



Dongguan RF Electronic Technology Co.,Ltd
Address: No.1, Qinghutou Sankeng Road, Tangxia Town, Dongguan City

Fax: 0769-38940199

Telephone: 0769-38940168
Website: www.rflink.net.cn

PRODUCT SPECIFICATION

Product Name: 2.4GHz internal antenna

Rf link P/N: U00T03S000N03461

Internal Structure: FPC

Rev: A

Date: 2023-05-06

	RFLNK	CUSTOMER
APPROVED:	Yao Ding Jun	
CHECKED:	Song Jun	
MADE:	Yang Zhen	



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1.Datasheet

(Electrical Specification)			
Working Frequency (MHz)	2400-2500	System Impedance (Ω)	50
Working Bandwidth (MHz)	100	Return Loss (dB)	/
VSWR	≤ 2.0	Peak Gain (dBi)	3.72
Average Gain (dBi)	/	Radiation Efficiency (%)	/
Radiation Directivity	Omni-directional	Out of Roundness (dBi)	/
Polarization	Linear, Vertical	Power Capacity (w)	10
(Mechanical Specifications)			
Dimensions(mm)	31.5*11.3	Plastic Color	/
Plastic Material	/	Cable Category	/
Radiator structure	/	Connection Type	/
Working Temperature	-20℃~+60℃	Storage temperature	-20℃~+70℃

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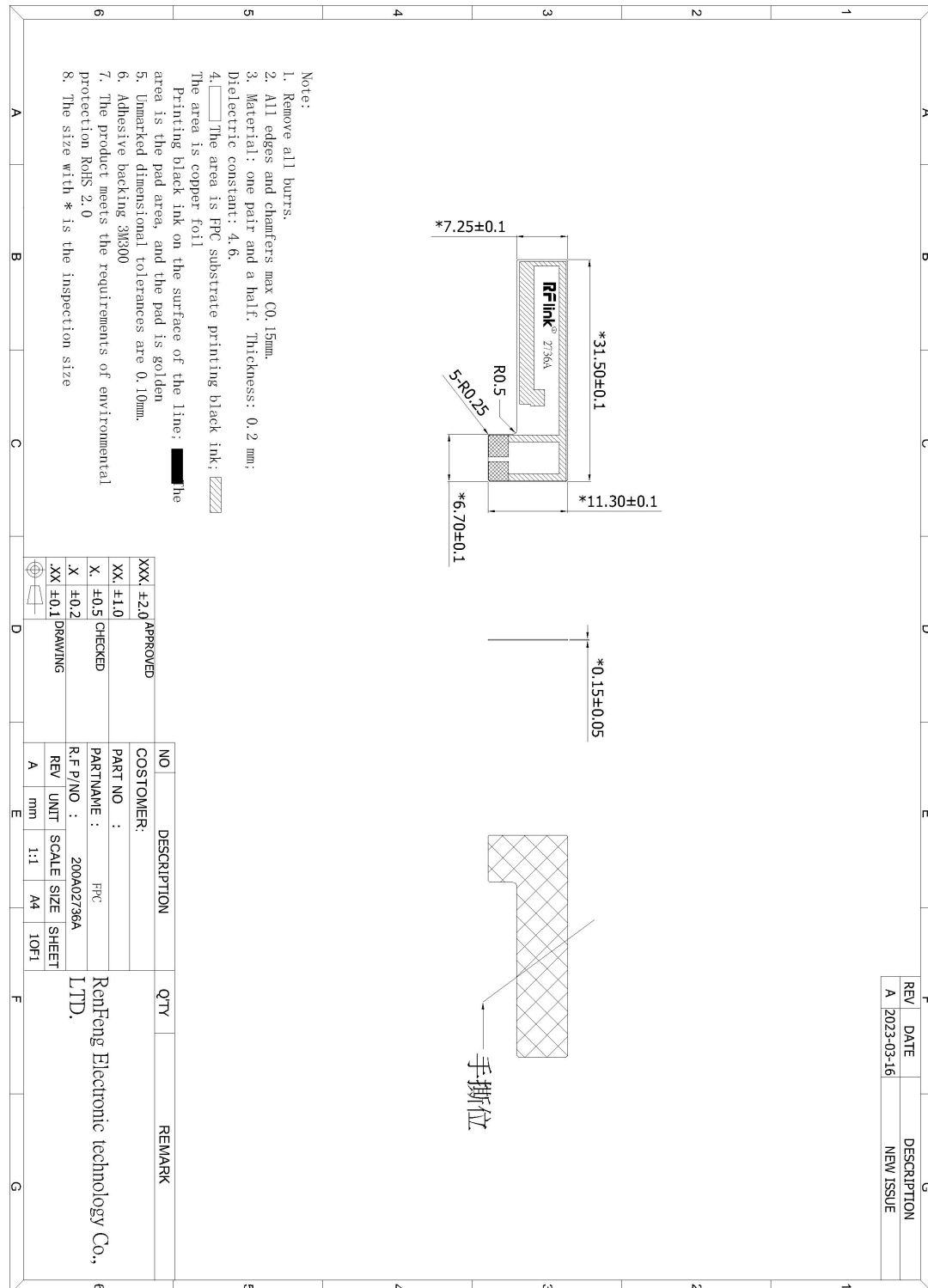
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2. Dawing



