

Product Number: X-118B-31-364

Product Name: Cable Antenna

Specification For Approval

规格承认书

日期 Date : 2025/03/24

编号 File No. : XH250324001

版次 Version : 1.0

客 户

Customer: 客

户 料 号

Customer P/N:

信鸿料号

XinHong P/N: X-118B-31-364

品 名

Description: Cable Antenna

信鸿核对

XinHong Checked By:

客户核对

Customer Approved By:

东莞市信鸿电子有限公司

Dongguan Xinhong Electronics Co., Ltd.

东莞市松山湖园区科技四路11号1栋301

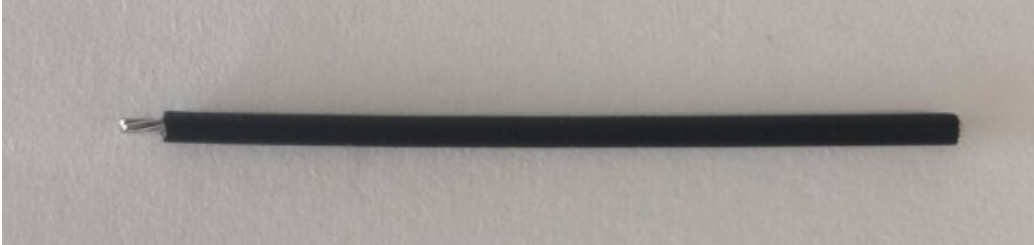
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目录 (Index) :

- A. 承认书封面 (Specification Cover) / Page 1**
- B. 承认书项目表 (Specification Item) / Page 2**
 - 1. 产品规格 (Product Specification) / Page 3**
 - 2. 可靠性测试数据 (Reliability Test Data) / Page 4**
 - 3. 网络参数测试数据 (SParameter Test Data) / Page 5**
 - 4. 效率及增益测试数据 (Efficiency and Gain Test Data) / Page 6**
 - 5. 工程图纸 (Mechanical Drawing) / Page 7**
 - 6. 包装规范 (Packing Specification) / Page 8**

1.产品规格 (Product Specification)

产品图片 (Product Photo)	
	
A. 电性参数 (Electrical Characteristics)	
频率 (Frequency)	2400~ 2500 MHz
电压驻波比 (V.S.W.R)	<3.0
返回损失 (Return Loss)	<=-10dB
天线增益 (Antenna Gain)	0~ 2dBi
辐射效率 (Radiation Efficiency)	20-40%以上
阻抗 (Impedance)	50 Ohm
极化方式 (Polarization)	Linear
天线类型 (Antenna Type)	Dipole
B. 材质及机械特性 (Material & Mechanical Characteristics)	
辐射材质 (Material of Radiator)	steel
线材类型 (Cable Type)	1.18 Black wire
接头类型 (Connector Type)	/
拉力测试 (Pull Test)	/
C. 环境因素 (Environmental)	
工作温度 (Operation Temperature)	- 40 °C ~ + 75 °C
储存温度 (Storage Temperature)	- 40 °C ~ + 85 °C

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2. Characteristics and Reliability Test(可靠性测试)

