

Product Number: XAW-9202BSM

Product Name: 2.4G Antenna

Specification For Approval

规格承认书

日期 Date : 2021/09/26

编号 File No. : XBL21092601

版次 Version : 1.0

客 户

Customer: WS

客 户 料 号

Customer P/

N: 荣和料号

Ronghe P/N: XAW-9202BSM

品 名

Description : 2.4G Antenna

荣和核对

Ronghe Checked By:

客户核对

Customer Approved By:

东莞市荣和电子科技有限公司

Dongguan Ronghe Electronic Technology Co., Ltd.

东莞市长安镇振安东路 162 号 6 栋 205

Room205,building6,No,162,East Zhen,an Road,Changan Town,Dongguan City

[TEL:86-0769-82286812](tel:86-0769-82286812) 电话: 13929204545

Product Number: XAW-9202BSM

Product Name: 2.4G Antenna

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

2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
S.W.R.	≤ 2.0
Antenna Gain	5.0 $\pm$ 0.7dBi @ 2450 MHz
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	CU
Material of Plastic	Body: TPEE Hinge: ABS Holder: ABS
Cable Type	RG-178
Connector Type	SMA Male
Connector Pull Test	≥ 5 Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 2 year

Product Number: XAW-9202BSM

Product Name: 2.4G Antenna

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

Product Number: XAW-9202BSM

Product Name: 2.4G Antenna

3.网络参数测试数据 (S Parameter Test Data)

