
Bluetooth antenna specification

Model: FSC-ANT_F_F1

Manufacturer: Shenzhen Feasycom Co., LTD

1, Index

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

Document Type: 2.4GHZ PCB antenna

Document Version: V1.0

Release Date: 2023-4-17

ShenZhen Feasycom Co.,Ltd

Address: Rm 508, Building A, Fenghuang Zhigu, No.50, Tiezai Road, Xixiang, Baoan

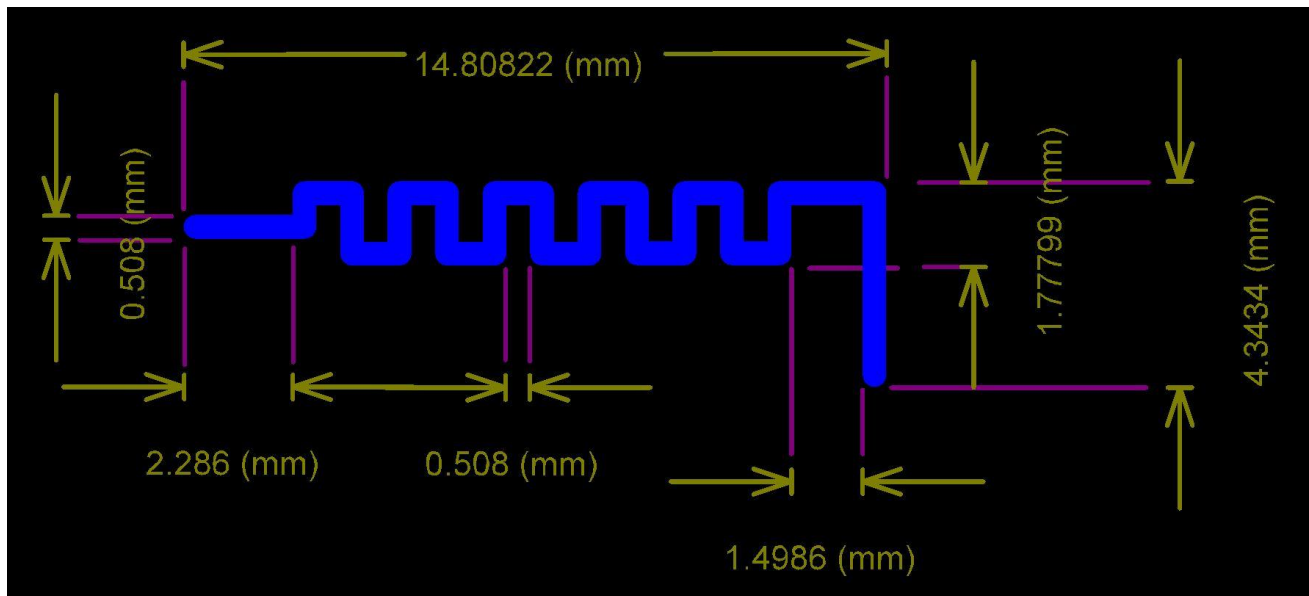
District, Shenzhen, 518102, China

Telephone: 86-755-27924639

www.feasycom.com

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
----------------------	--------

