

Bluetooth antenna of PCB on-board specification

Model: SP01-ANT

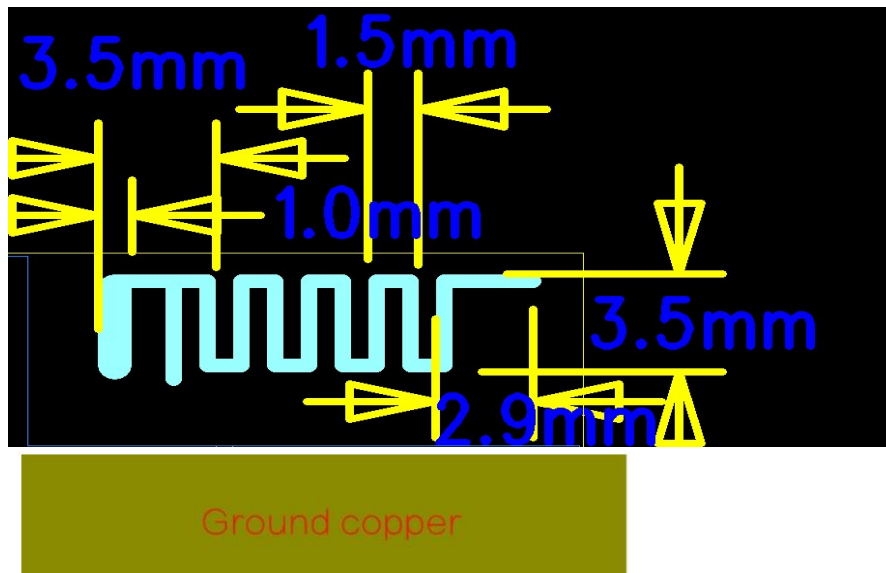
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Document Type: 2.4GHZ PCB antenna
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Manufacturer: Shenzhen zhongke wireless technology Co.Ltd
Address: 1st Floor, Building A, Zhonghe Industrial Park, Dalang Longhua, Shenzhen, China

2, Spec Drawing



3, Specification

Product Number: 2.4GHZ PCB antenna

A. Electrical Characteristics

Frequency	2400 ~ 2500 MHz
S.W.R.	≤ 2.0
Gain	-0.49 dBi
Efficiency	~ 35%
Polarization	Linear
Impedance	50 Ohm

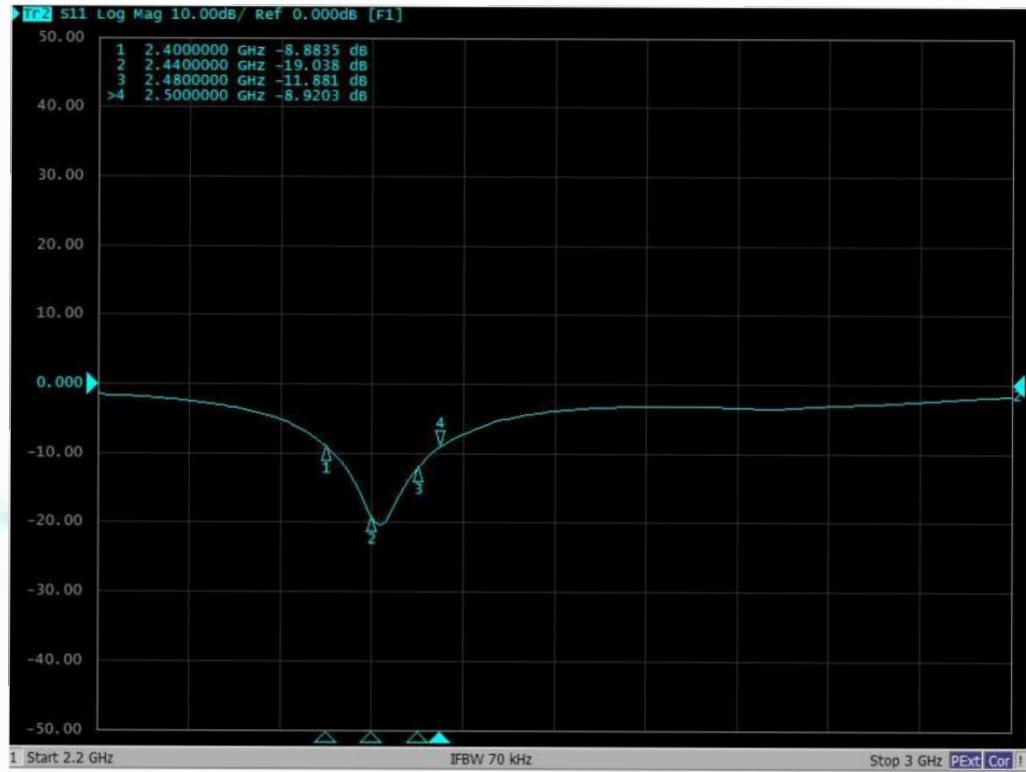
B. Material & Mechanical Characteristics

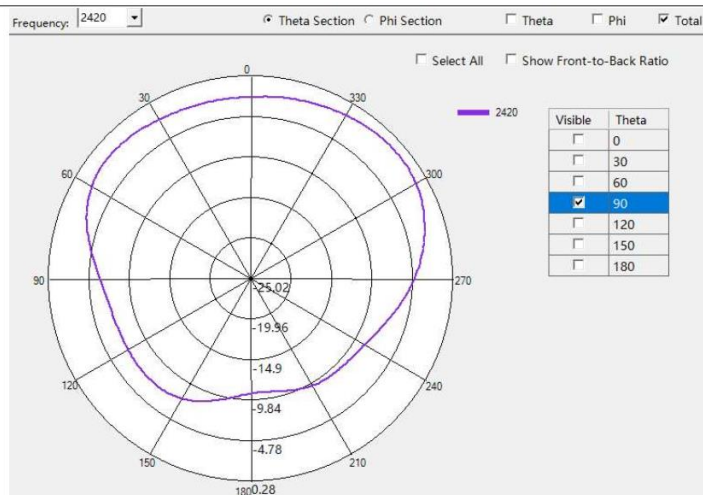
Material of Radiator	Gold-plated copper
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C. Environmental

