

Sample Acknowledgment Letter

Name: 915MHZ spring antenna

Model: HX-B485

Address: No. 75 Yanghe Road, Yanggongzhou, Shatian Town, Dongguan City

TEL : 0769-81663533      FAX: 0769-89361945

E-mail:nogps@qq.com

Http://www.nogps.cn

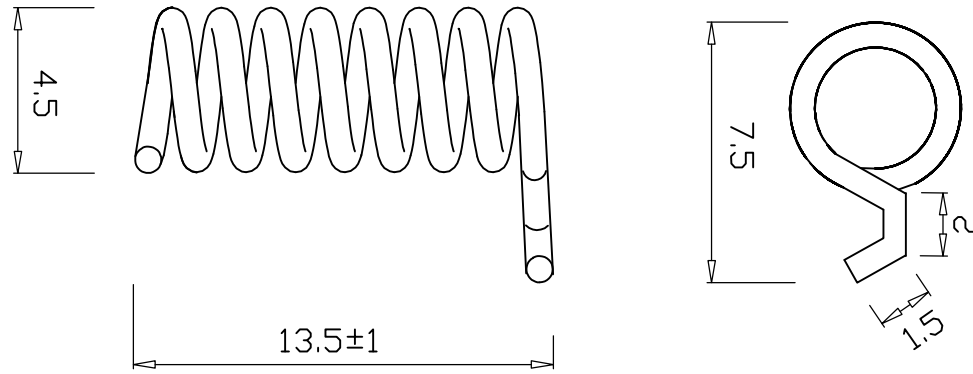
http://hxnogps.1688.com

# Directory

|                                 |   |
|---------------------------------|---|
| 1.Cover-----                    | 1 |
| 2.Directory-----                | 2 |
| 3.Finished product drawing----- | 3 |
| 4.Test report-----              | 4 |
| 5.Cable Specification-----      | 7 |

**RoHS**  
Compatible

| 序号 | 日期 | 原因 | 确认人 |
|----|----|----|-----|
| B  |    |    |     |
| C  |    |    |     |
| D  |    |    |     |



弹簧技术要求 公差:

|        |    |        |       |
|--------|----|--------|-------|
| 弹簧材料   | 黄铜 | 线径     | 0.8mm |
| 旋转方向   | /  | 旋转有效圈数 | 8T    |
| 出脚方式   | 单边 | 孔距     | /     |
| 弹簧上部尺寸 |    |        |       |
| 弹簧下部尺寸 |    |        |       |
| 弹簧高度   |    |        |       |

东莞市亨松电子科技有限公司

PART NAME: 915MHz 弹簧天线

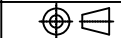
PART NO.: HX-B485

DATE: 2023-05-19

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

UNITS: mm

X.X ±0.50

SCALE: 1/1

X.XX ±0.15

REVISION: A

X° ±3°

**Index:**

- 1. Reliability Testing**
- 2. Specification**
- 3. S Parameter Test Data**
- 4. Antenna Radiation Pattern**



