

# SPECIFICATION FOR APPROVAL

**Product:** Connect\_PG1830CR-5.8G-1 green 1.13RF Cable+Iplex, L=45mm

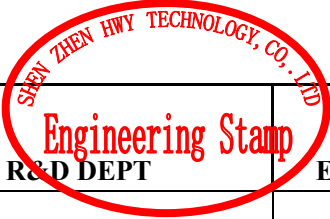
**Model:** HWY-58PCB-2B-1641

**Part Number:** 32030139

**Written By :** Xianjiang Yang

**Issued Date:** 2023.8.4

HWY:

|                                                                                                 |                   |               |
|-------------------------------------------------------------------------------------------------|-------------------|---------------|
| <br>R&D DEPT | ENGINEER R&D DEPT | APPROVED      |
| Xianjiang Yang                                                                                  | Shitong Tang      | Youguang Zeng |

**Address:** No.3 Xianglong Road, Changlong community, Huangjiang Town,

**Dongguan City, Guangdong Province**

**Email:** zyg713@126.com/gendanyuan01@126.com

**TEL:** 0769-81773130 / 186 8030 6792

## Change resume

[illegible]

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## The basic parameters:

### A. Electrical Characteristics

|              |                                 |
|--------------|---------------------------------|
| Frequency    | 5.15 ~5.85GHz                   |
| VSWR         | $\leq 2.0$                      |
| Efficiency   | >40%                            |
| Impedance    | 50 Ohm                          |
| Polarization | Linear                          |
| Gain         | See the test report for details |
| Radiation    | omnidirectional                 |

### B. Mechanical parameters

|                |              |
|----------------|--------------|
| Cable Type     | 1.13mm black |
| Connector Type | I-pex        |
| Dimension      | L=45mm       |
| Antenna Colour | green        |

### C. Operating/ Storage Temperature

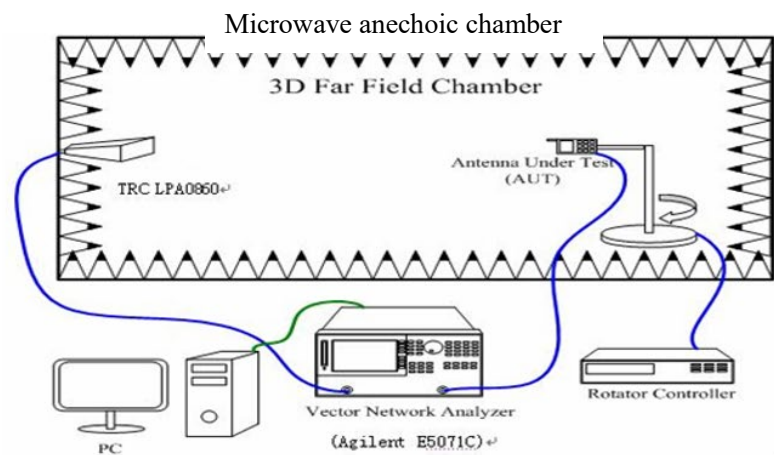
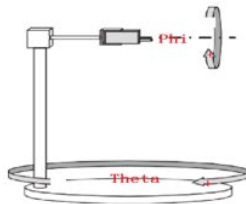
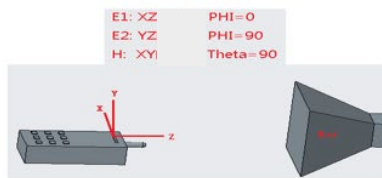
|                       |                   |
|-----------------------|-------------------|
| Operation Temperature | - 20 °C ~ + 65 °C |
| Storage Temperature   | - 40 °C ~ + 80 °C |



