

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 \_\_\_\_\_

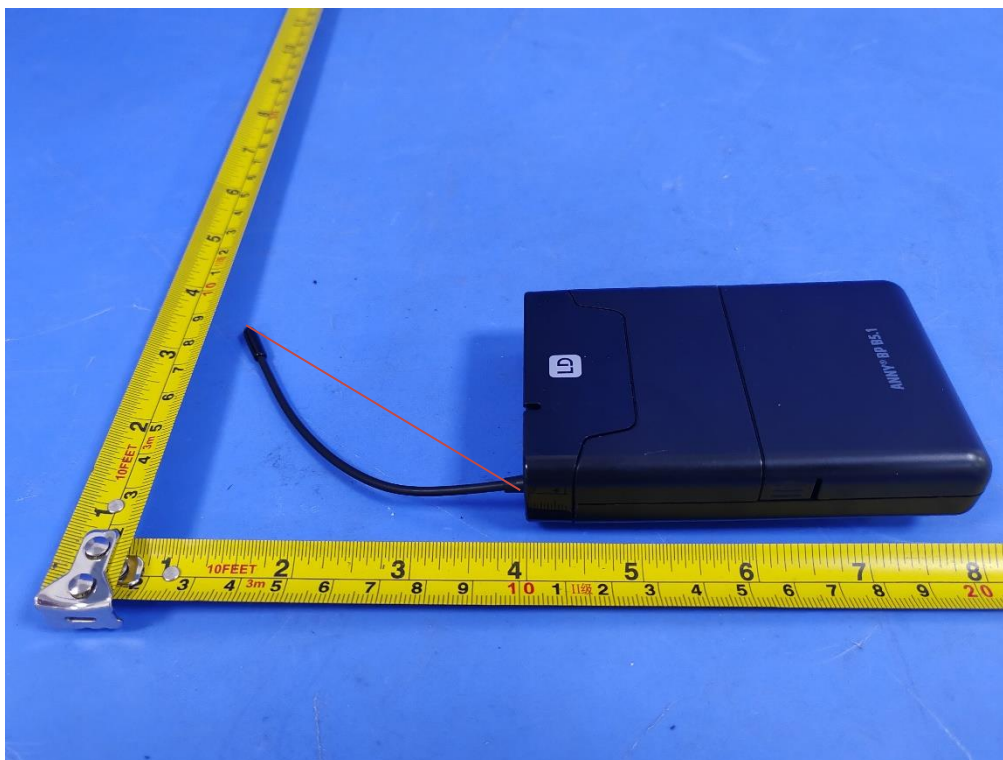
SPECIFICATION 514-542MHz

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

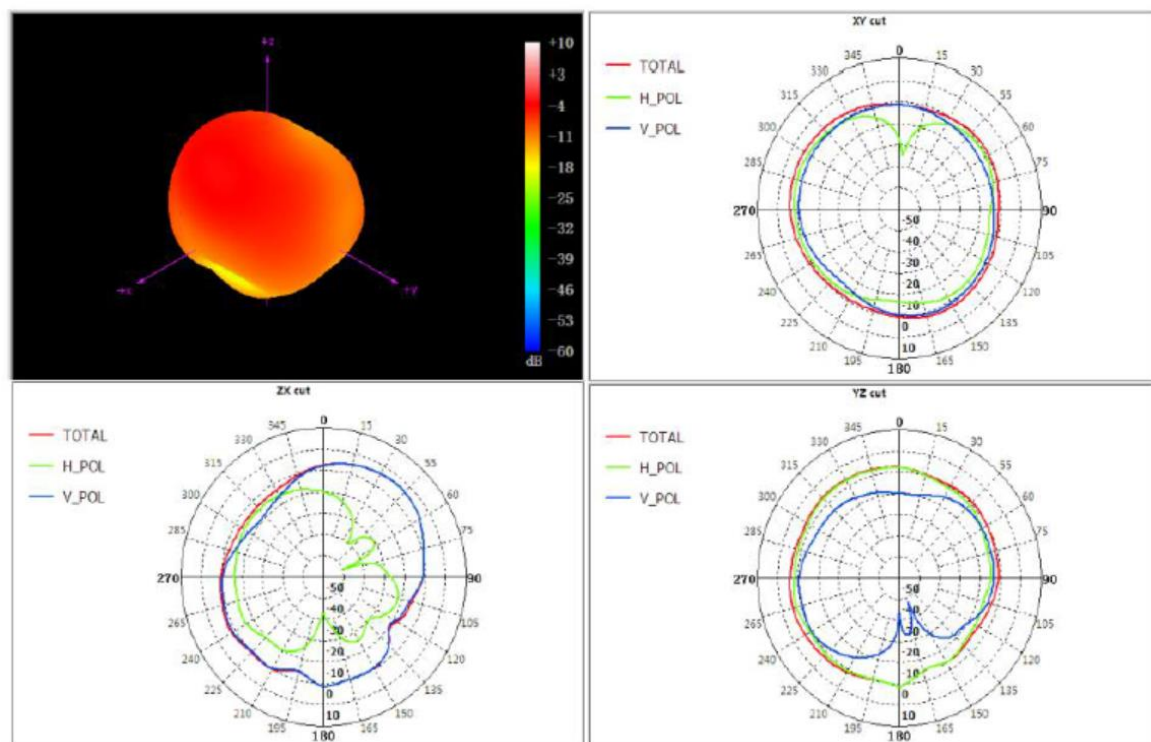
	Item	
1. S11 参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	Agilent E5071B HP 8753D
2. 有源测试 (Active )	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent 8960 E5515B x2 StarPoint SP6011
3.无源测试 (Passive)	1.天线增益 (Gain) 2.天线效率 (Efficiency)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent E5071B HP 8753D



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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; 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