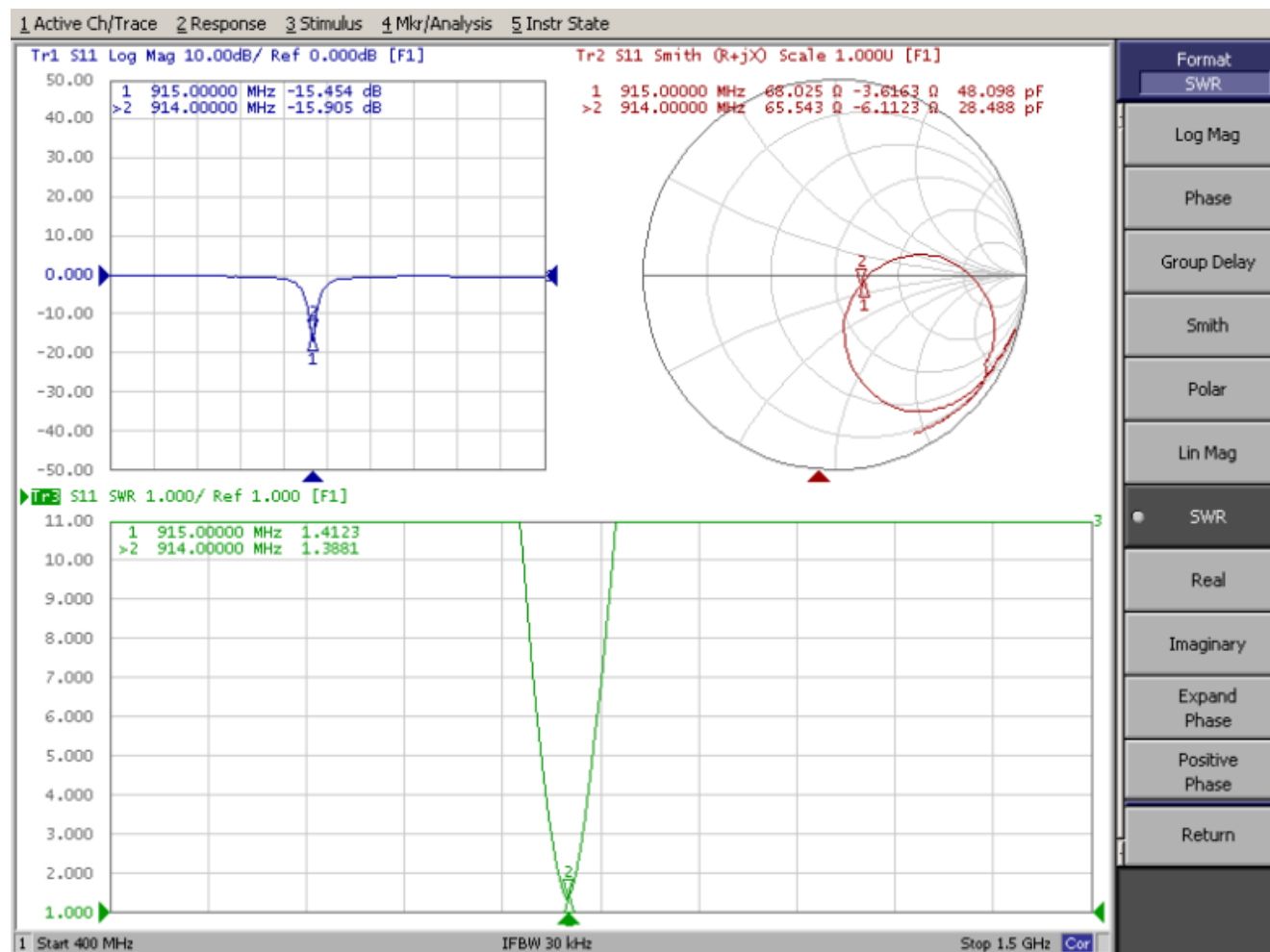
**1. Reliability Testing**

| <b>Test Item</b>                                | <b>Procedure</b>                                 | <b>Requirement</b>  |
|---|--|---|
| <b>1. Visual inspection and Dimension Check</b> | Applicable methods using x5 magnification        | follow specification  |
| <b>2. Rapid Changing of Temperature</b>         | -40°C (30minutes) to 80°C (30minutes); 24 cycles | After 2 hours recovery:<br>1. no visible damage<br>2. bandwidth tolerance < ±5% |
| <b>3. Damp Heat</b>                             | 24 hours at 60°C; 90 ~ 95% RH                    | After 2 hours recovery:<br>1. no visible damage<br>2. bandwidth tolerance < ±5% |
| <b>4. Endurance</b>                             | 24 hours at 80°C                                 | After 2 hours recovery:<br>1. no visible damage<br>2. bandwidth tolerance < ±5% |
| <b>5. Connector Pull Strength Test</b>          | >= 1.0 Kg  | Hold 2~3S:<br>1. no visible damage<br>2. bandwidth tolerance < ±5%              |

## 2. Specification

| A. Electrical Characteristics |  |
|-------------------------------|--|
| S.W.R.( Tested in PC )        | $\leq 2.0 @ 915 \text{ MHz}$                                 |
| Typical Antenna Gain          | $+1.0 \pm 0.5$   |
| Impedance                     | 50 Ohm   |
| B. Material                   |  |
| Material of Radiator          | CU   |
| Connector Type                | N/A  |
| C. Environmental              |  |
| Operation Temperature         | $-30 \text{ }^\circ\text{C} \sim +85 \text{ }^\circ\text{C}$ |
| Storage Temperature           | $-30 \text{ }^\circ\text{C} \sim +85 \text{ }^\circ\text{C}$ |

## 3. S.W.R. Testing Result



#### 4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

