

Hengxin Technology Inc.

## Sample Acknowledgement

Customer: \_\_\_\_\_

Product name: 433MHzSpringantenna

Item No: HX-B100-433

Customer confirmation			Supplier	
Engineering Department	QRA	purchasing department	approval	Sample sender
			赵 守刚	

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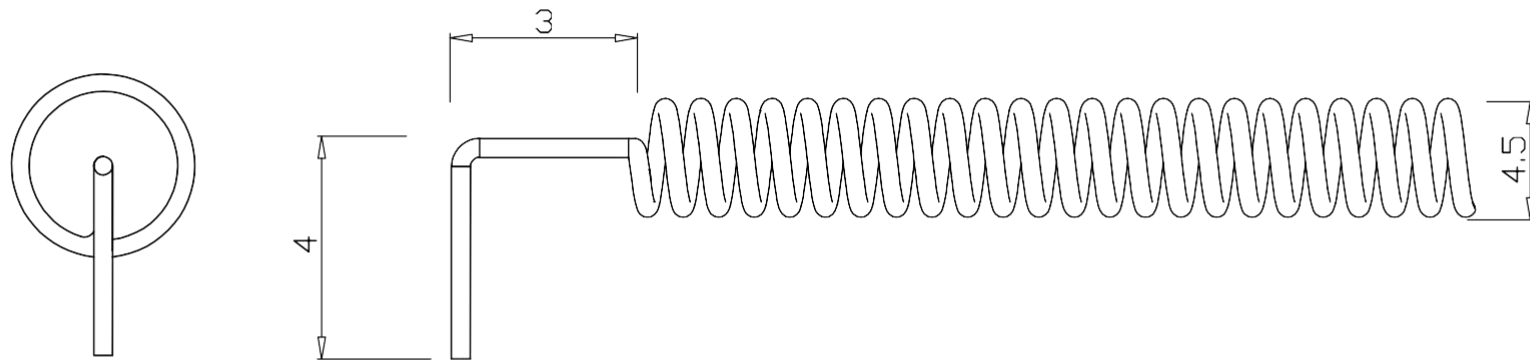
http://hxnogps.1688.com

# catalogue

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**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	0.5mm
旋转方向	/	旋转有效圈数	23T
出脚方式	中间出线	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: 433MHz弹簧天线			DATE: 2022-02-11	
PART NO.: HX-B100 .W01				
APPROVED BY	CHECKED BY	DESIGNED BY	 Tolerance X.X ±0.50 X.XX±0.15 X° ±3°	UNITS: mm SCALE: 1/1 REVISION:A
 赵刚 2017.12.14	 李红 2017.12.14	张雅军		

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**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: 1. no visible damage 2. bandwidth tolerance < ±5%
<b>3. Damp Heat</b>	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
<b>4. Endurance</b>	24 hours at 80°C	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
<b>5. Connector Pull Strength Test</b>	>= 1.0 Kg	Hold 2~3S: 1. no visible damage 2. bandwidth tolerance < ±5%

## 2. Specification

A. Electrical Characteristics	
S.W.R.( Tested in PC )	$\leq 2.0 @ 433\text{Hz}$
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