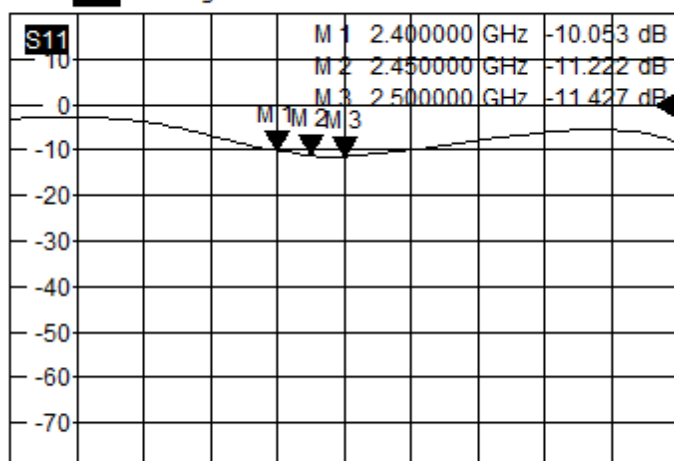


(ROHDE&SCHWARZ) ZVL矢量网络分析仪

测试频率范围: 9KHz-6GHz

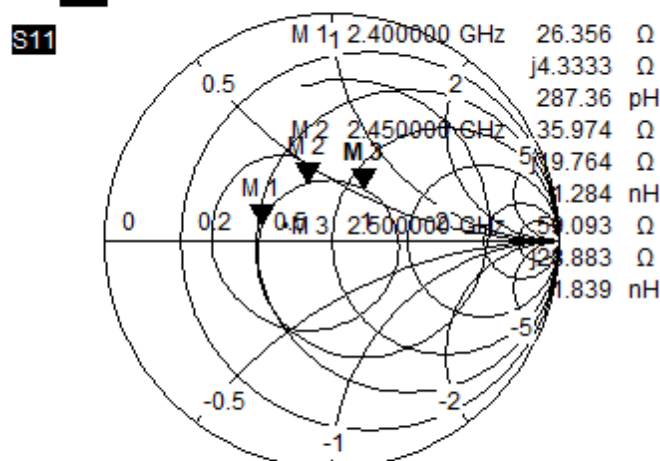
测试能力: V. S. W. R、Return Loss、Smith等

Trc1 **S11** dB Mag 10 dB / Ref 0 dB



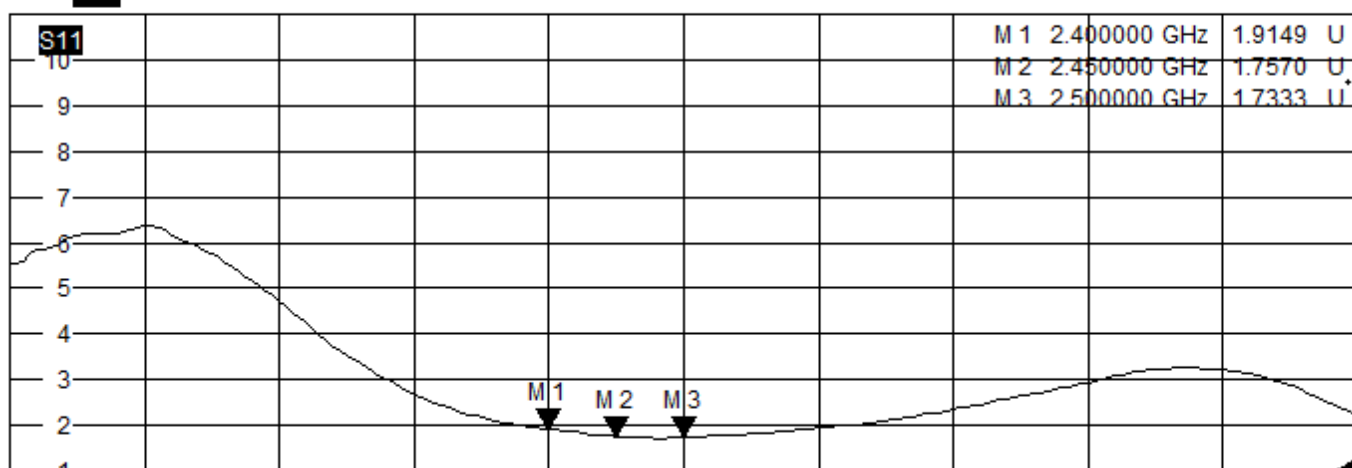
Ch1 Start 2 GHz Pwr 0 dBm Stop 3 GHz

1 Trc2 **S11** Smith Ref 1 U



Ch1 Start 2 GHz Pwr 0 dBm Stop 3 GHz

Trc3 **S11** SWR 1 U / Ref 1 U



Ch1 Start 2 GHz Pwr 0 dBm

Stop 3 GHz

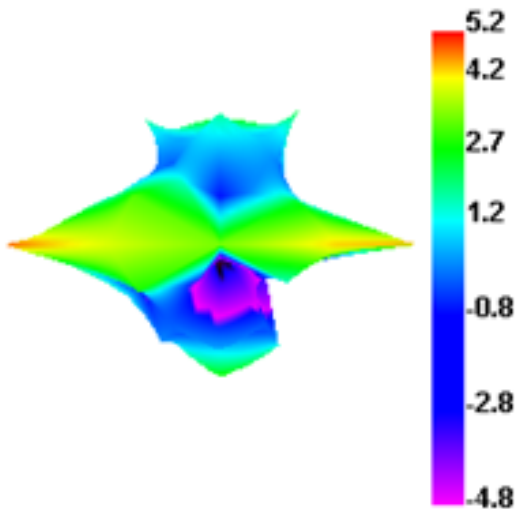
Product Number: XAW-9202BSM

Product Name: 2.4G Antenna

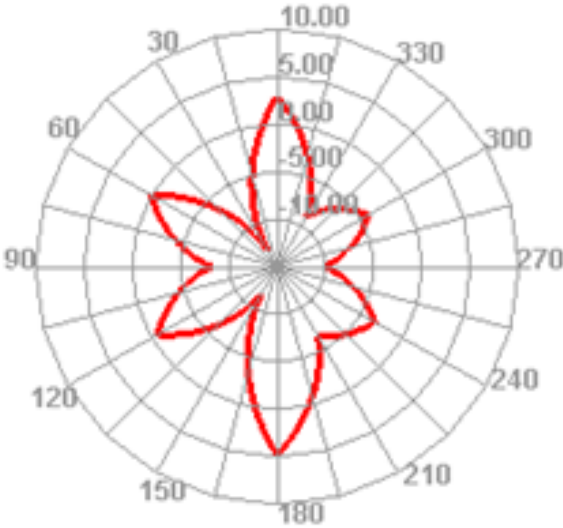
4.效率及增益测试数据（Efficiency and Gain Test Data）

Passive Test For WIFI2400		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	85.12	5.18
2410	84.58	5.17
2420	85.02	5.31
2430	89.04	5.64
2440	87.84	6.09
2450	81.44	5.27
2460	88.73	5.18
2470	86.88	5.64
2480	89.28	5.31
2490	88.84	5.34
2500	81.96	5.09

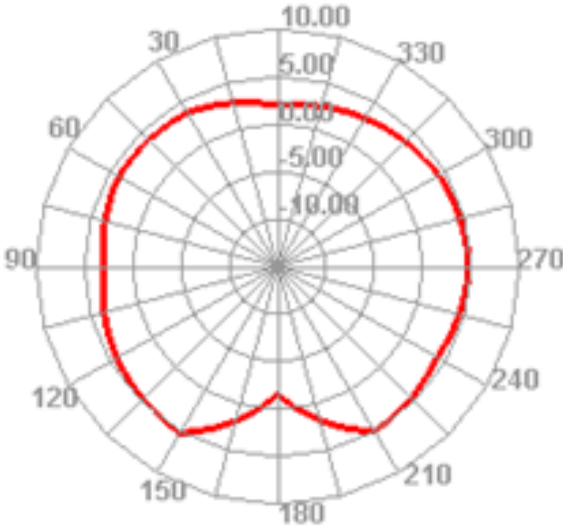
2400.000MHz



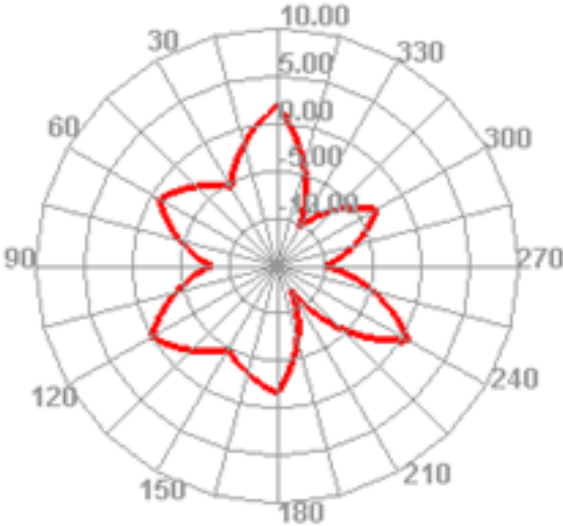
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



