



Dongguan Hengxin Electronics Technology Co., Ltd.

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letter of acknowledgment

guest Household: _____

Taste name: **433MHz spring antenna**

material Number: **HX-B1201**

Customer Part Number: _____

Sample delivery date: **2026.03.17**

Customer confirmation			Suppliers	
Engineering Department	Quality Assurance Department	Purchasing Department	Approval	Sample sender
			Zhao 2026.03.17 Shougang	Gong Yinming

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

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http://www.nogps.com

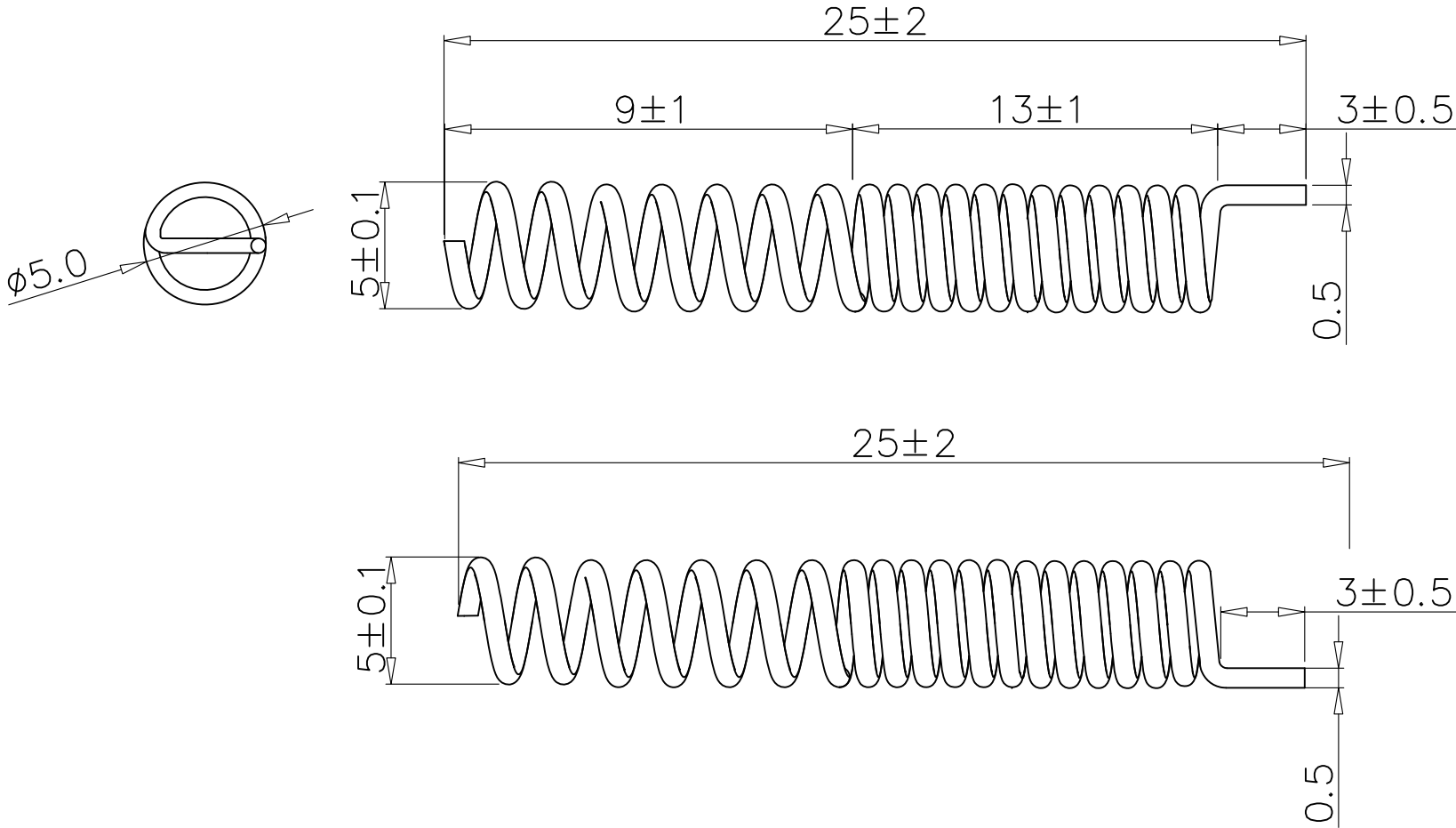
ANTTYPE : Spring antenna

Manufacturer : Zhengzhou Chijing Intelligent Technology Co., Ltd.