## Test Equipment & Conditions

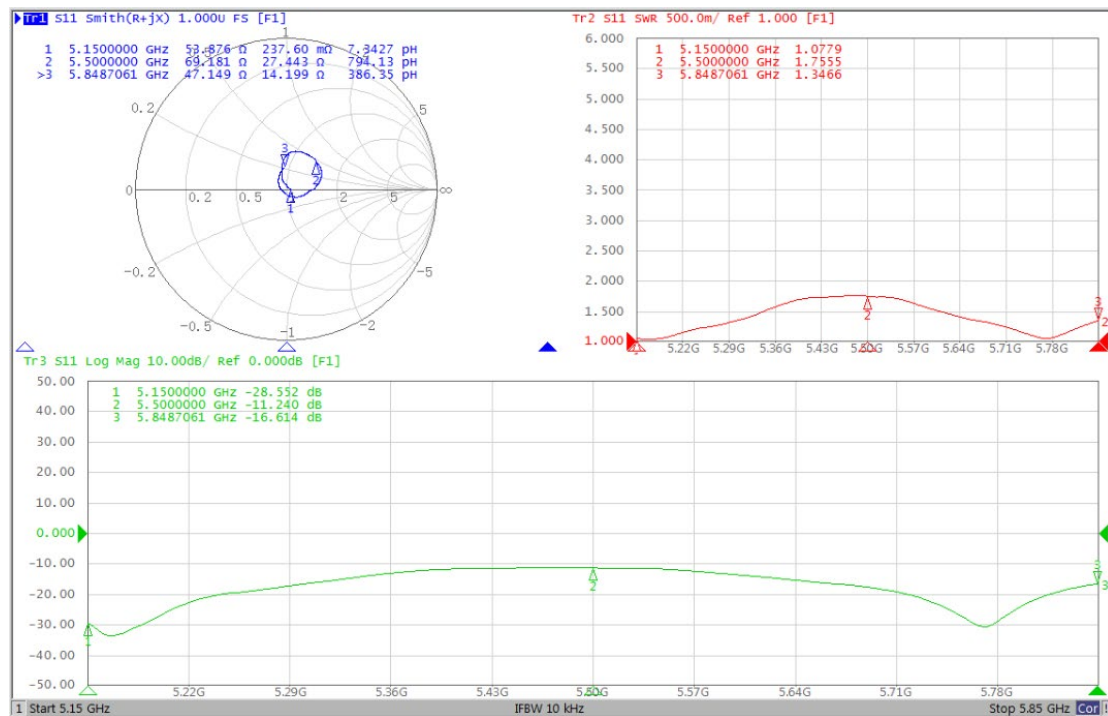
1. Network Analyzers :HP8753D
2. Communications Test Set:
3. 3D Chamber Test System:

### network analyzer:HP8753D



Test Data:

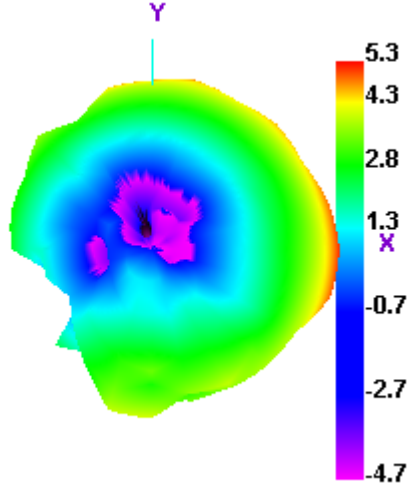
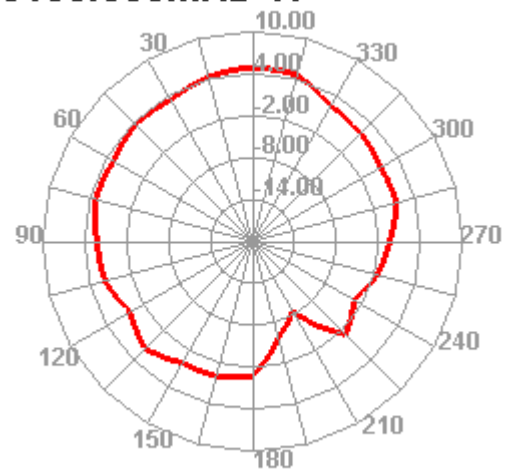
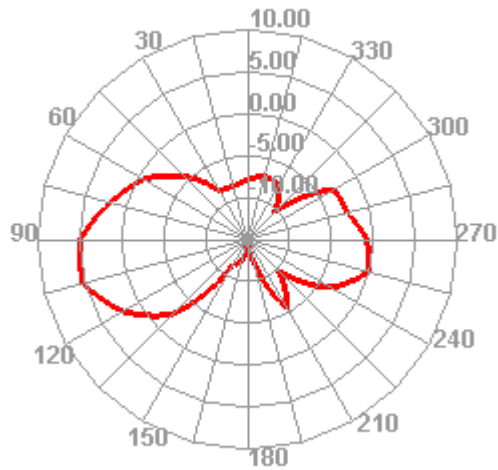
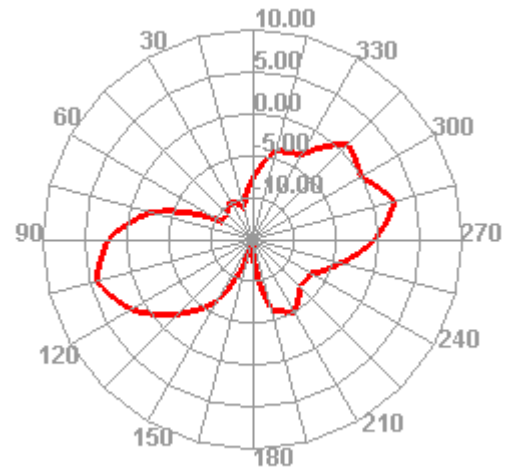
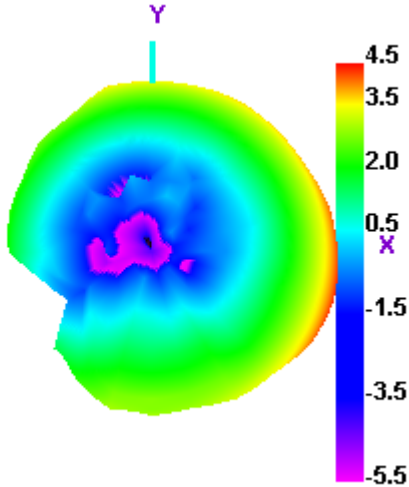
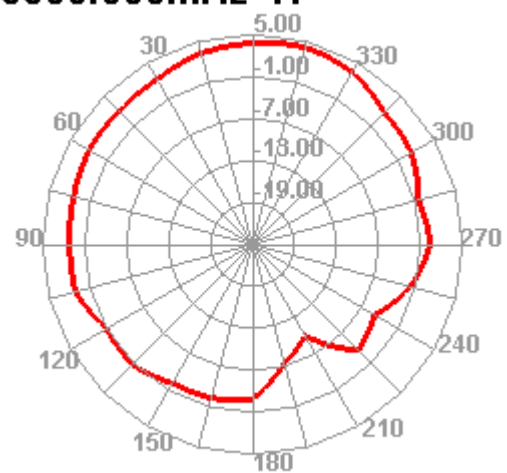
## Reflection loss/ VSWR