Test Items 測試項目		Test Condition and Procedure 測試方法	Requirements 要求	Result 結果
C1	V.S.W.R. 電壓駐波比	Set DUT on Network Analyzer; make individual calibration to test 設置網路分析儀參數進行測試	Directive DUT specification 符合待測物規範	PASS
M1	Vibration 震動	GB / T2423.48-2008 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction 振幅 1.5mm; 頻率 20~80~20Hz; 3 個方向各 2H	1. No Visual Damage 2. Frequency Tol.≤ 5% 無明顯外觀不良;頻率偏移≤ 5%	PASS
M2	Random Drop 跌落	GB / T2423.8-1995 Single: Height: 1.0 Meter; 3 directions; 1 time for each direction 單支天線, 高 1m; 3 個方向各 1 次	1. No parts separated、fracture 2. Frequency Tol.≤ 5% 產品無脫落、斷裂;頻率偏移≤ 5%	PASS
M4	Pull Test 拉力	Holding with individual specification; force applied to axis of terminal 單獨定義產品端子拉力	1. Directive DUT specification 2. Frequency Tol.≤ 5% 符合待測物規範;頻率偏移≤ 5%	PASS
M6	Dimension 尺寸	Inspection of dimension, color, material, package, surface process.检查尺寸,颜色,材料,包装,表面處理	Directive DUT specification 符合待測物規範	PASS
E2	Salt Spray 鹽霧	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 24H 溫度 35°C; 濕度≥ 95%;鹽水濃度≥ 5%; 測試 24H	1. No Visual Damage 2. Frequency Tol.≤ 5% 無明顯外觀不良;頻率偏移≤ 5%	PASS
E3	Temperature and Humidity Chamber 恒溫恒濕	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H 溫度 80°C 測試 12H 轉 -40°C 測試 12H; 濕度≥ 90%; 時間 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤ 5% 恢復 2H 后, 無明顯外觀不良;頻率偏移≤ 5%	PASS
E4	Thermal Shock 冷熱衝擊	GB / T 2423.22 - 2008 - 40°C (30 minutes) to + 80°C (30 minutes); Cycles: 24 - 40°C 測試 30 分轉 80°C 測試 30 分為一個週期; 共 24 週期	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤ 5% 恢復 2H 后, 無明顯外觀不良;頻率偏移≤ 5%	PASS
E5	Aging test 老化	GB /T 2423.2 - 2008 Temp: 80°C; Time: 24 hours 溫度 80°C, 測試 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤ 5%無明顯外觀不良;頻率偏移≤ 5%	PASS

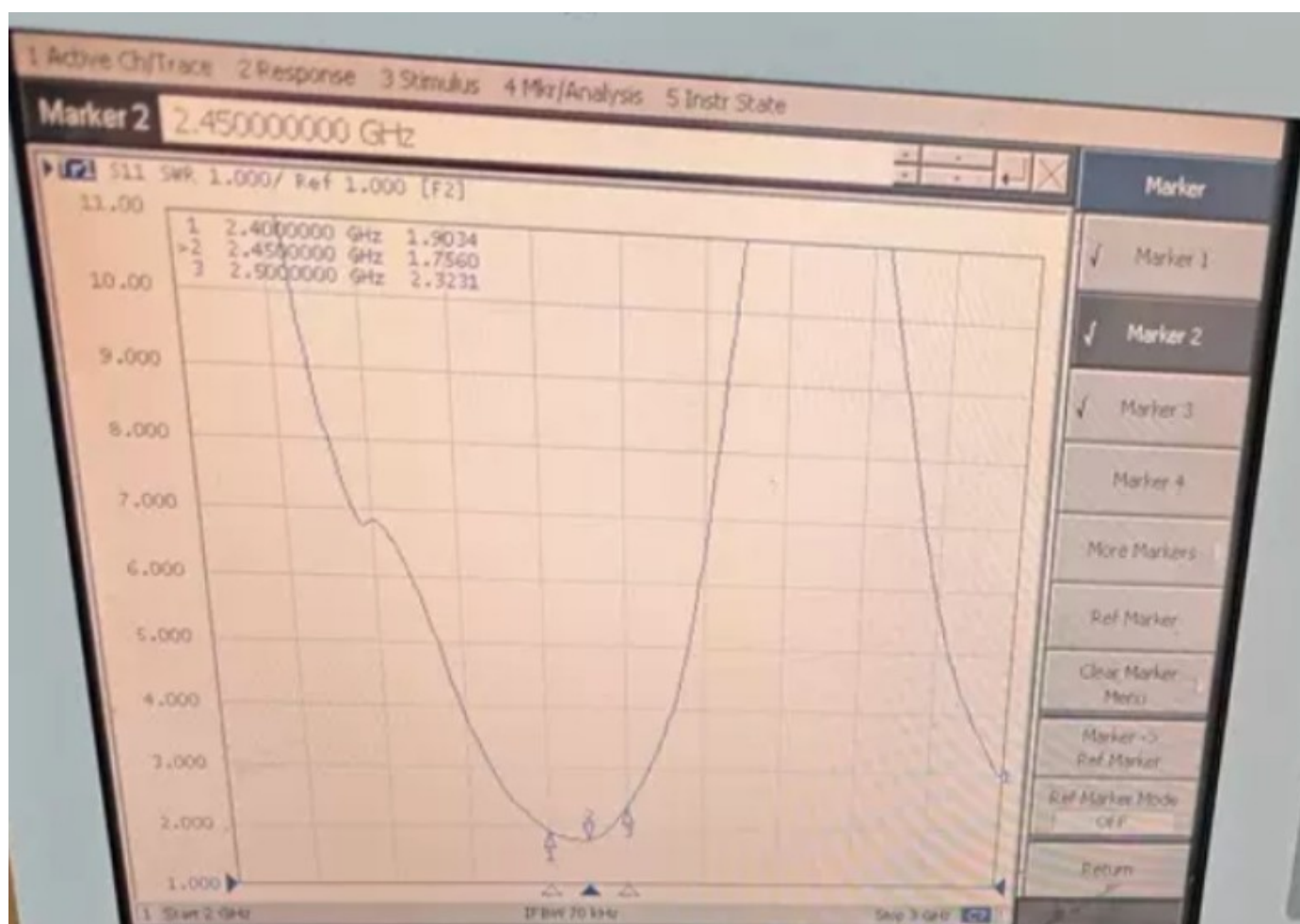
3.网络参数测试数据 (S Parameter Test Data)



