

Document Number:

Specification For Approval

Customer Name:

Customer:

Supplier Name:

Customer:

Suzhou Capsit Electronic Technology Co., Ltd.

Suzhou Capsit Electronic Technology Co., Ltd**No. A1003, Building 135, Jinjun Garden, Chengnan Street ,
Wuzhong Economic Development Zone, Suzhou**

Customer Part Number:

Supplier Part Number:

Product Description:

**N2420-1.13 black
L=125mm first-
Terminals**

Matching model:

Supplier acknowledgement (stamp):

Customer acknowledges (stamp):

Produced by: Zhou Jingfeng

Structure: Zhou Jingfeng

Audit:**Date: 2025.03.21**

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one,Product images

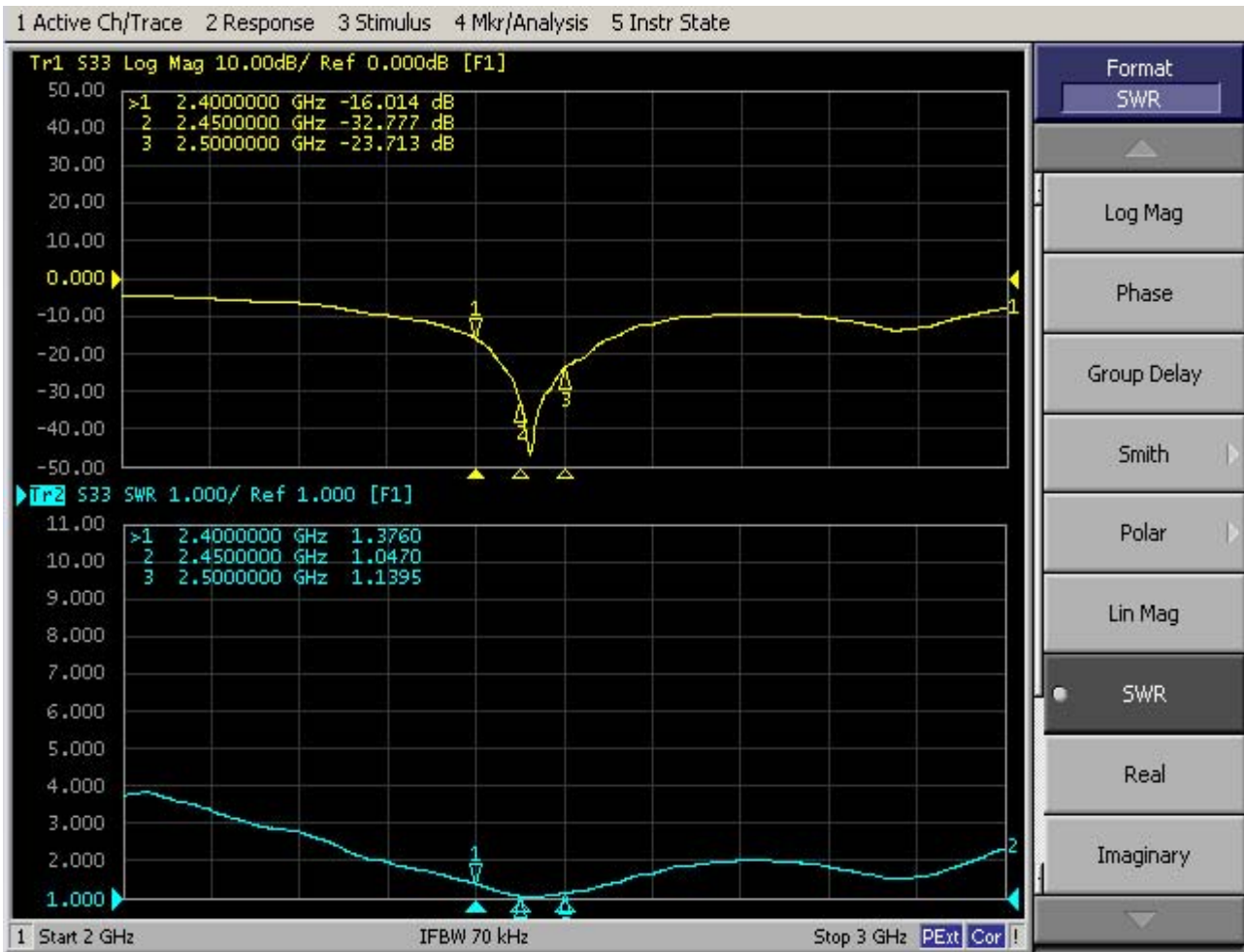
2. Product Parameters

Product test parameters			