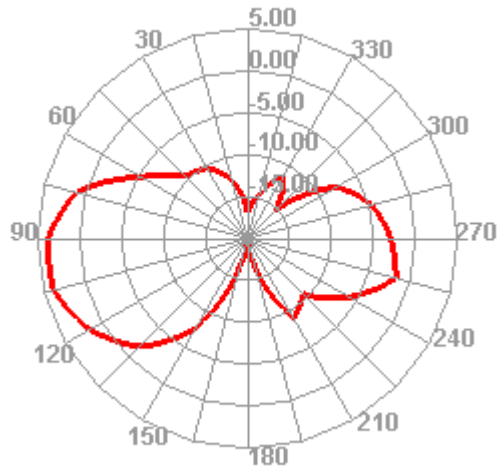
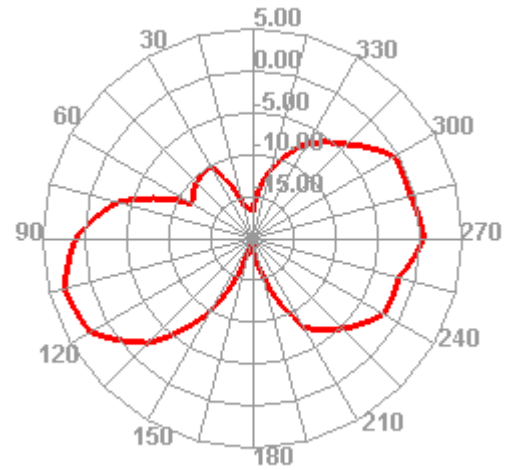
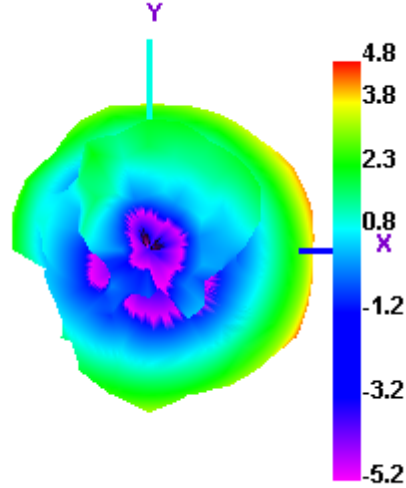
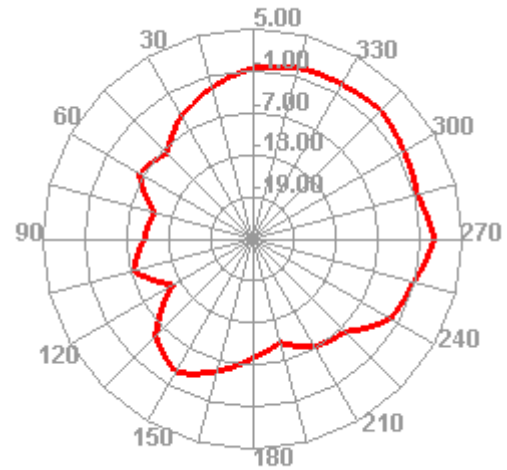
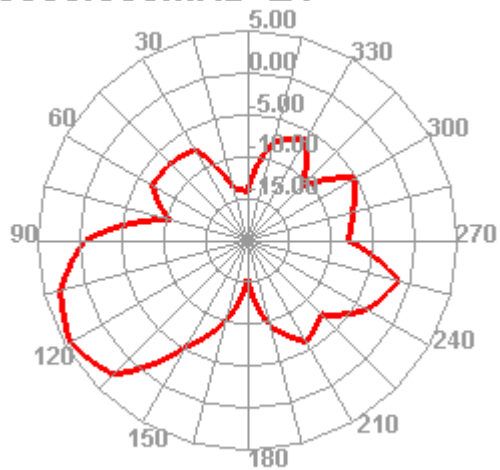
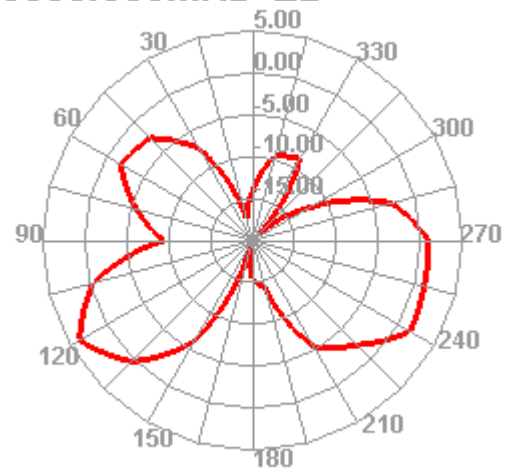