(ROHDE&SCHWARZ) ZVL矢量网络分析仪

测试频率范围：9KHz-6GHz

测试能力：V. S. W. R、Return Loss、Smith等



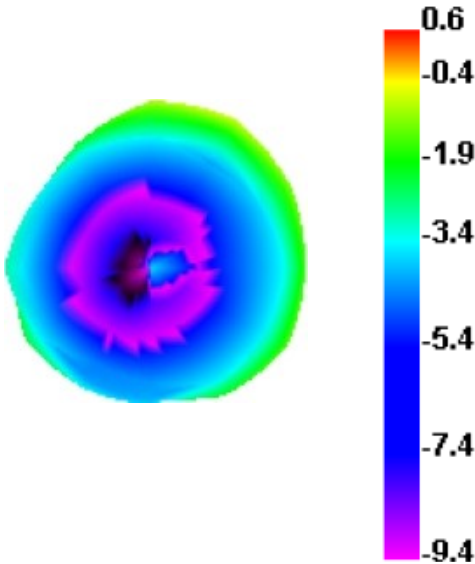
Product Number: X-118B-31-364

Product Name: Cable Antenna

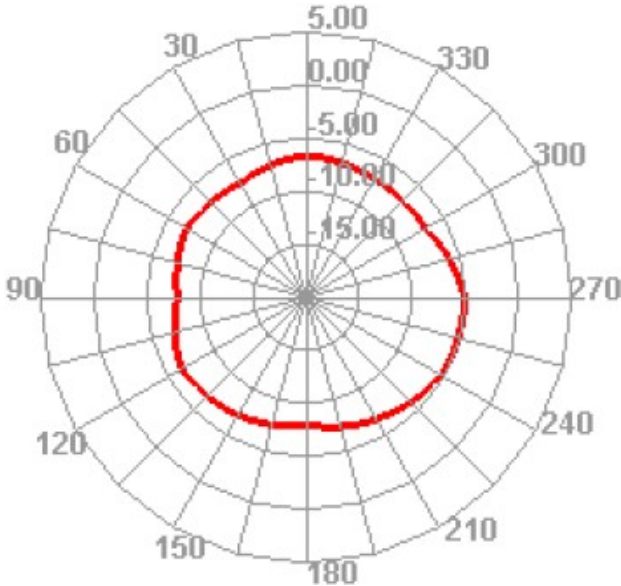
4(Efficiency and Gain Test Data)

Passive Test For WIFI2400		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	38.86	0.61
2410	34.34	0.05
2420	33.76	0.01
2430	33.3	0.09
2440	31.75	0.05
2450	31.35	0.2
2460	30.98	0.32
2470	43.46	1.77
2480	28.44	0.44
2490	26.67	0.28
2500	25.65	0.12

