

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:

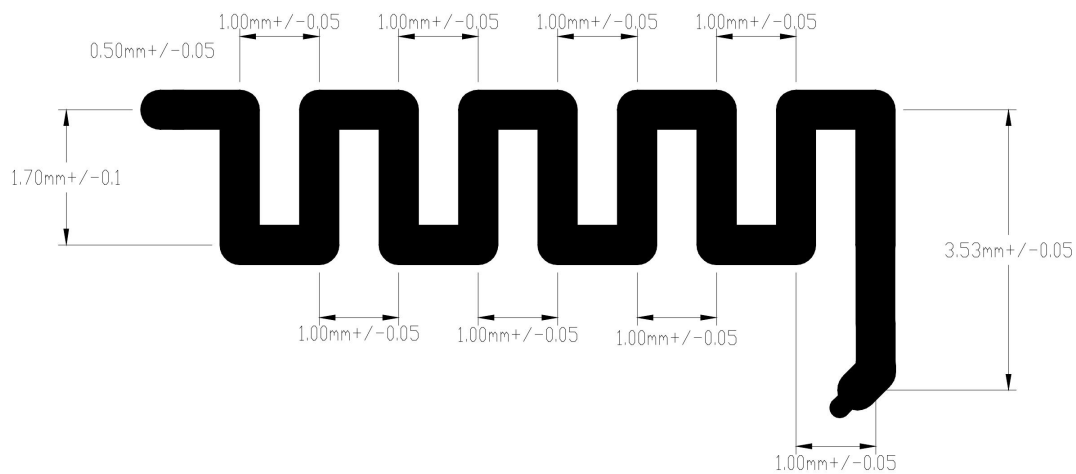
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2, Spec Drawing



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

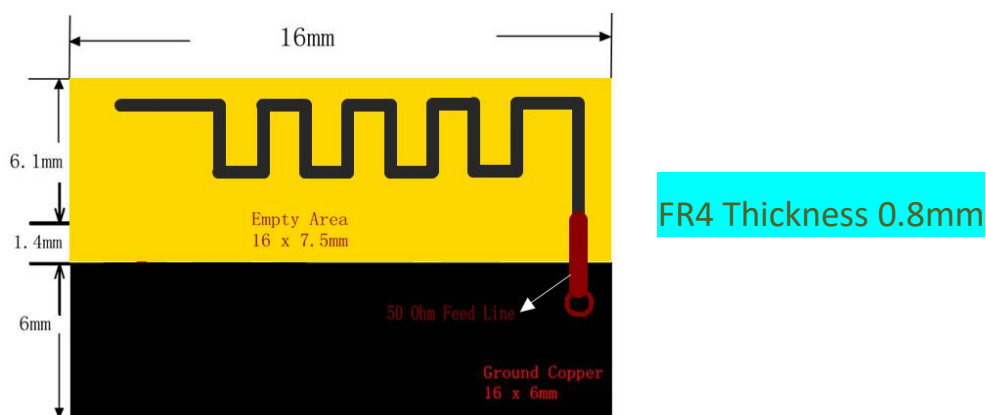
B. Material & Mechanical Characteristics

Material of Radiator	Gold-plated copper
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C. Environmental

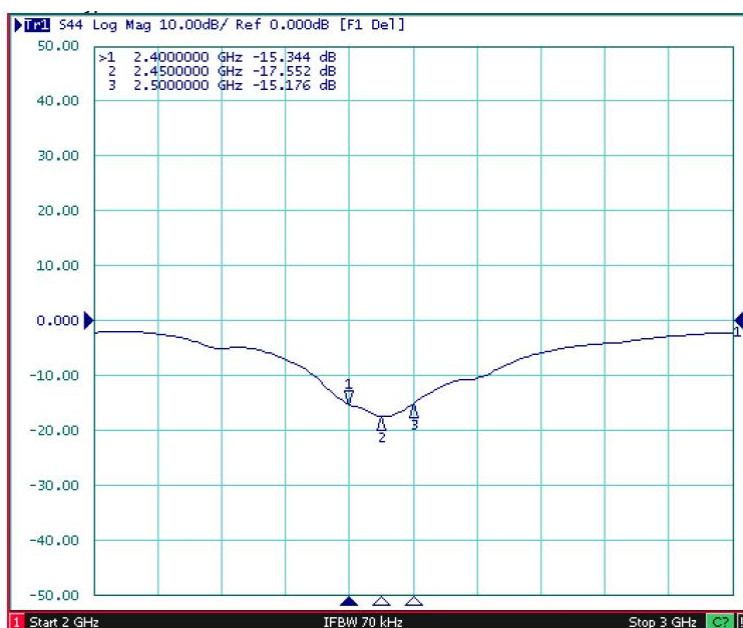
Operation Temperature	- 40°C ~ + 85°C
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4, Antenna On Test Board



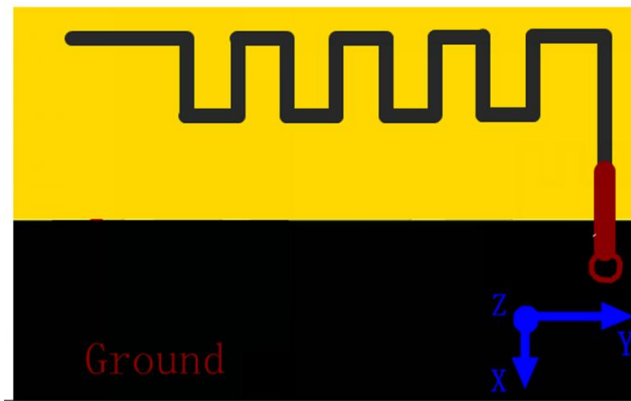
(此天线样式仅示意，实际天线样式以尺寸图为准)

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.



(此天线样式仅示意，实际天线样式以尺寸图为准)

	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
X - Z Plane Average Gain=-2.91d Bi		
	Peak Gain= -3.71 dBi Average Gain= -8.76dBi	Peak Gain= -0.29 dBi Average Gain= -4.19dBi