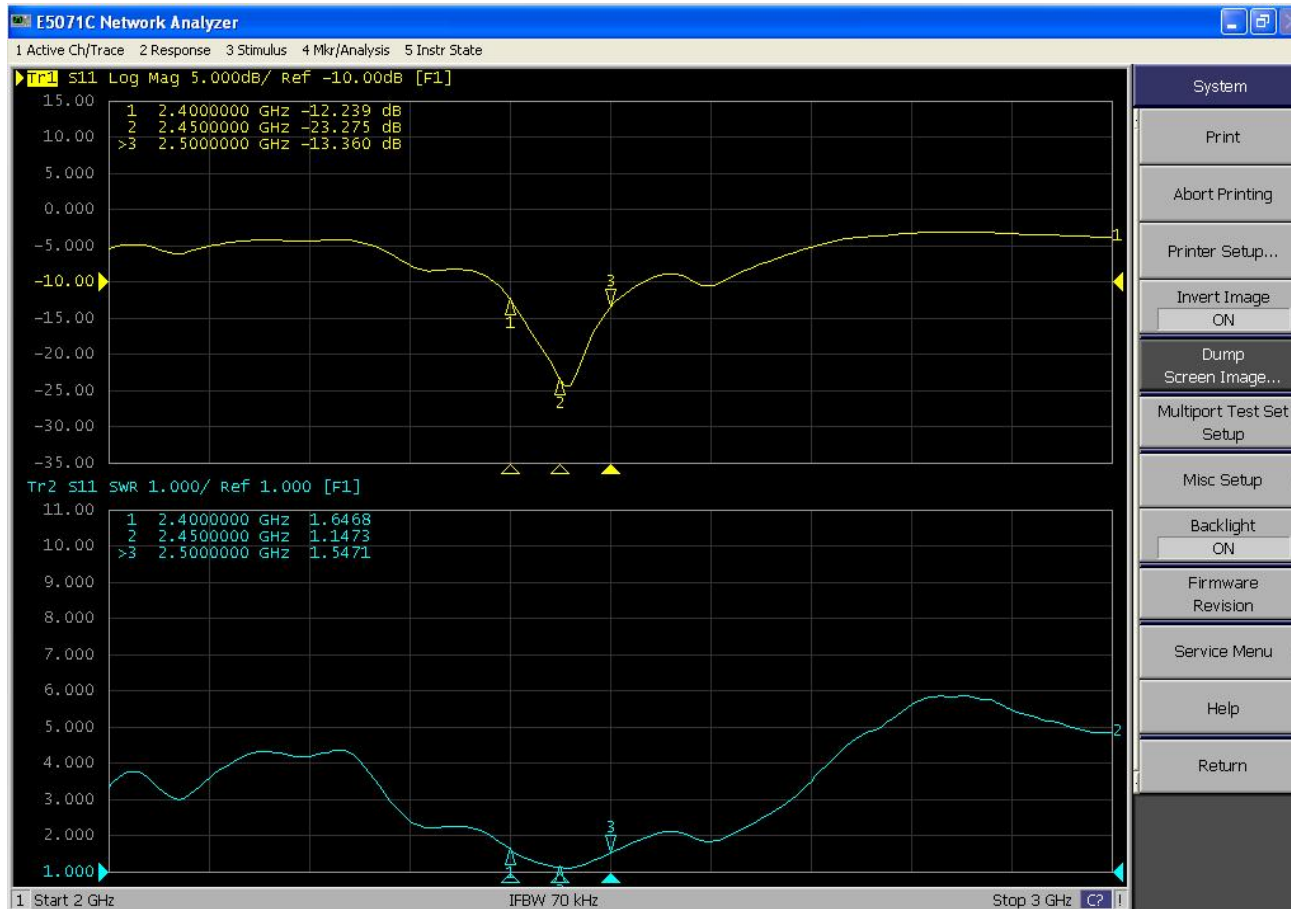
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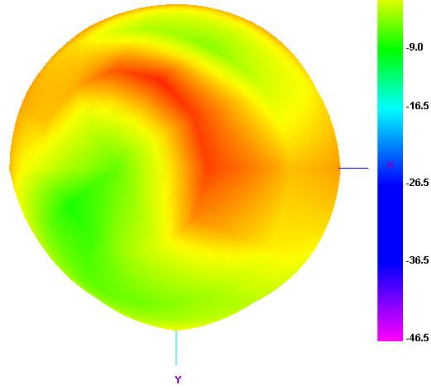
Measurement data--Return Loss & VSWR-WIFI 2.4G



