

Bluetooth antenna of PCB on-board specification

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	

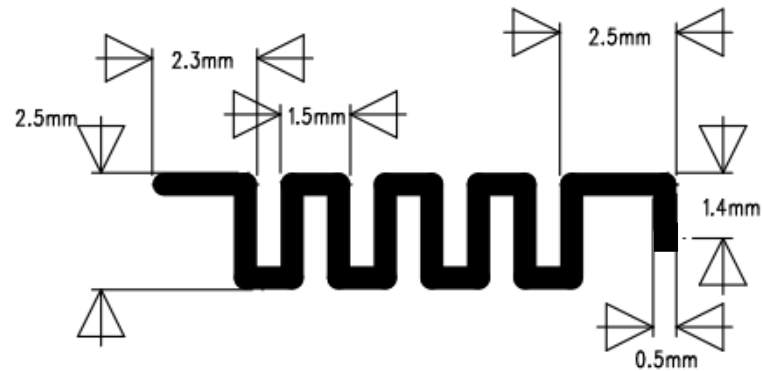
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Shenzhen Feasycom Co., LTD

Telephone: 86-755-27924639

www.feasycom.com

2, Spec Drawing



Ground copper

3, Specification

Product Number: 2.4GHZ PCB antenna

Sample Photo:



A. Electrical Characteristics

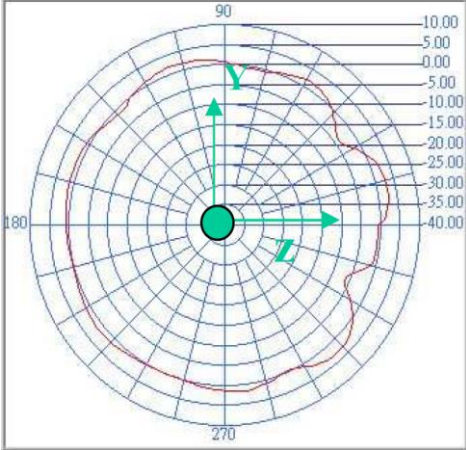
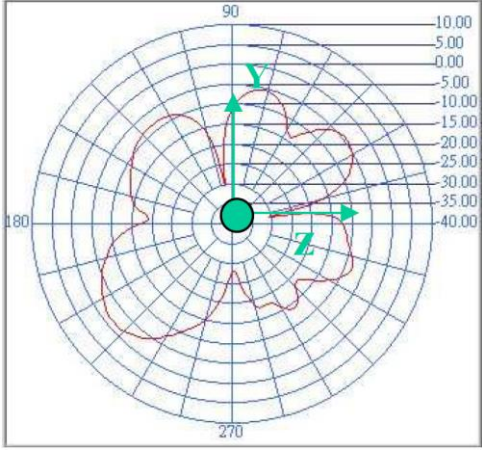
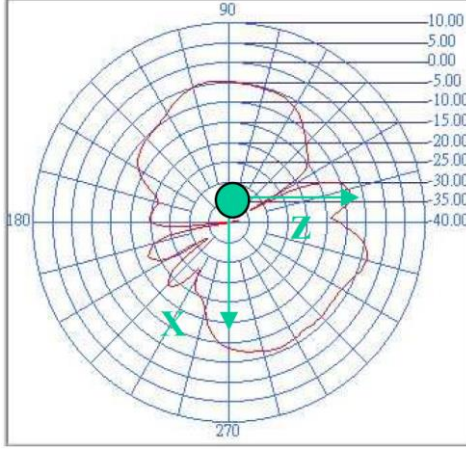
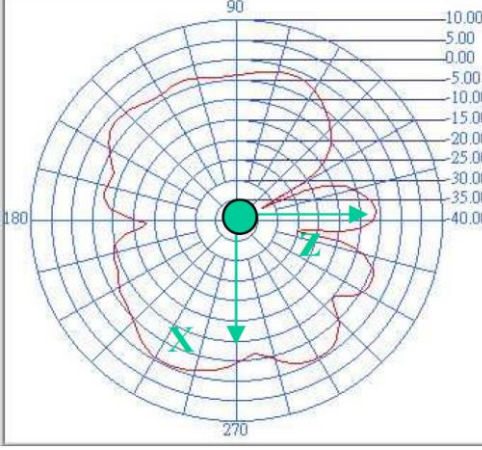
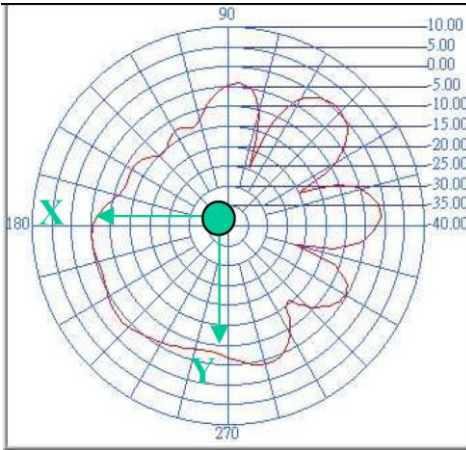
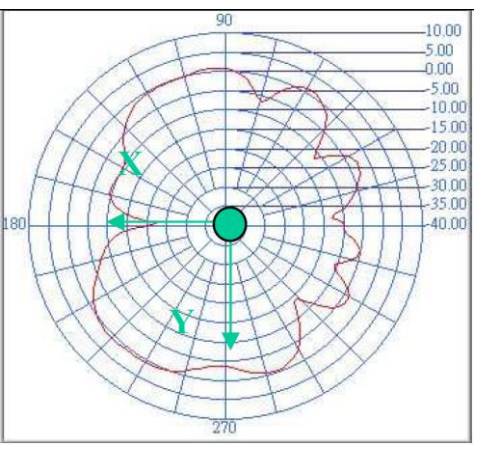
Frequency	2400 ~ 2500 MHz
S.W.R.	≤ 2.0
Gain	2dBi
Efficiency	~ 50%
Polarization	Linear
Impedance	50 Ohm

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

	Vertical	Horizontal
Y - Z Plane Average Gain=1.19 dBi		
	Peak Gain = 2.00 dBi Average Gain = 0.75 dBi	Peak Gain= -1.33 dBi Average Gain=-8.7 dBi
X - Z Plane Average Gain=-2.91dBi		
	Peak Gain= -3.71 dBi Average Gain= -8.76dBi	Peak Gain= -0.29 dBi Average Gain=-4.19dBi
X - Y Plane Average Gain=-0.95 dBi		
	Peak Gain= 0.77 dBi Average Gain= -5.86dBi	Peak Gain= 1.35 dBi Average Gain= -2.62 dBi

Test Result:

Frequency VNA	E Total. dB(dB)	Efficiency
2400MHz	0.693991	41.07%
2410MHz	1.14338	47.24%
2420MHz	0.223052	40.48%
2430MHz	-0.13659	33.93%
2440MHz	0.35326	37.82%
2450MHz	1.039894	42.77%
2460MHz	2.00801	50.67%
2470MHz	0.649809	41.93%
2480MHz	-0.215933	36.66%
2490MHz	-0.476639	34.62%
2500MHz	0.710741	40.22%