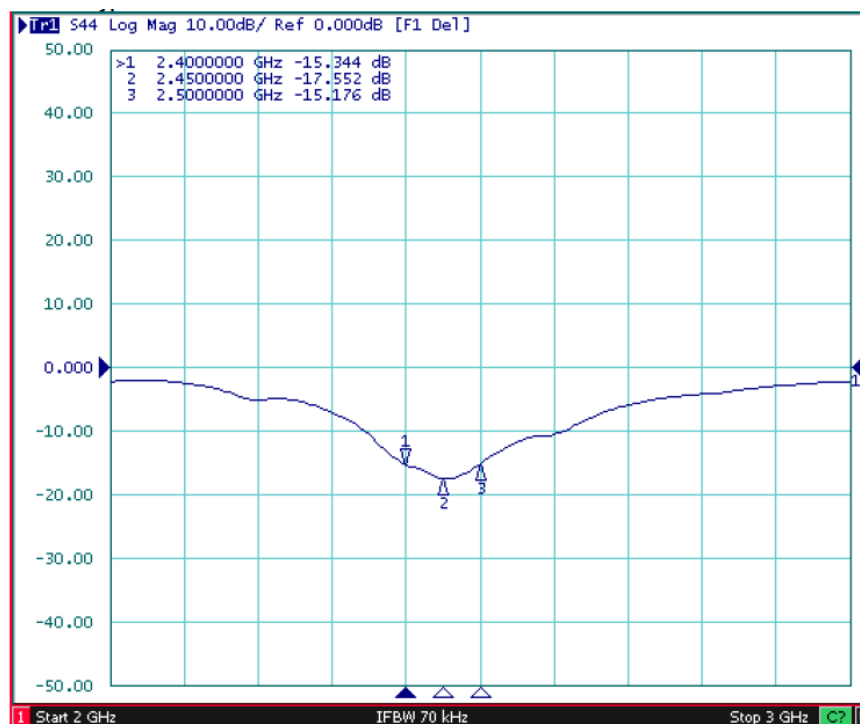
C. Environmental

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

4, Antenna On Test Board

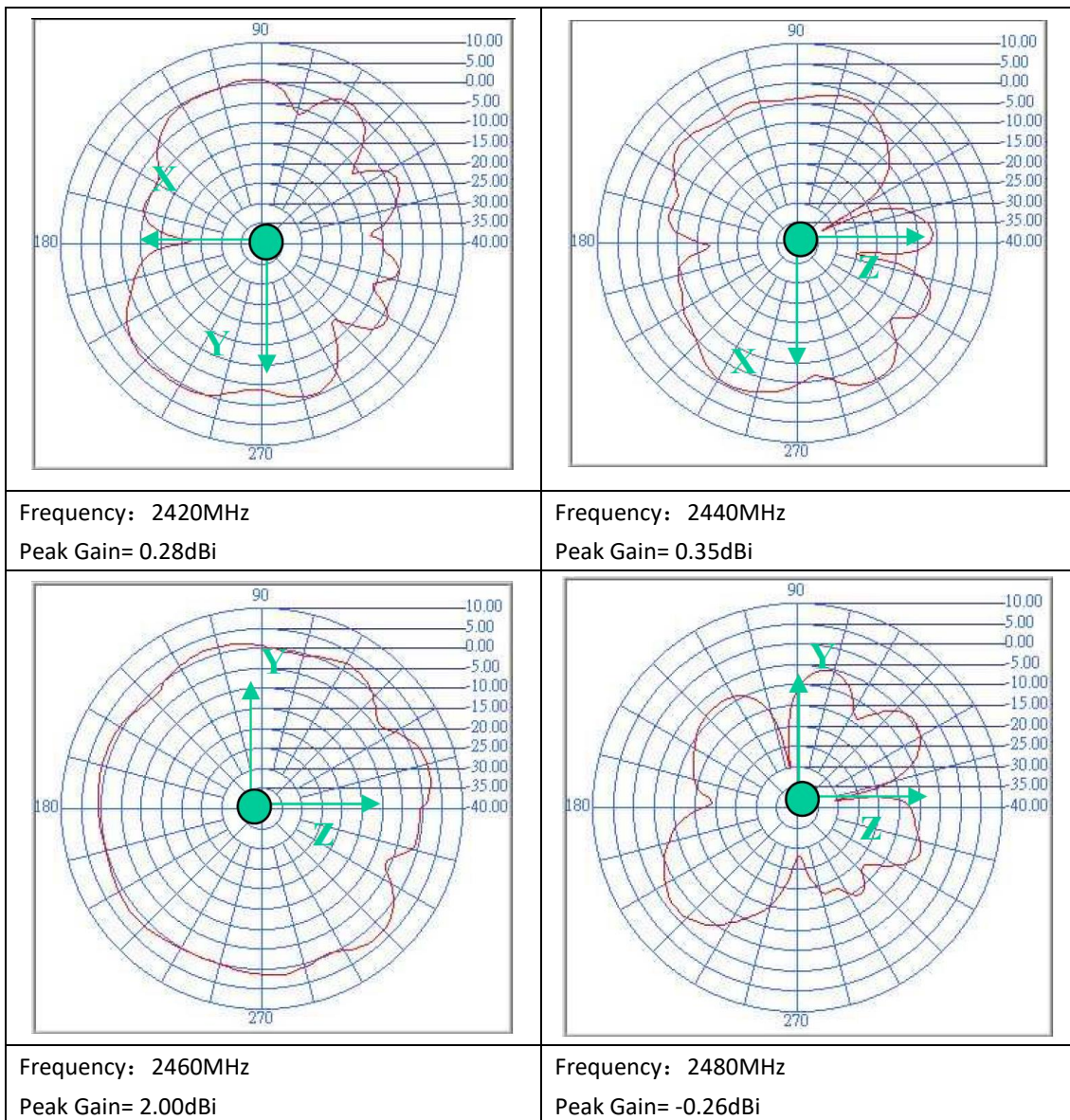


5, Return Loss



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.



Frequency VNA	E Total. dB(dB)	Efficiency
2400MHz	0.68	41.02%
2410MHz	1.15	47.04%
2420MHz	0.28	40.52%
2430MHz	-0.12	34.03%
2440MHz	0.35	37.82%
2450MHz	1.03	42.67%
2460MHz	2.00	50.27%
2470MHz	0.64	41.90%
2480MHz	-0.26	37.96%
2490MHz	-0.46	34.25%
2500MHz	0.72	41.32%