

Dongguan Junhe Wireless Technology Co., Ltd
Room 501, No. 33 Xiangguisi Road, Tangxia Town,
Dongguan City, Guangdong Province

SPECIFICATION FOR APPROVAL

CUSTOMER _____

2.4G spring Antenna
DESCRIPTION _____

JH2400TH9A01
SPECIFICATION _____

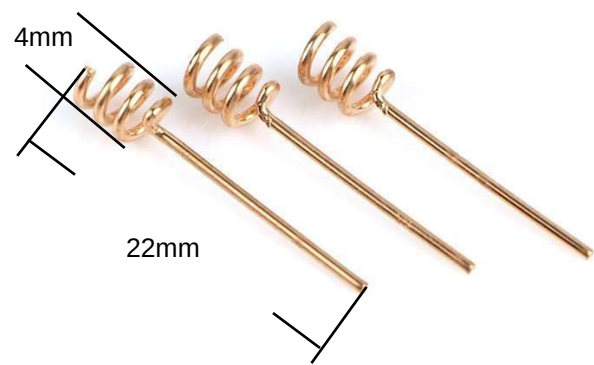
Customer part number _____

Approval Date _____

Sending Date 2023.2.25

Dongguan Junhe Wireless Technology Co., Ltd
Room 501, No. 33 Xiangguisi Road, Tangxia Town,
Do

1、 Product physical image



1. 适用范围
本规格书制定了电线的结构和电气特性

同轴线
AWG 32

1. Scope
This specification covers the construction
and the electrical properties of wire.

Coaxial Wire
AWG 32

2. 结构/Construction 单位/Unit: mm

项目/Item		单位/Unit	详细资料/Details
Conductor 导体	材料/Material	-	绞合镀银铜丝 Silver-coated copper wire
	构成/Composition	(No./mm)	7/0.08
	外径/OD.	mm	0.24
	绞向/Orientation	-	S
Insulation 绝缘层	材料/Material	-	FEP(进口料)
	绝缘颜色/Insulation color	-	本色/Natural
	Nom. Thickness	mm	0.22
	绝缘线径/OD.	mm	0.69
Braid Shield 编织	材料/Material	-	镀锡铜丝 Tinned copper wire
	构成/Composition	(No./mm)	16/4/0.05
	编织密度/Coverage	(%)	>=90
Jacket 外被	材料/Material	-	FEP
	标称绝缘厚度/	mm	0.12
	外径/OD.	mm	1.13±0.10

3. Electrical Properties (at 20℃) /电气特性(20℃时)

项目/Item	单位/Unit	详细资料/Details
导体电阻/Conductor Resistance	Ω/km	571 (Max.)
绝缘电阻/Insulation Resistance	MΩ · km	100 (Min.)
耐压强度(AC)/Dielectric Strength(AC)	V/ 1 Min	500
特性阻抗/Impedance	Ω	50±3
耐温等级/ Temperature	℃	200
额定电压/rated voltage	V	30