Radiation pattern

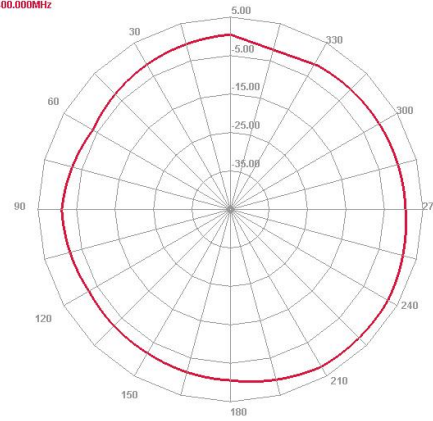
2400MHz

2400.000MHz



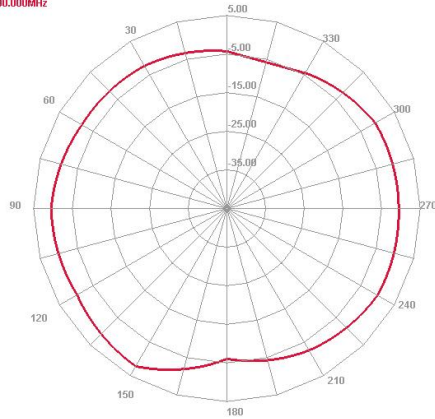
Horizontal

2400.000MHz



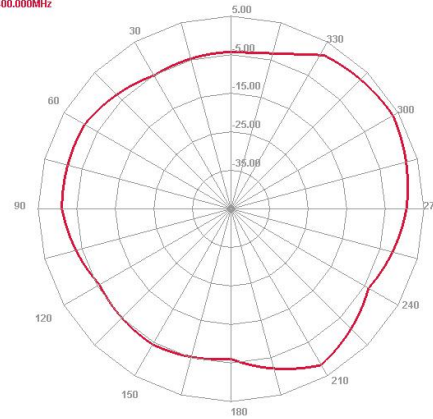
E1 Face

2400.000MHz



E2 Face

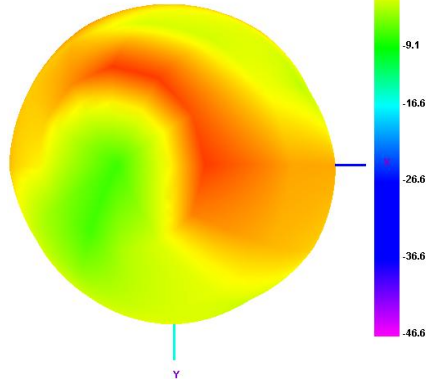
2400.000MHz



Radiation pattern

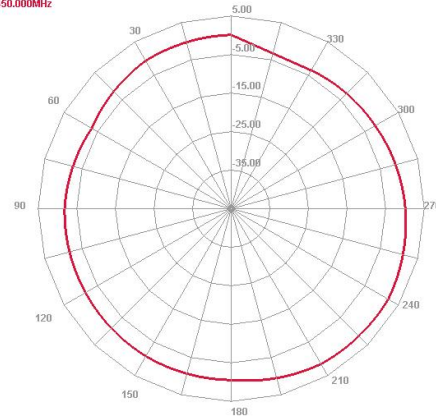
2450MHz

2450.000MHz



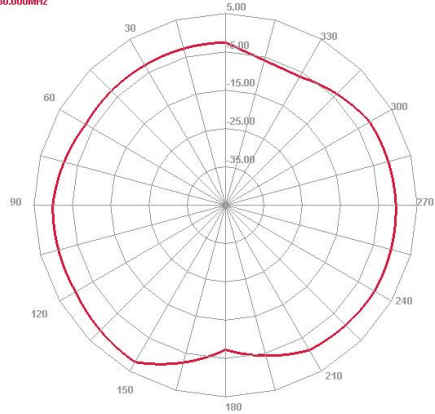
Horizontal

2450.000MHz



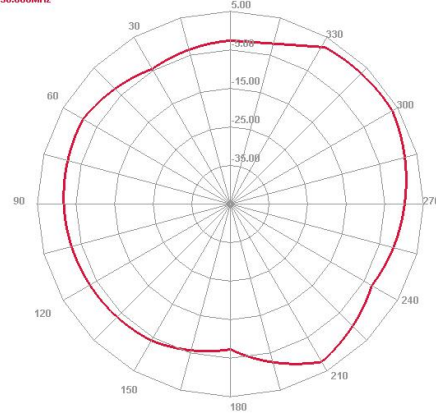
E1 Face

2450.000MHz



E2 Face

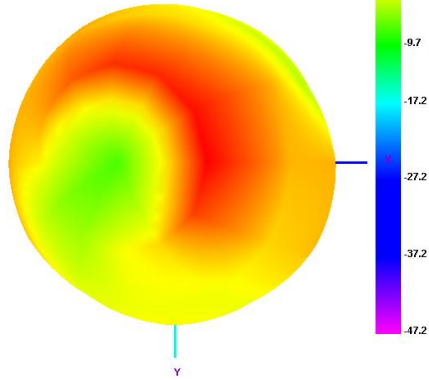
2450.000MHz



Radiation pattern

