

Bluetooth antenna of PCB on-board specification

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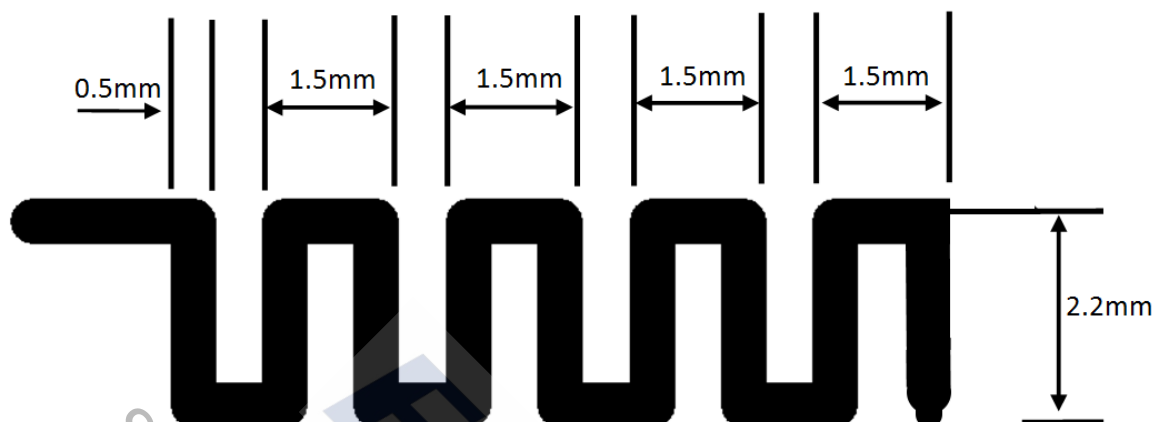
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2, Spec Drawing

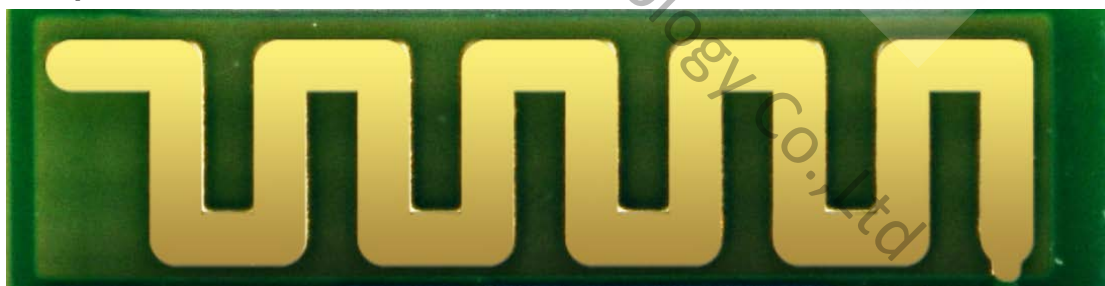


Ground Copper

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

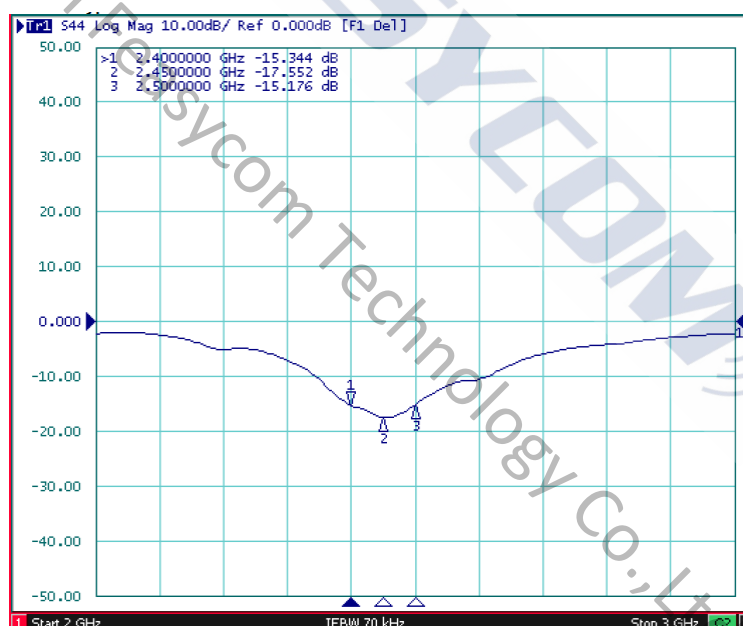
Material of Radiator	Gold-plated copper
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C. Environmental

Operation Temperature	- 40℃ ~ + 85℃
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Storage Temperature	- 40℃ ~ + 105℃
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5, Return Loss



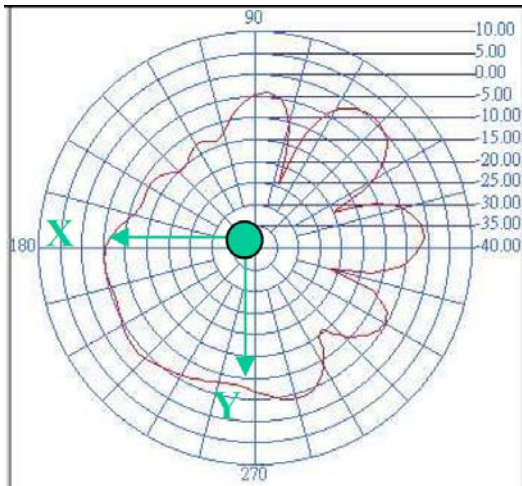
6, Radiation Pattern

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.

	Vertical	Horizontal
2400MHz Average Gain=1.19 dBi		
	Peak Gain = 2.00 dBi Average Gain = 0.71 dBi	Peak Gain = -1.37 dBi Average Gain = -8.6 dBi
2450MHz Average Gain=-2.91dBi		
	Peak Gain= -3.76 dBi Average Gain= -8.72dBi	Peak Gain= -0.25 dBi Average Gain= -4.24 dBi

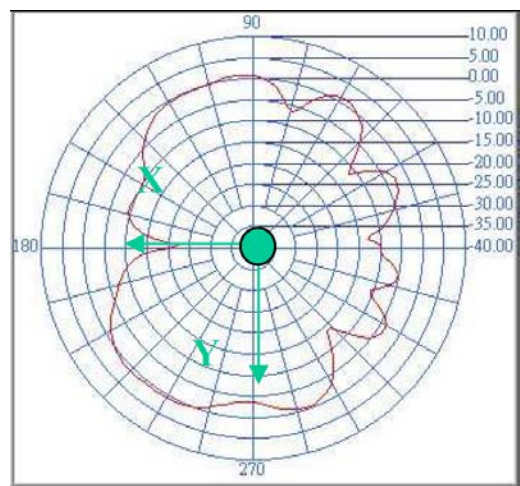
2500MHz

Average
Gain=-0.95 dBi



Peak Gain= 0.76 dBi

Average Gain= -5.81dBi



Peak Gain= 1.37 dBi

Average Gain= -2.67 dBi

Freq (MHz)	Peak Gain (dBi)	Average Gain (dBi)
2400	2.00	1.19
2450	-3.76	-2.91
2500	0.76	-0.95