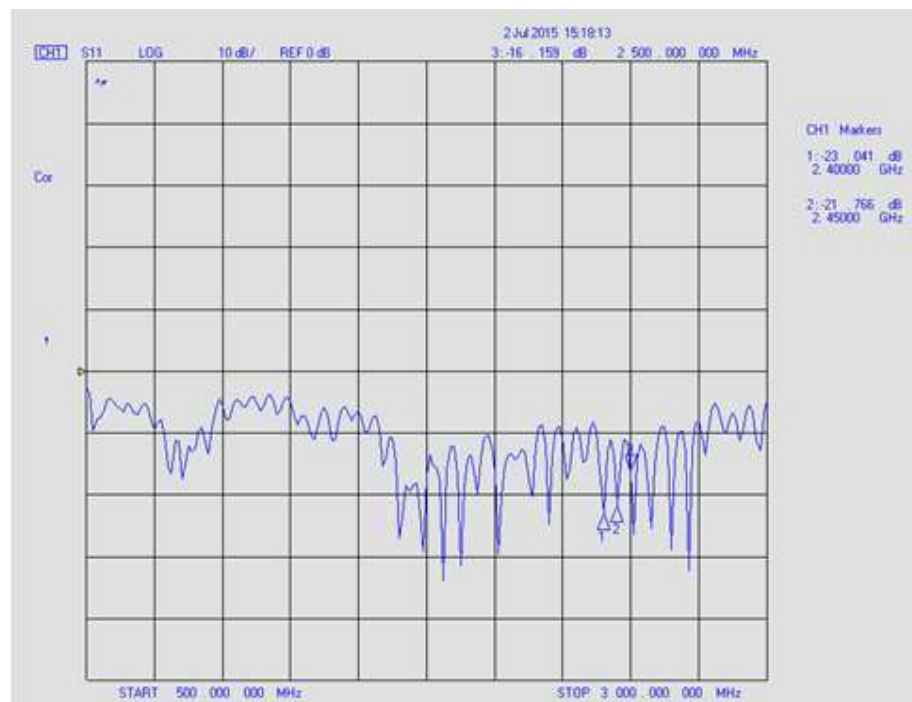
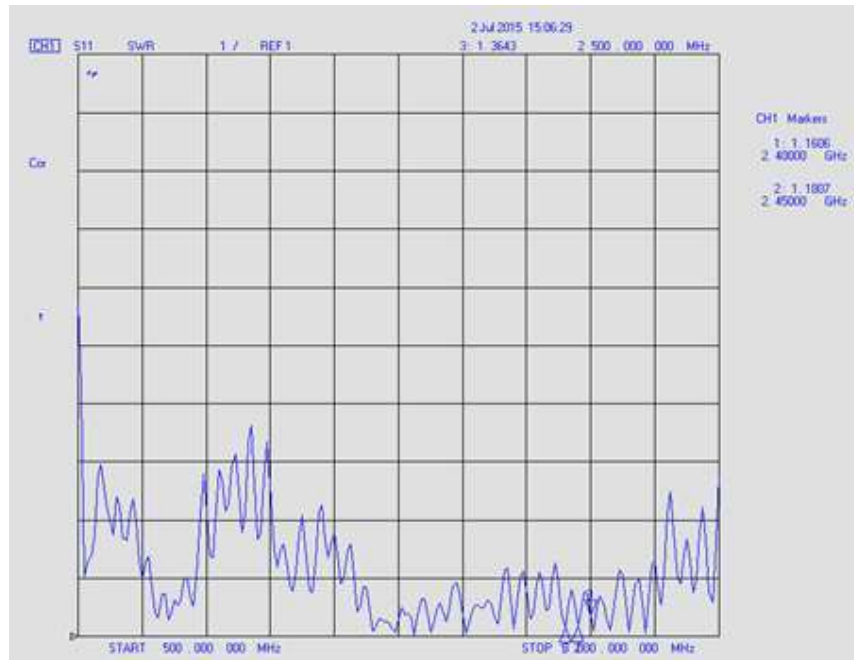
Dongguan Junhe Wireless Technology Co., Ltd
Room 501, No. 33 Xiangguisi Road, Tangxia Town,
Dongguan City, Guangdong Province

2、Test items and equipment

	Item	
1. S11 参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	Agilent E5071B HP 8753D
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent 8960 E5515B ×2 StarPoint SP6011
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent E5071B HP 8753D

