

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

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SPECIFICATION FOR APPROVAL

CUSTOMER _____

5.8G PCB Antenna

DESCRIPTION _____

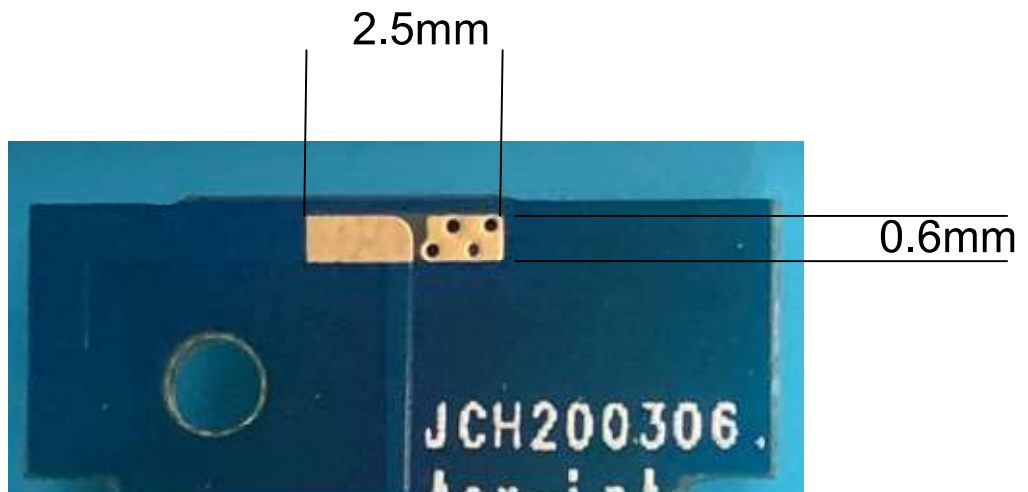
SPECIFICATION _____

Customer part number _____

Approval Date 2023.3.21

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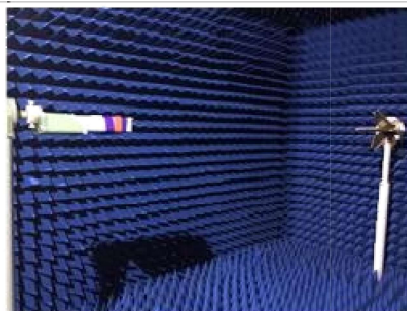
1、 Product physical image



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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)	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

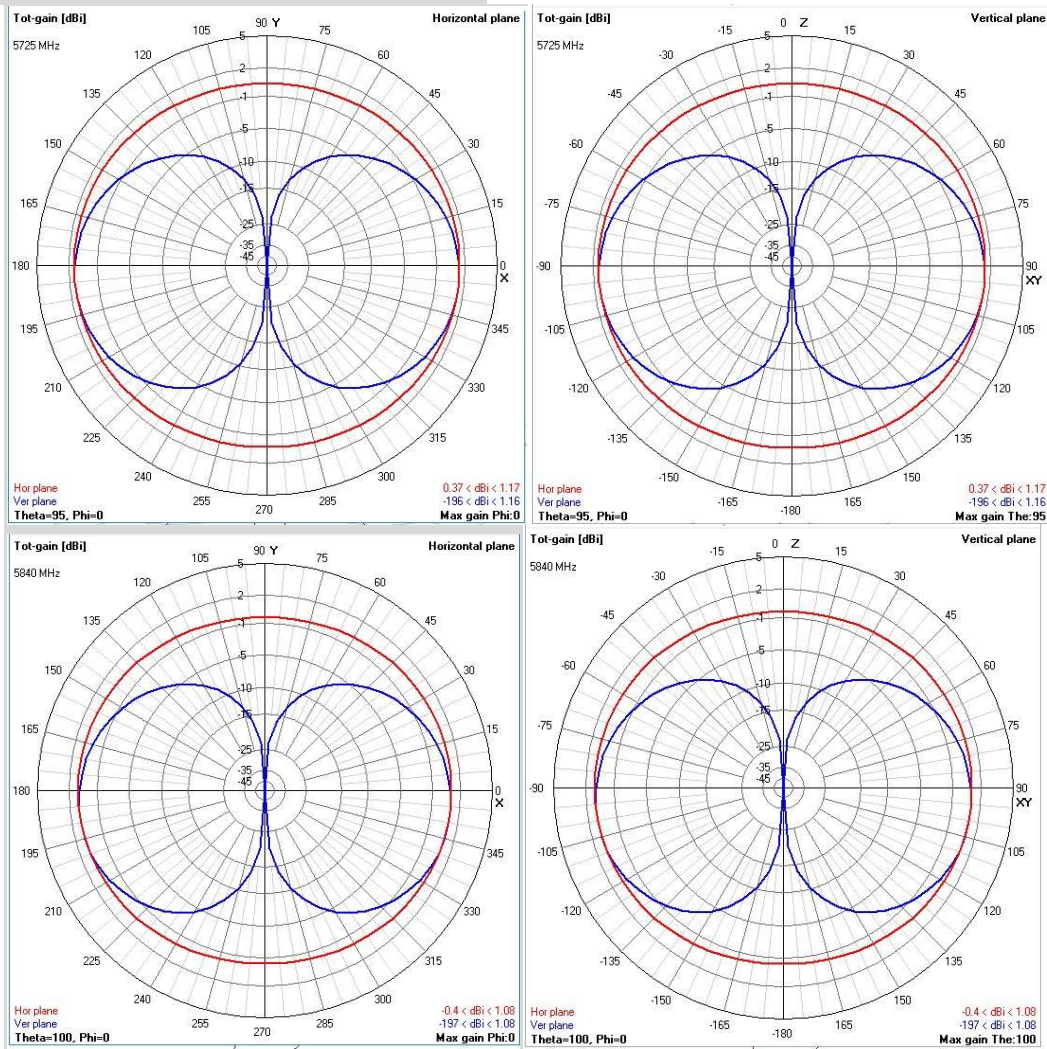


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Main technical specifications	
Frequency Range (MHz)	5825/5850
VSWR	≤ 2.0
Gain (dBi)	1.17
Input Impedance (Ω)	50
Polarization Type	Line polarization
Antenna Length (mm)	20mm
Working Temperature	-40°C~+85°C
Limit Temperature	-30°C~+85°C

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5725Mhz - 5850Mhz : < 1.17 dBi



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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: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$;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