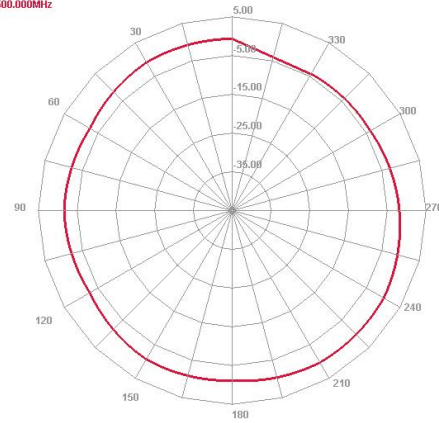
2500MHz

2500.000MHz



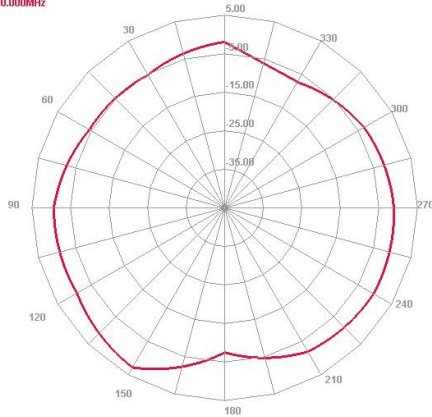
Horizontal

2500.000MHz



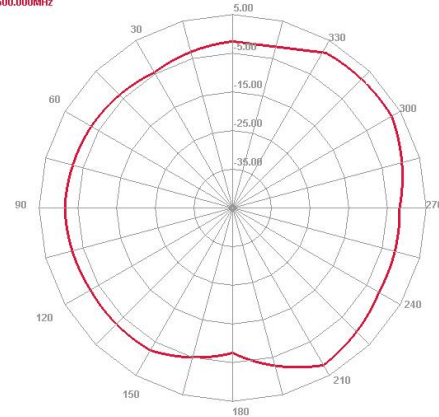
E1 Face

2500.000MHz



E2 Face

2500.000MHz



Gain table of Antenna

Freq (MHz)	Effi (%)	Gain (dBi)
2400	63.44	3.47
2410	66.35	3.54
2420	67.62	3.63
2430	68.28	3.72
2440	67.54	3.56
2450	65.47	3.42
2460	66.42	3.15
2470	66.74	3.1
2480	64.42	2.91
2490	63.83	2.75
2500	63.61	2.83

Test		2.4G 802.11n : MCS7		
Result		1	6	11
Frequency (MHz)		2412	2437	2462
TRP (dBm)		15.79	16.63	17.69
TIS (dBm)		-67.46	-68.53	-65.79