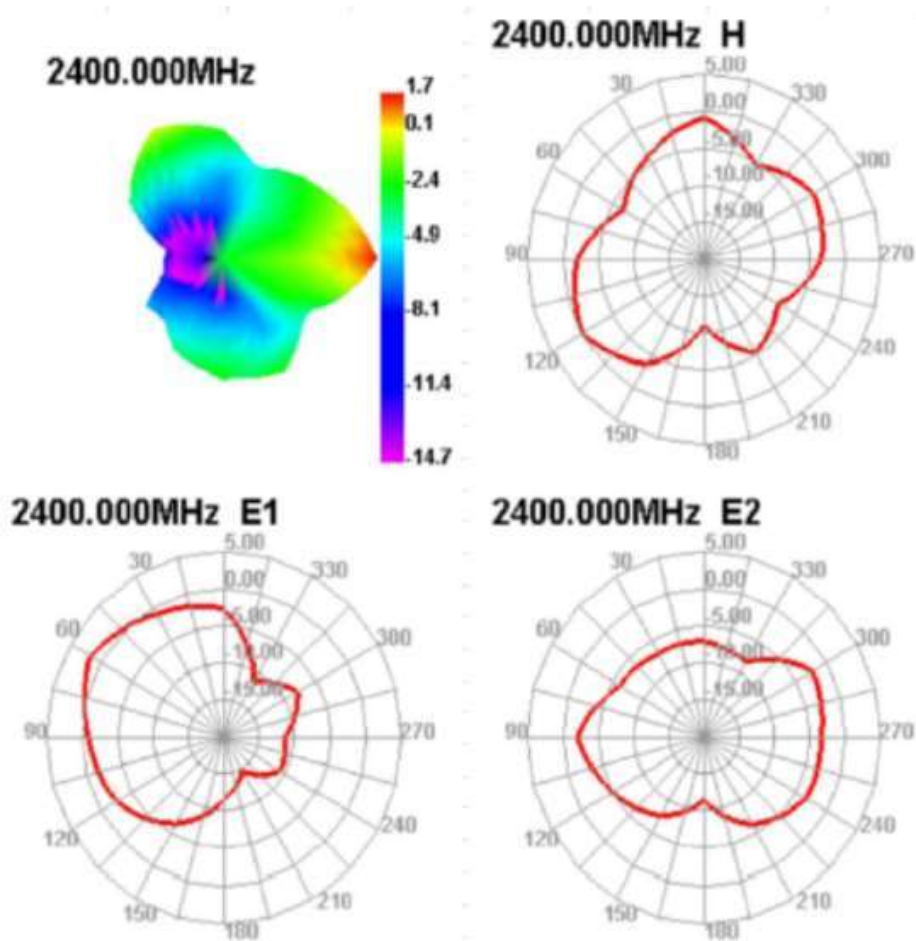


Dongguan Junhe Wireless Technology Co., Ltd
Room 501, No. 33 Xiangguisi Road, Tangxia Town,
Dongguan City, Guangdong Province



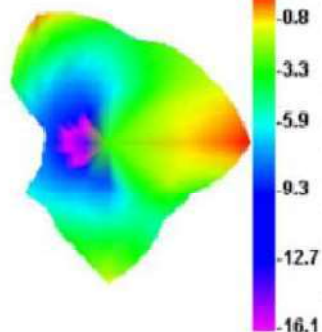
Dongguan Junhe Wireless Technology Co., Ltd
Room 501, No. 33 Xiangguisi Road, Tangxia Town,
Dongguan City, Guangdong Province

MODEL	JH2400TH9A01
Main technical specifications	
Frequency Range (MHz)	2400/2500
VSWR	≤2.0
Gain (dBi)	2
Input Impedance (Ω)	50
Polarization Type	Line polarization
Antenna Length (mm)	20mm
Working Temperature	-40℃~+85℃

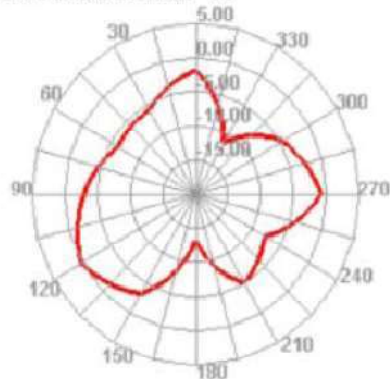


Dongguan Junhe Wireless Technology Co., Ltd
Room 501, No. 33 Xiangguisi Road, Tangxia Town,
Dongguan City, Guangdong Province