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

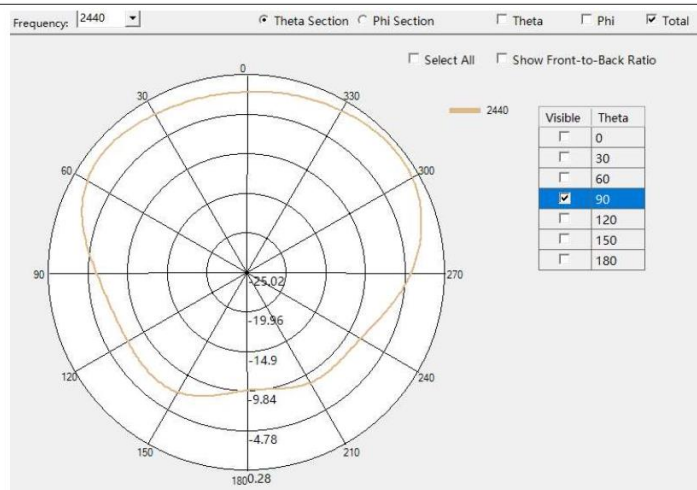
5, Return Loss





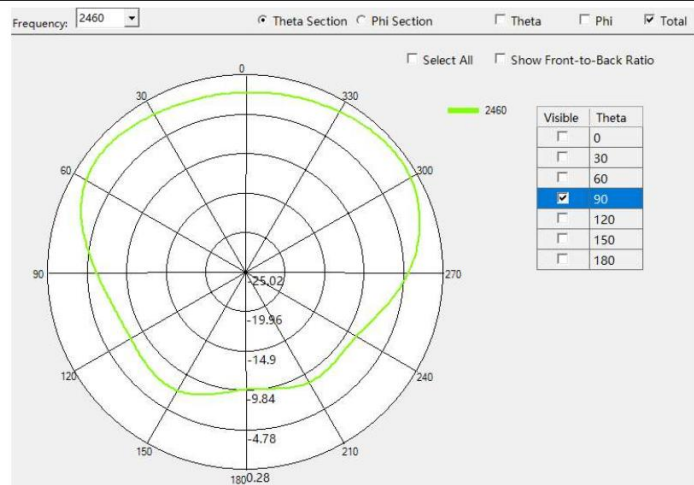
Frequency: 2420MHz

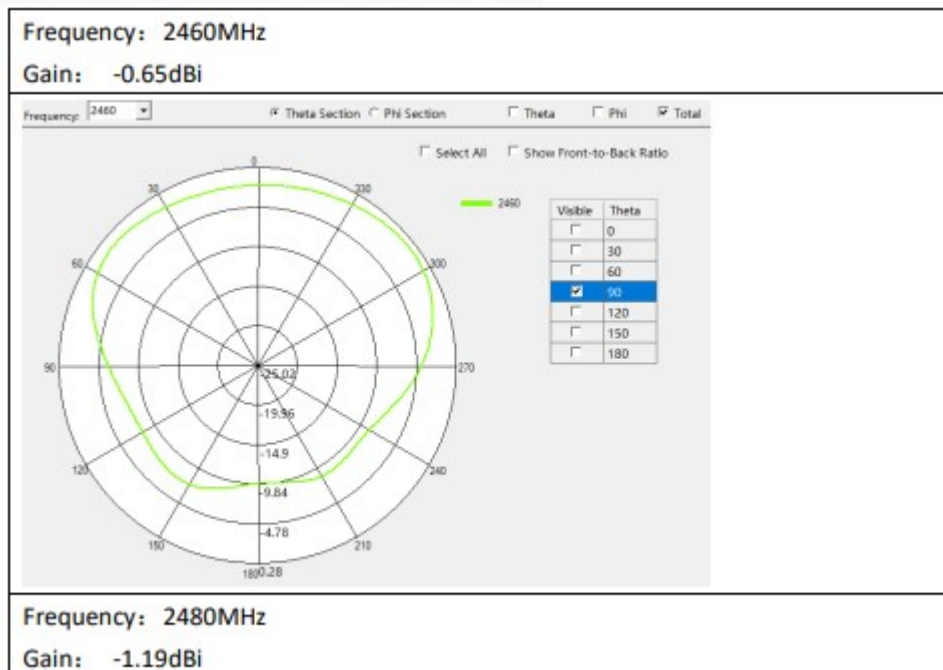
Gain: -1.14 dBi



Frequency: 2440MHz

Gain: -0.61 dBi





Test Result:

Frequency VNA	E Total. dB(dB)	Efficiency
2400MHz	-2.29	24.83%
2410MHz	-1.50	28.94%
2420MHz	-1.14	30.75%
2430MHz	-0.92	31.75%
2440MHz	-0.61	33.30%
2450MHz	-0.49	34.67%
2460MHz	-0.65	33.15%
2470MHz	-0.83	31.96%
2480MHz	-1.19	29.85%
2490MHz	-1.52	27.58%
2500MHz	-1.71	26.26%