



東莞市亨松電子科技有限公司

Dongguan Hengxin Electronic Technology Co., Ltd.

acknowledgment

Product Name: 433MHZ spring antenna

Part Number: HX-B990

datelanded: 2025.06.24

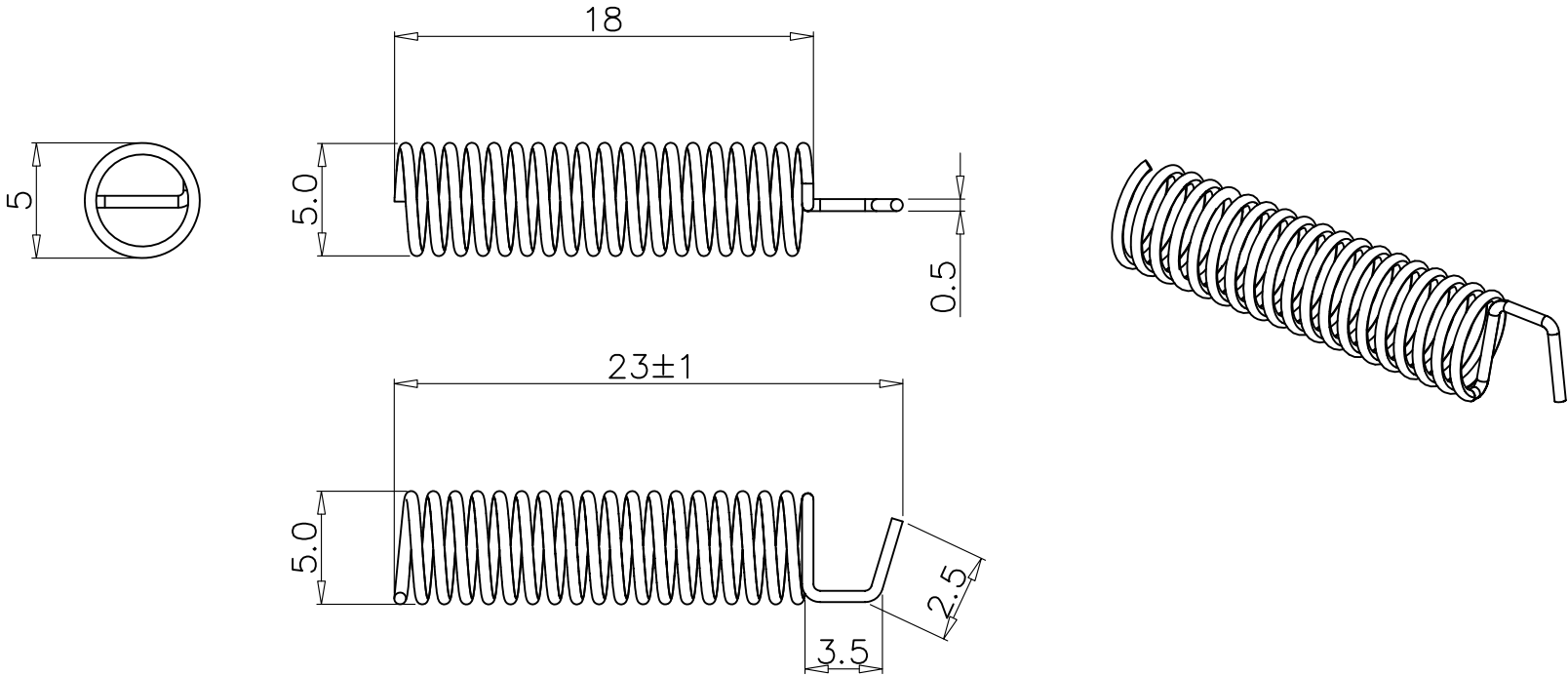
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RoHS
Compatible

序号	日期	原因	确认人
B			
C			
D			



PART NAME:			
PART NO.: HX-B990			DATE: 2025-06-24
APPROVED BY	CHECKED BY	DESIGNED BY	
		张雅军	Tolerance
			X.X ±0.50
			UNITS: mm
			SCALE: 1/1
			REVISION: A
			X.X ±0.15
			X° ±3°

Index:

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

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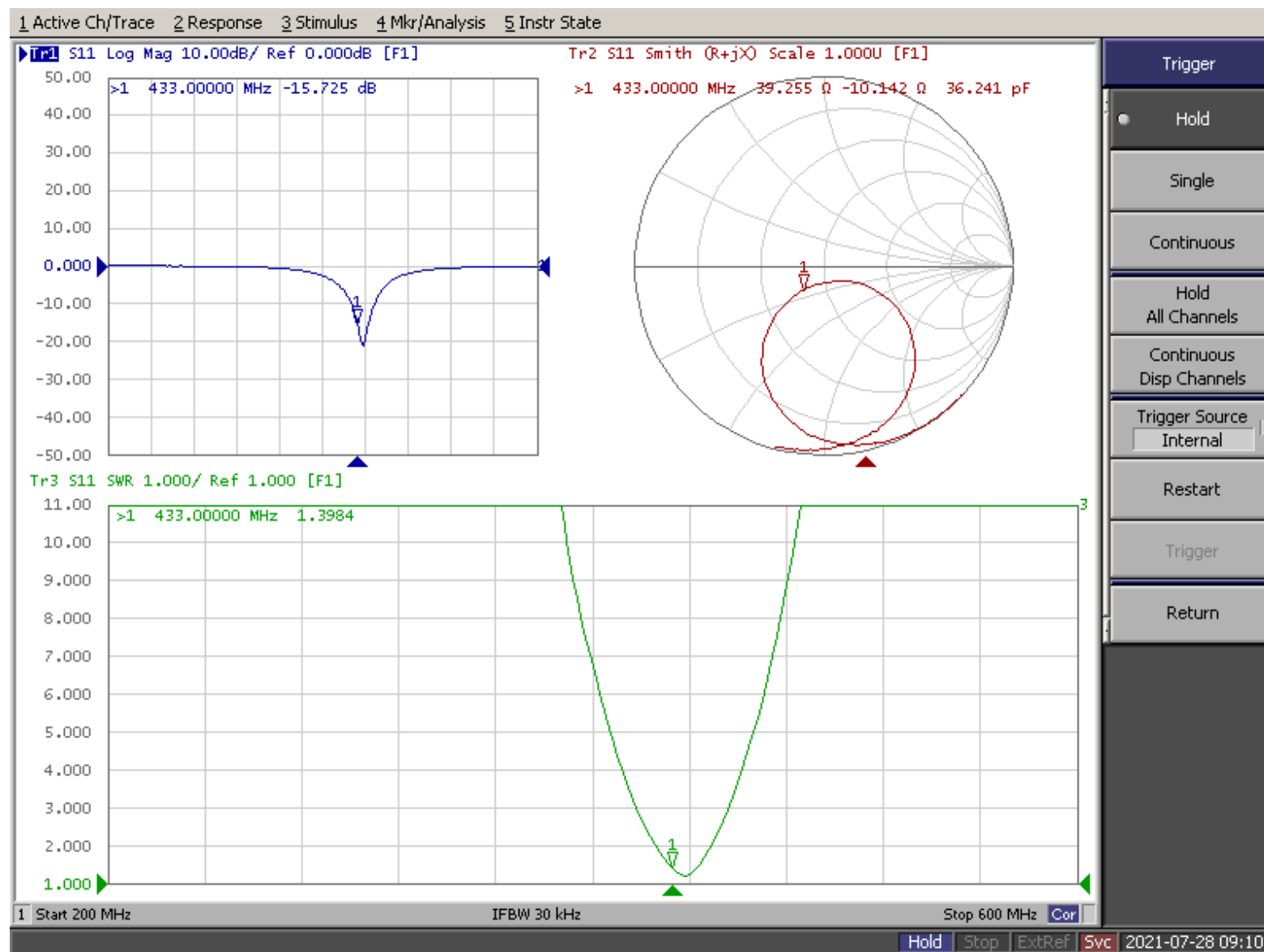
1. Reliability Testing

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 2~3S: 1. no visible damage 2. bandwidth tolerance < ±5%

2. Specification

A. Electrical Characteristics	
S.W.R.(Tested in PC)	≤ 2.0 @ 433Hz
Typical Antenna Gain	3dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	CU
Connector Type	N/A
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °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