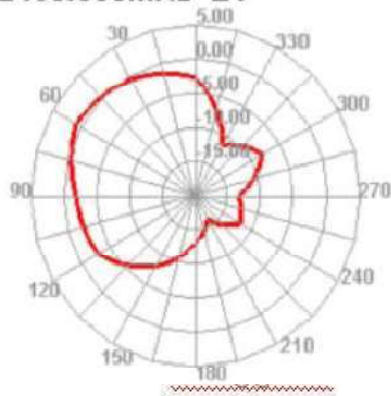
2450.000MHz



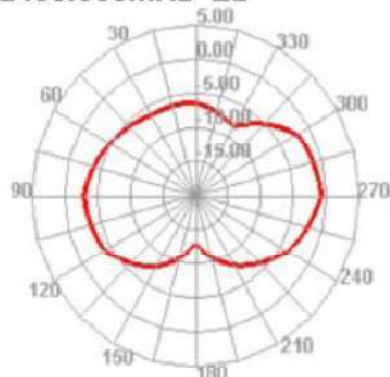
2450.000MHz H



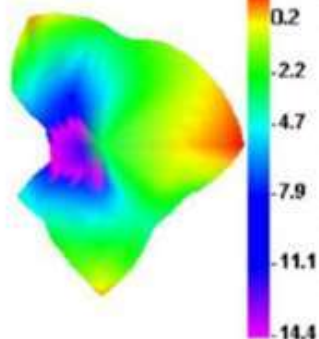
2450.000MHz E1



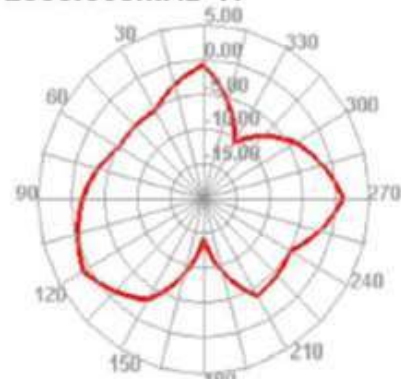
2450.000MHz E2



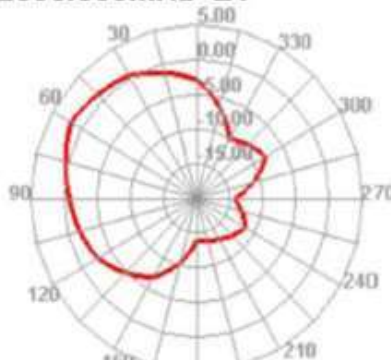
2500.000MHz



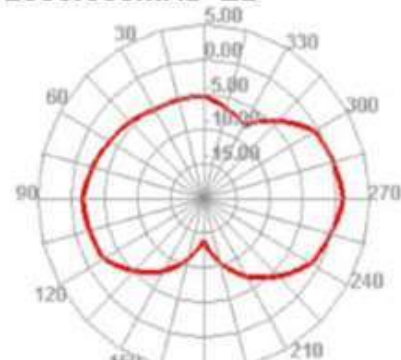
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



Dongguan Junhe Wireless Technology Co., Ltd
Room 501, No. 33 Xiangguisi Road, Tangxia Town,
Dongguan City, Guangdong Province

Environment performance test

Project	Test condition	Test results
Storage environment	Test temperature, humidity, pressure without stated condition as follwings:1.Temperature: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa	Electrical and mechanical performance normal
High and low temperature test	Having 5 times cycle between -40°C to 70°C ,Then in common condition 1-2 hours test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Resistance constant hot and humid test	Relative humidity: $95\pm 3\%$,Test temperature: 40°C ,last 2 hours ,put it after 5 min test the electrical function .Test products during common condition 1-2 hours ,Then test exterior quality.	Measurement satisfied with electrical and mechanical performance normal.
Vibration test	Vibrate Frequency:10-55HZ; Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times	Electrical and mechanical performance normal
Fall test	From 1m height fall down 3 times freely (vertical direction)	Electrical and mechanical performance normal