

Bluetooth antenna specification

FSC-ANT_H

Manufacturer: Shenzhen Feasycom Co., LTD

1, Index

Item	Content	Page	Remark
1	Index	1	
2	Spec Drawing	2	
3	Specification	2	
4	Antenna On Test Board	3	
5	Return Loss	3	
6	Radiation Pattern	3	

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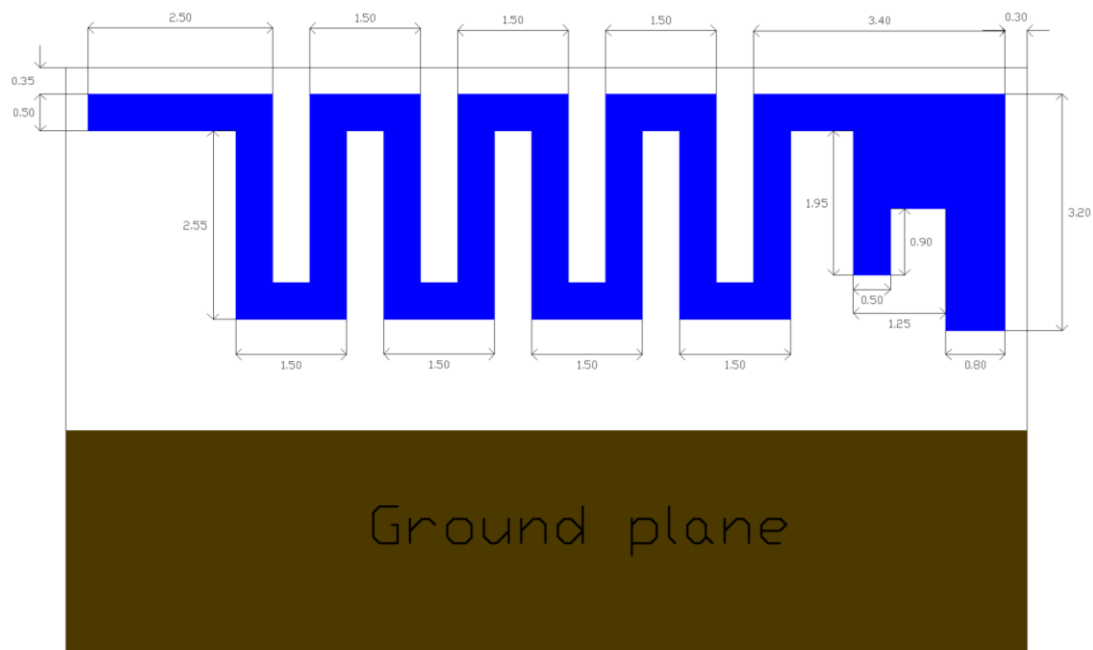
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www.feasycom.com

Shenzhen Feasycom Co., LTD

2, Spec Drawing

Unit: mm



3, Specification

Product Number: 2.4GHZ PCB antenna

Sample Photo:



A. Electrical Characteristics

Frequency	2400 ~ 2500 MHz
S.W.R.	≤ 2.0
Gain	2.0 dBi
Efficiency	~ 40%
Polarization	Linear
Impedance	50 Ohm

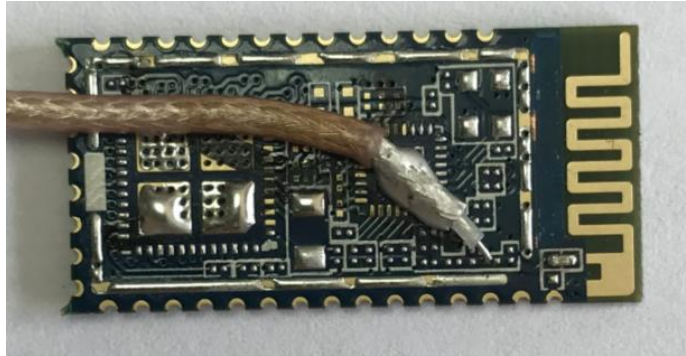
B. Material & Mechanical Characteristics

Material of Radiator	copper
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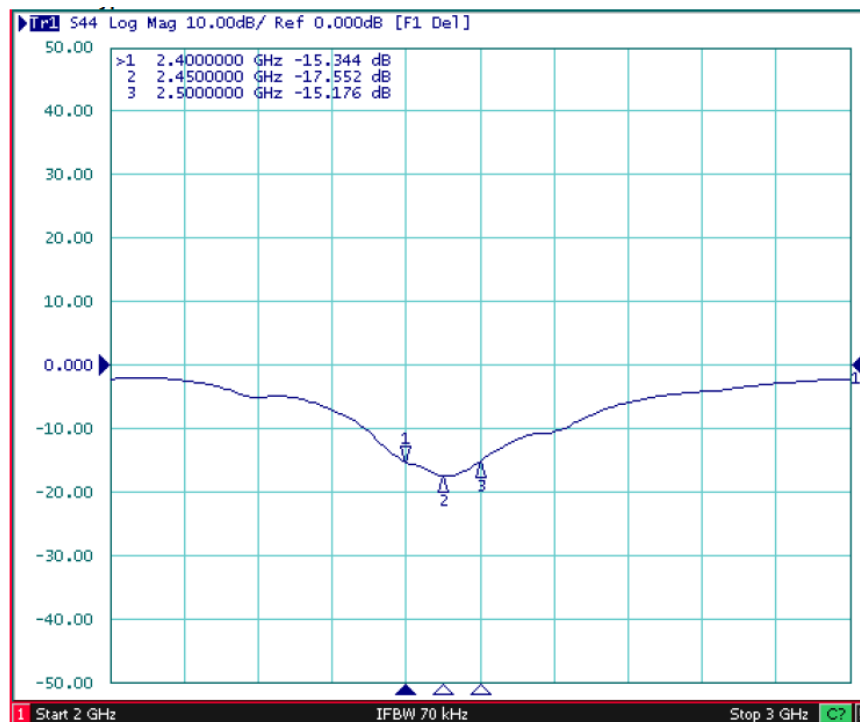
C. Environmental