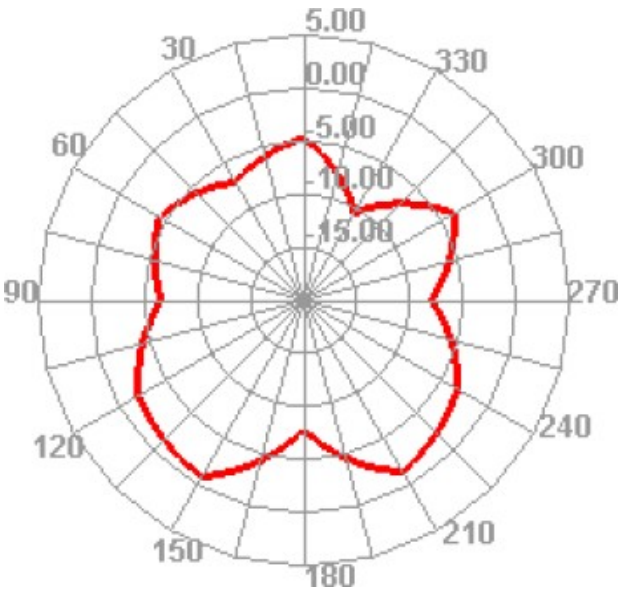
2400.000MHz



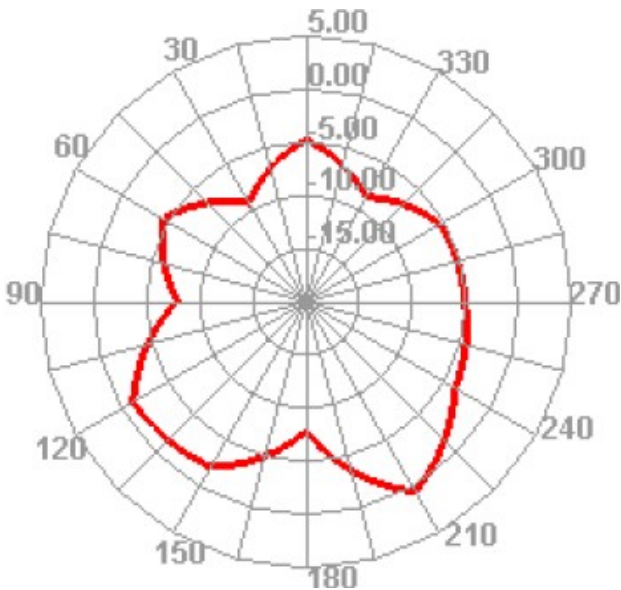
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



CONFIDENTIAL

Note:

1. The wire is $\phi 1.18$ black wire, and the characteristic impedance is 50 Ohm
- 2.* as the focus of inspection dimensions

Dongguan Xinhong Electronics Co., Ltd.

TITLE: Ø1.18 Cable

PART NO.: X-118B-31-364

APP BY

CHK BY

RF BY

CUSTOMER P/N: /

Standard Tolerance

X.X	±1.0	0.02
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X.XX ±0.5	0.03
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X°	± 1	0.05
UNIT		0.05