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序号	日期	原因	确认人
B			
C			
D			



弹簧技术要求

公差:

弹簧材料	碳钢	线径	0.5mm
旋转方向	/	旋转有效圈数	19T
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: 433MHZ弹簧天线(发射端)

PART NO.: HX-B1201

DATE: 2025-12-25

APPROVED BY

CHECKED BY

DESIDNED BY



Tolerance



张雅军

UNITS: mm

SCALE: 1/1

REVISION: A

X.X ± 0.50

X.XX ± 0.15

X° $\pm 3^\circ$

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===== 1.

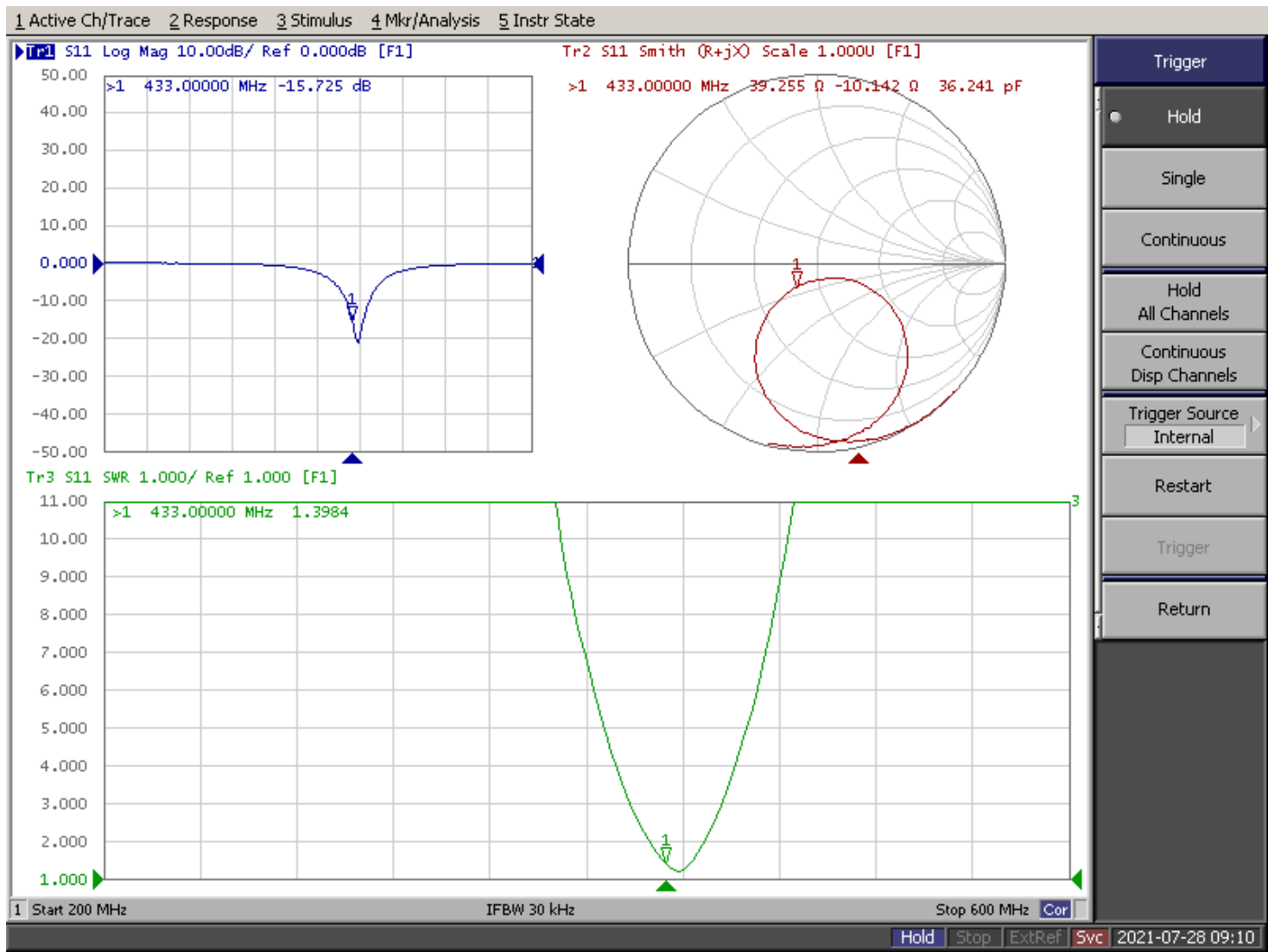
Reliability Testing

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

2. Specification

A. Electrical Characteristics	
SWR (Tested in PC)	<= 2.0 @ 433MHz
Typical Antenna Gain	+1.0±0.5
Impedance	50 Ohm
B. Material	
Material of Radiator	CU
Connector Type	N/A
C. Environmental	
Operating Temperature	-30°C ~ +85°C
Storage Temperature	-30°C ~ +85°C

3. SWR 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