Product Name(Name)	2.4G Internal antenna	Product Model(Model Type)	N2420-1.13 Black L= 125mm+first generation terminal
Electrical performance indicators(Electrical Specifications)			
Frequency Range (Frequency Range)	2400-2500Mhz	Polarization mode (Polarization)	vertical
Input Impedance(Impedance)	50 Ω	Radiation direction	Omnidirectional
VSWR (VSWR)	≤2	Power Capacity(Power)	50W
Gain(Gain)	2.66dBi	Bandwidth (Bandwidth)	100MHz

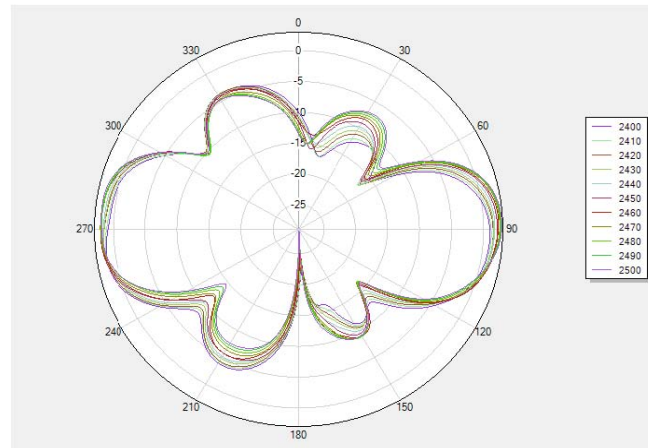
Mechanical indicators(Mechanical Specifications)			
size (Dimensions)	47±2MM	Antenna Color(Chassis Color)	black
even catch Device type Number (Connector)	First generation terminal	Lead length(Cable Length)	125MM±3MM
antennaMaterial (Chassis Material)	PCB		
Operating temperature (Working Temperature)	- 40°C±85°C	Storage temperature (Limit Temperature)	- 40°C±85°C