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

4, Antenna On Test Board

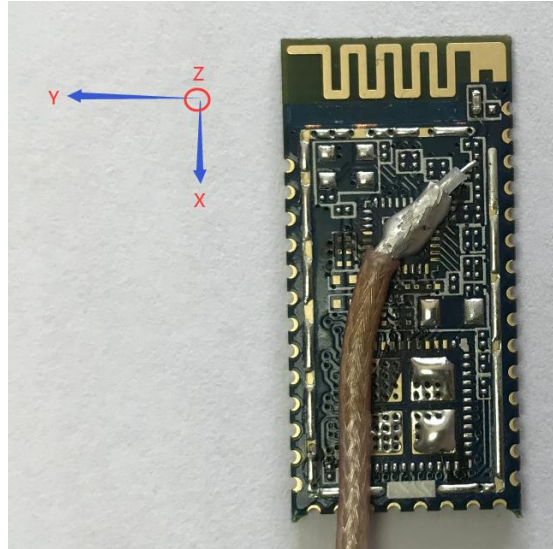


5, Return Loss

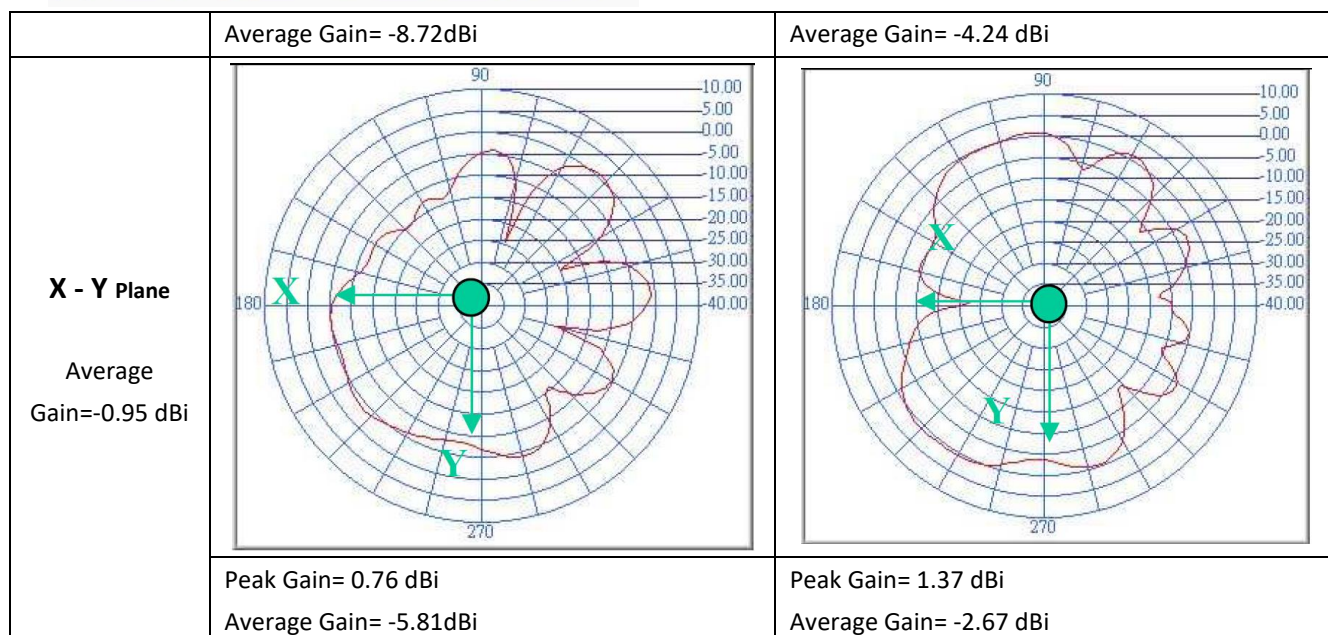


6, Radiation Pattern

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



	Vertical	Horizontal
Y - Z Plane Average Gain=1.86 dBi		
	Peak Gain = 2.00 dBi Average Gain = 0.71 dBi	Peak Gain= -1.37 dBi Average Gain= - 4.6 dBi
X - Z Plane Average Gain=-2.91dBi		
	Peak Gain= -3.76 dBi	Peak Gain= -0.25 dBi



Test Result:

Frequency VNA	E Total. dB(dB)	Efficiency
2400MHz	0.673644	39.76%
2410MHz	1.24355	49.12%
2420MHz	0.235654	41.22%
2430MHz	-0.14259	34.11%
2440MHz	0.34127	37.16%
2450MHz	1.003269	41.39%
2460MHz	2.00305	50.08%
2470MHz	0.636894	40.92%
2480MHz	-0.203466	35.56%
2490MHz	-0.435345	33.52%
2500MHz	0.703435	39.25%