XRS	UNITS: mm	0.03
	SCALE: 1/1	0.05

2025/03/24	SCALE: 1/1	0.05
	REVISION: A	0.05

REVISION: A — 0.05

	☐
1	☒
	☐

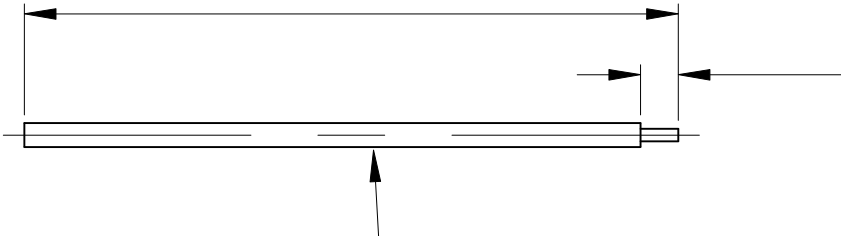
2

3

4

5

△			
△			
△	6	7	8



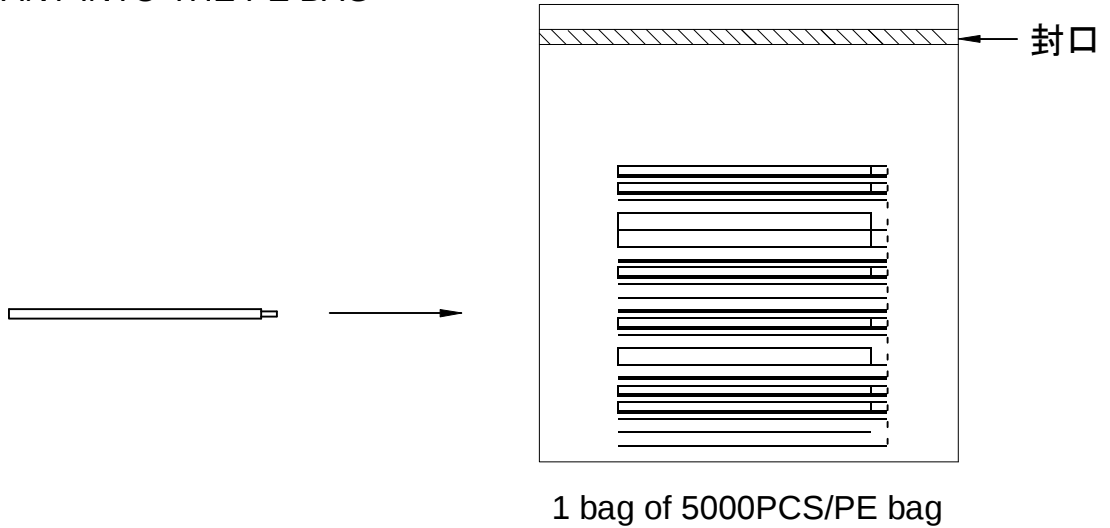
PACKING CRITERION

Date: 2025/03/24

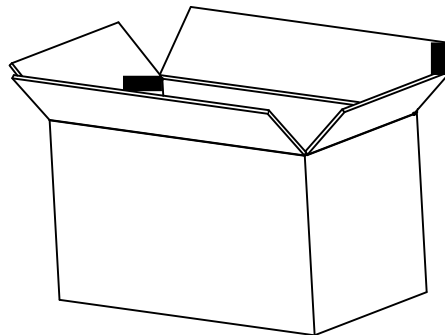
Page: 1 of 1

Part Number : X-118B-31-364	Revision : A
Name: Ø1.18 Cable Antenna	Customer :

一. WITH THE ANT INTO THE PE BAG



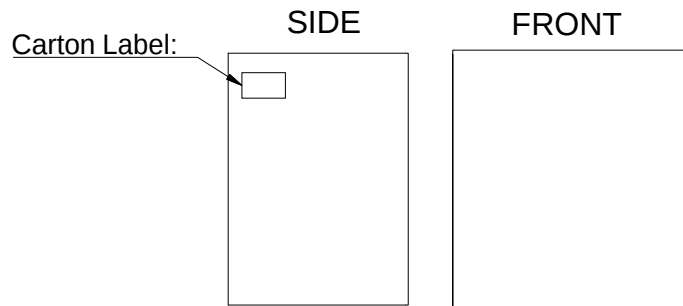
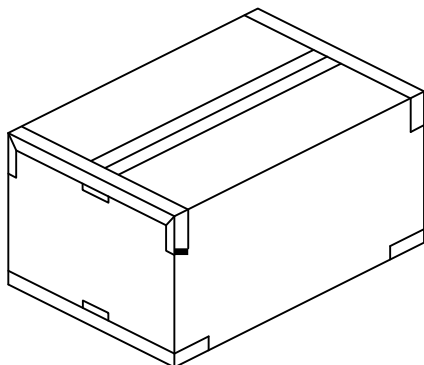
二. PACKING



20000PCS/CARTON

The quantity of packaging depends on the customer's order quantity

三. SEALING



APPROVED BY : City

CHECKED BY : Yixin

DESIGNED BY : XRS