

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

**SPECIFICATION FOR APPROVAL**

CUSTOMER \_\_\_\_\_

monopole Antenna

DESCRIPTION \_\_\_\_\_

SPECIFICATION 514-542MHz

Customer part number \_\_\_\_\_

Approval Date 2024.10.23

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## 1、 Product physical image



Length: 120mm

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2、 Test items and equipment

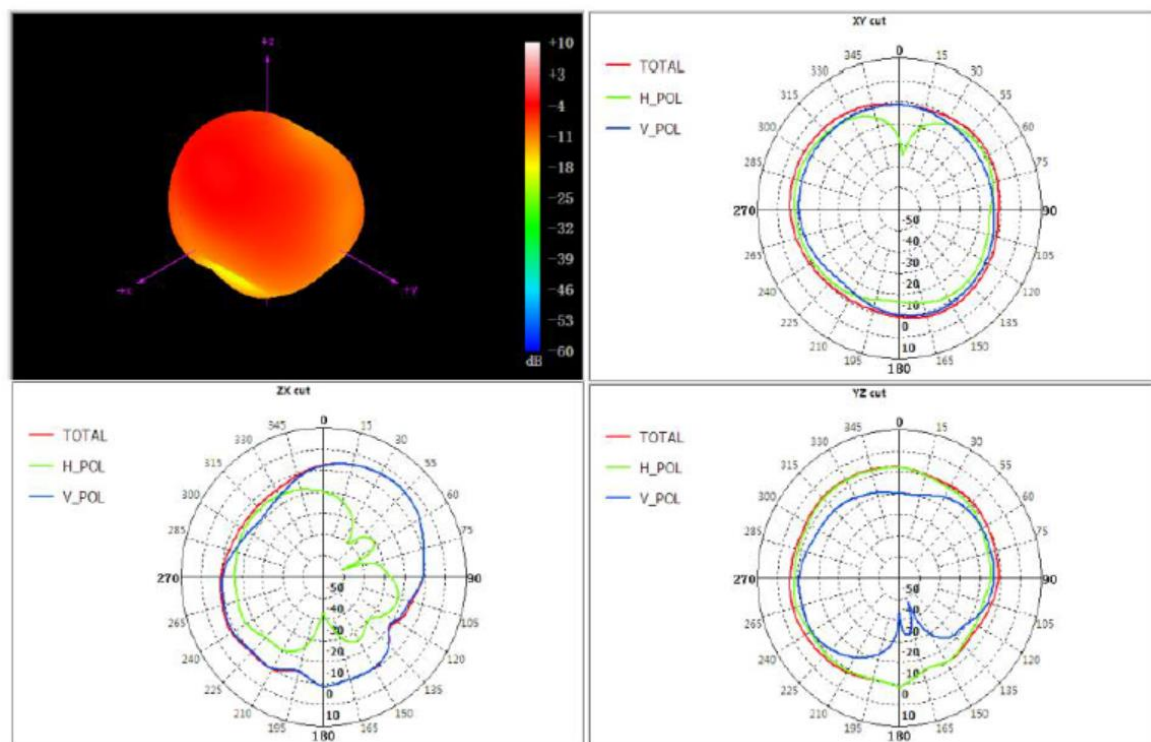
|                            |                                          |                                                                                                        |
|----------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------|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



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| Main technical specifications |            |
|-------------------------------|------------|
| Frequency Range (MHz)         | 514-542MHz |
| VSWR                          | ≤2.0       |
| Gain (dBi)                    | 0          |
| Input Impedance (Ω)           | 50         |
| Polarization Type             | monopole   |
| Working Temperature           | -40℃~+85℃  |
| Limit Temperature             | -30℃~+85℃  |

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Environment performance test

| Project                                | Test condition                                                                                                                                                                            | Test results                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Storage environment                    | Test temperature, humidity, pressure without stated condition as follwings:1.Temperature: -30 ℃ ~ +80 ℃ ;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℃ to 70℃,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±3%,Test temperature: 40℃,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;<br>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                             |