three,S11 (VSWR,Return loss,Smith)data

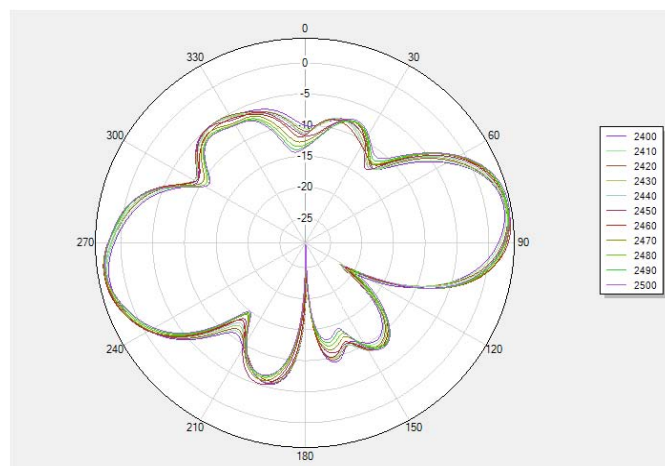
3.1 Network Analyzer Report



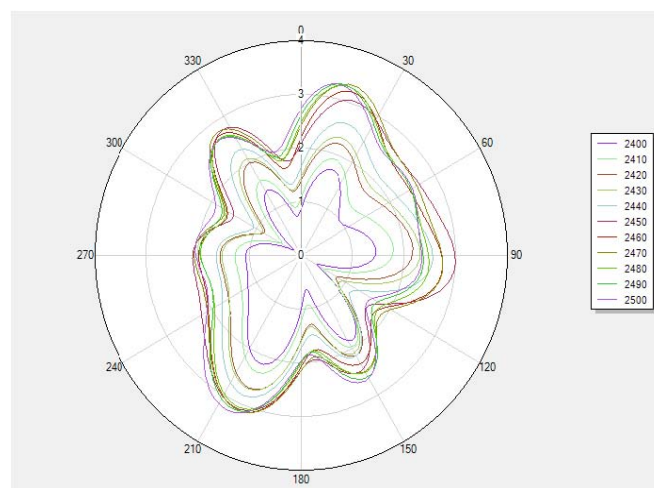
3.2 2D Direction Pattern



$\Phi 0^\circ \text{C2D}$

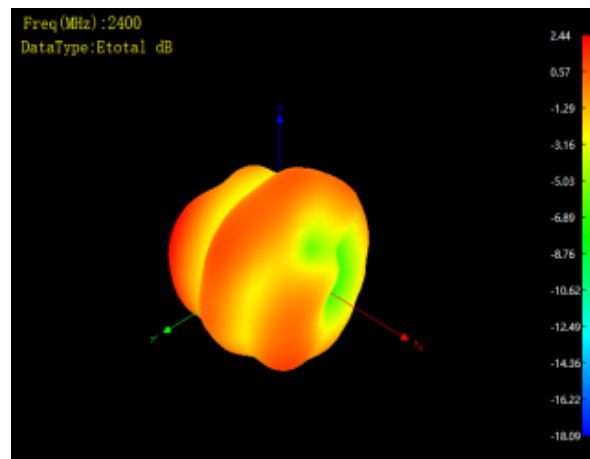


$\Phi 90^\circ \text{C2D}$

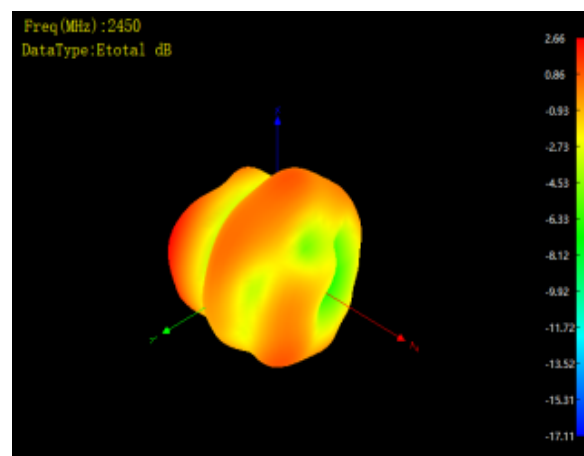


$\Theta 90^\circ \text{C2D}$

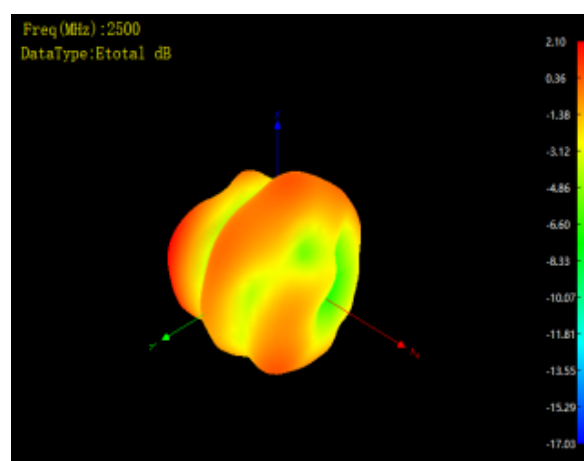
3.3 3D Direction Map



2400MHZ



2450MHZ

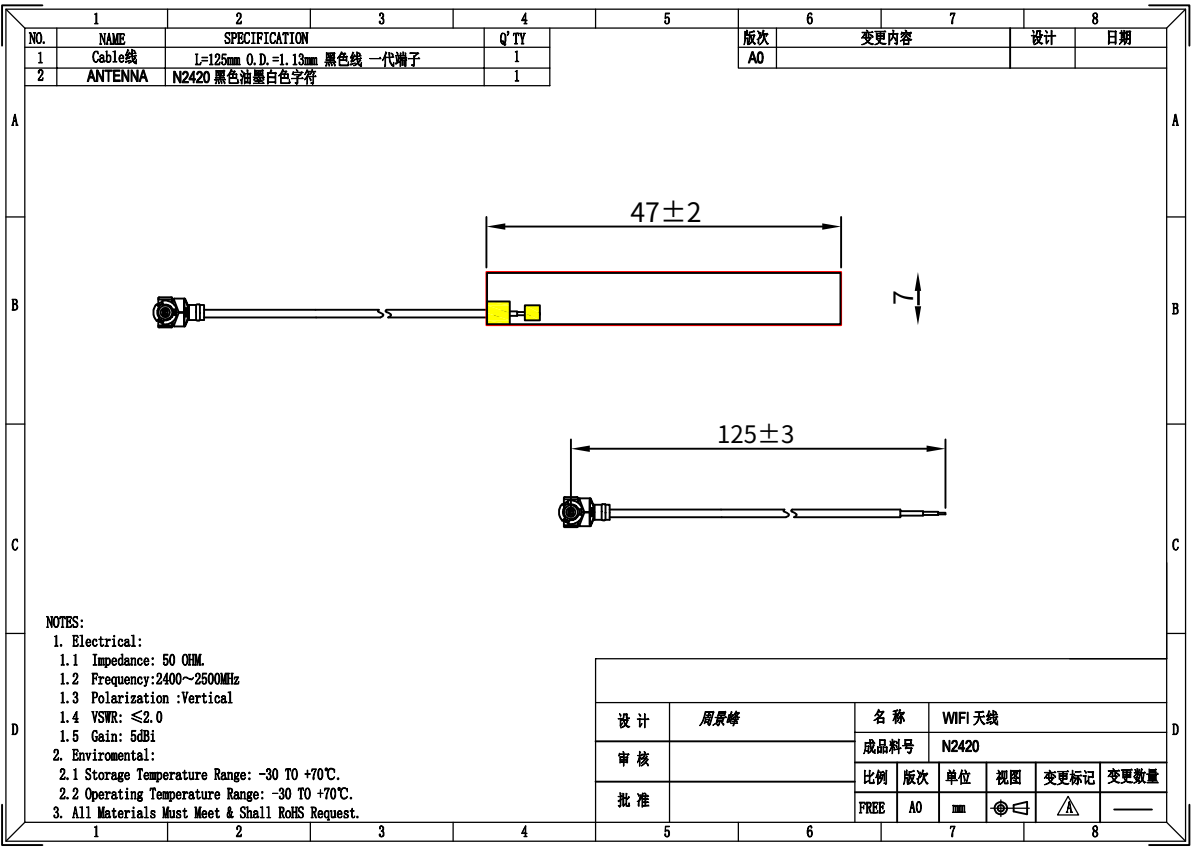


2500MHZ

4. Antenna efficiency and gain value

[illegible]

5. Product size drawings



6. Environmental performance test

Storage environment	When not specified, the test temperature, humidity and air pressure are as follows: 1. Temperature is -30°C~+80°C 2.Relative humidity is 45%-85% 3. Air pressure is 86kpa-106kpa	Electrical and mechanical performance is normal
High and low temperature test	Cycle between 70°C and 40°C for 5 times, then 1-2H, check the appearance quality.	The dimensions should meet the requirements and should Satisfaction Mechanical and electrical performance
Resistant to constant humidity and heat test	Relative humidity: 95±3%, test temperature: 40°C. After 2 hours of continuous exposure, the electrical performance of the test sample is measured within 5 minutes after the test sample is taken out. 1-2 hours after the parts are removed, check the appearance quality	The dimensions should meet the requirements and should Satisfaction Mechanical and electrical performance
Vibration test	Frequency range: 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, sweep cycle times: 30 times	Electrical and mechanical performance is normal
Drop test	1M high altitude free fall 3 times along mutually perpendicular axes	Electrical and mechanical performance is normal