## Efficiency&Gain:

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) |
|---------------|-------------|--------------|---------------|---------------|
| 5150          | 76.35       | -1.17        | 5.28          | 3.13          |
| 5200          | 71.31       | -1.47        | 4.94          | 2.79          |
| 5250          | 71.74       | -1.44        | 4.99          | 2.84          |
| 5300          | 70.82       | -1.5         | 5.01          | 2.86          |
| 5350          | 68.24       | -1.66        | 4.82          | 2.67          |
| 5400          | 63.94       | -1.94        | 4.44          | 2.29          |
| 5450          | 62.85       | -2.02        | 4.31          | 2.16          |
| 5500          | 61.15       | -2.14        | 4.52          | 2.37          |
| 5550          | 63.36       | -1.98        | 4.81          | 2.66          |
| 5600          | 63.56       | -1.97        | 4.98          | 2.83          |
| 5650          | 63.38       | -1.98        | 4.86          | 2.71          |
| 5700          | 55.56       | -2.55        | 4.15          | 2             |
| 5750          | 54.42       | -2.64        | 4.09          | 1.94          |
| 5800          | 54.72       | -2.62        | 4.35          | 2.2           |
| 5850          | 59.13       | -2.28        | 4.82          | 2.67          |

# Patten

**5150.000MHz****5150.000MHz H****5150.000MHz E1****5150.000MHz E2****5500.000MHz****5500.000MHz H**

**5500.000MHz E1****5500.000MHz E2****5850.000MHz****5850.000MHz H****5850.000MHz E1****5850.000MHz E2**

## Antenna picture:

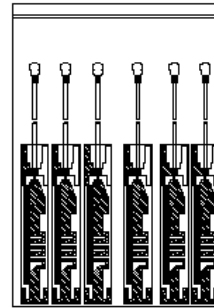


## Product packaging specification

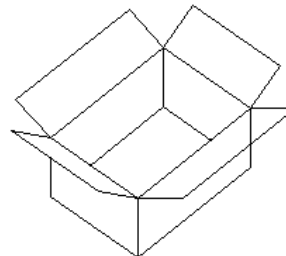
|               |                                          |
|---------------|------------------------------------------|
| Product name: | External antenna                         |
| Description:  | Except for customer special requirements |
| version :     | V0                                       |



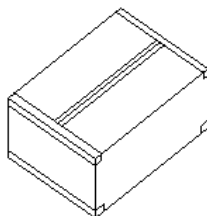
1. Antenna finished product



2. Antenna finished products are packed in PE bags. The quantity is subject to the actual situation.



3. Put the installed antenna into a cardboard box (subject to the actual quantity).



4. Seal the box and affix our company's label or a label as specified by the customer on the outside.