產品包裝規範

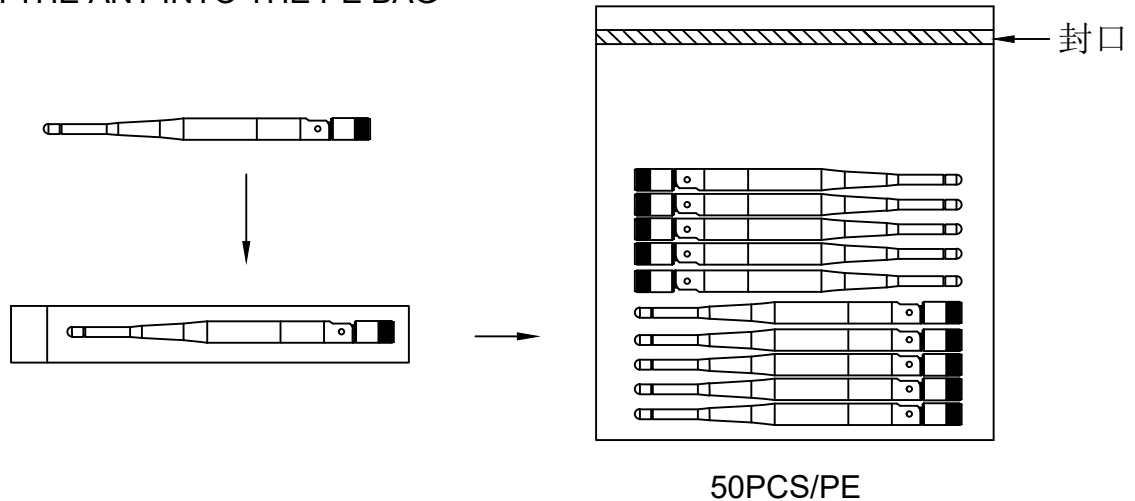
PACKING CRITERION

Date: 2021/09/26

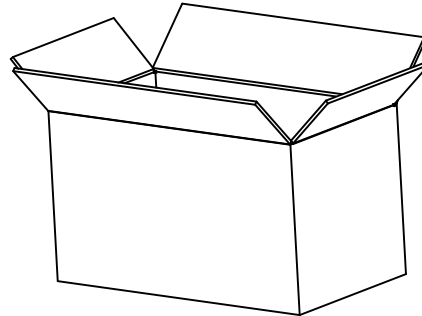
Page: 1 of 1

Part Number :XAW-9202BSM	Revision : A
Name: 2.4G Antenna	Customer :

一. WITH THE ANT INTO THE PE BAG

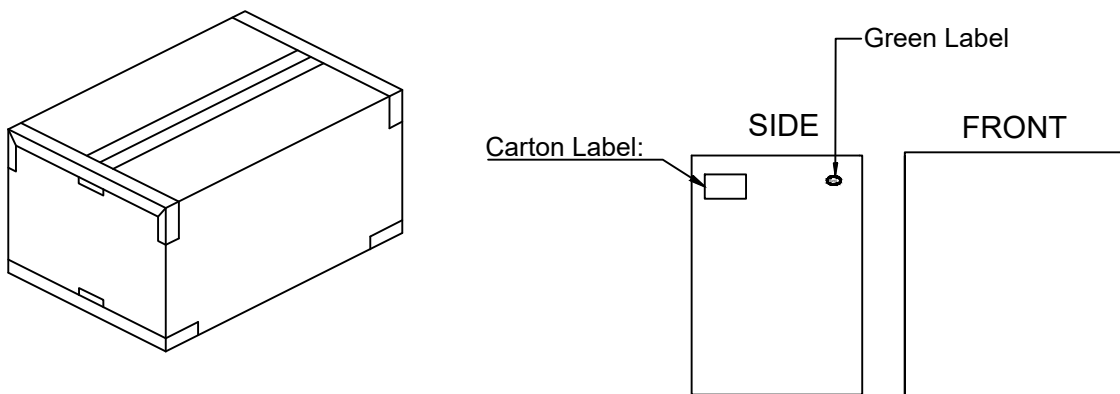


二. PACKING



500PCS/CARTON

三. SEALING



APPROVED BY : Darren

CHECKED BY : Yixin

DESIGNED BY : XRS