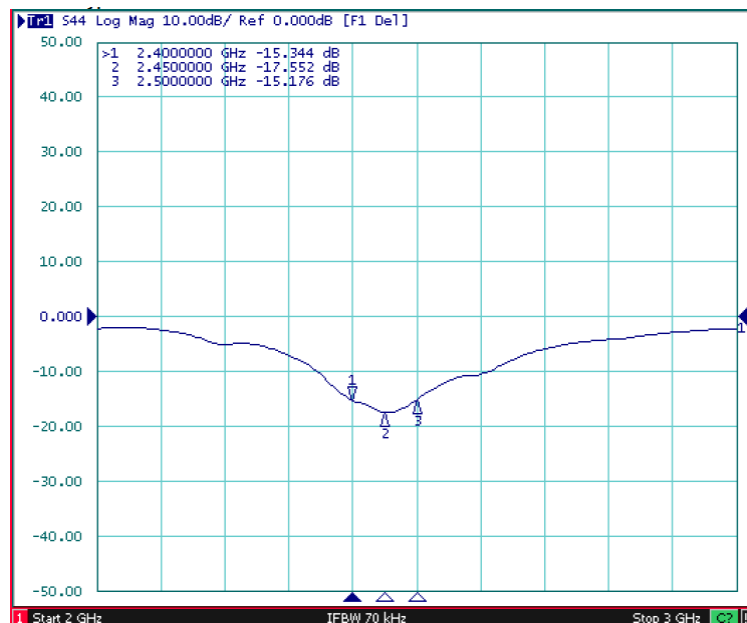
B. Material & Mechanical Characteristics

Material of Radiator	Gold-plated copper
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C. Environmental

Operation Temperature	- 40°C ~ + 85°C
Storage Temperature	- 40°C ~ + 105°C

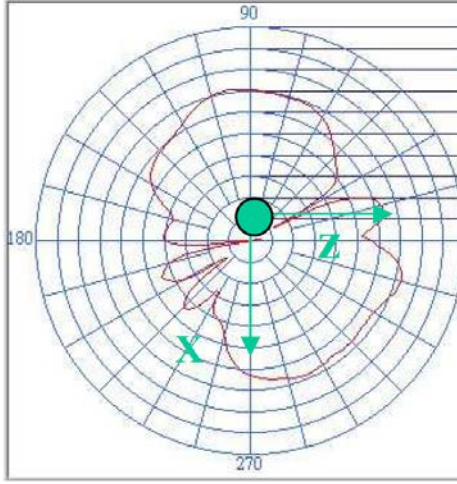
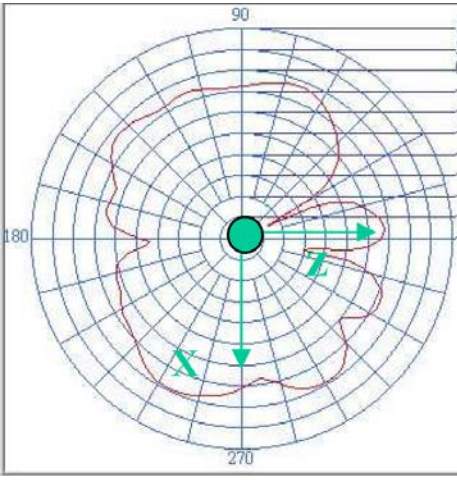
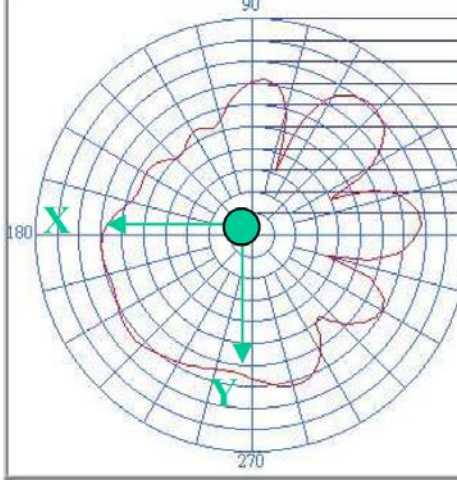
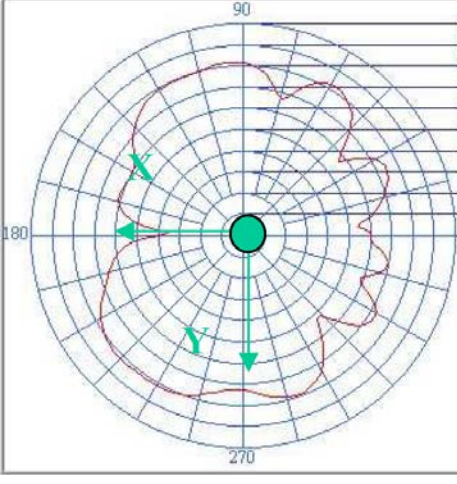
5, Return Loss



6, Radiation Pattern

Radiation Pattern and Gain were dependent on measurement board design. The specification of coil antenna was measured based on the PCB size and installation position as shown in the below figure Test Board.

2400MHz	Vertical	Horizontal
Y - Z Plane Average Gain=1.19 dBi		
	Peak Gain = 2 dBi Average Gain = 0.75 dBi	Peak Gain= -1.33 dBi Average Gain=-8.7 dBi

<p>X - Z Plane</p> <p>Average Gain=-2.91dBi</p>	 <p>Peak Gain= -3.71 dBi Average Gain= -8.76dBi</p>	 <p>Peak Gain= -0.29 dBi Average Gain= -4.19dBi</p>
<p>X - Y Plane</p> <p>Average Gain=-0.95dBi</p>	 <p>Peak Gain= 0.77 dBi Average Gain= -5.86dBi</p>	 <p>Peak Gain= 1.35 dBi Average Gain= -2.62 dBi</p>