



東莞市亨松電子科技有限公司

Dongguan Hengxin Electronic Technology Co., Ltd.

承認書

客 戶:

品 名:

2.4G 彈簧天线

料 號:

HX-B981

客戶料號:

送樣日期:

2025.06.19

客戶確認			供應廠商	
工程	品保	採購	核准	送樣人
			趙 2025.06.19 守 剛	龚银明

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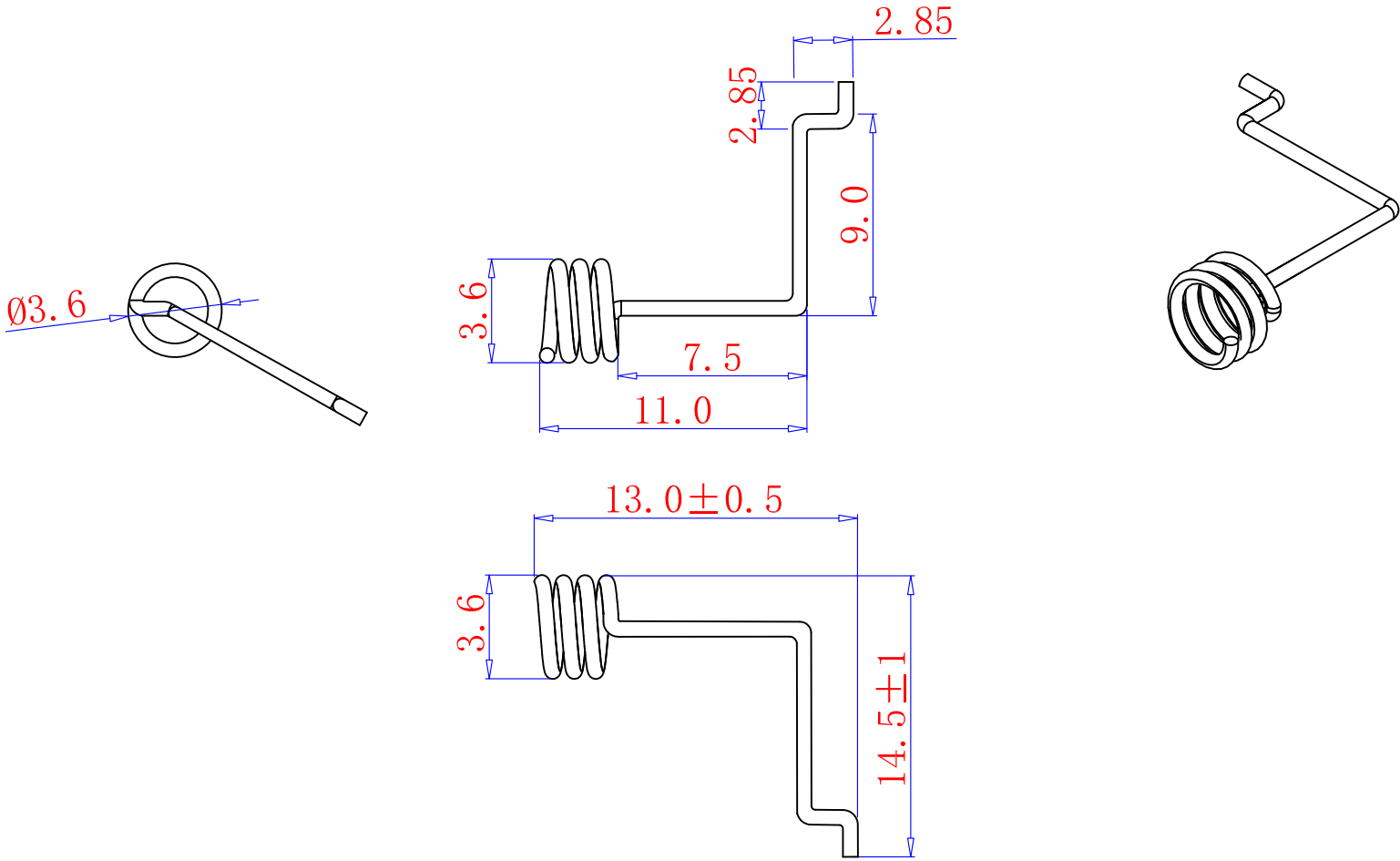
Add:No. 75, Yanghe Road, Yanggongzhou, Shatian Town, Dongguan City

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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	磷铜	直径	0.6mm
旋转方向	/	旋转有效圈数	3T
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: 弹簧天线				
PART NO.: HX-B981			DATE: 2025-06-19	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance
		卓靖婷	UNITS: mm	X.X ±0.50
			SCALE: 1/1	X.XX±0.15
			REVISION:A	X° ±3°

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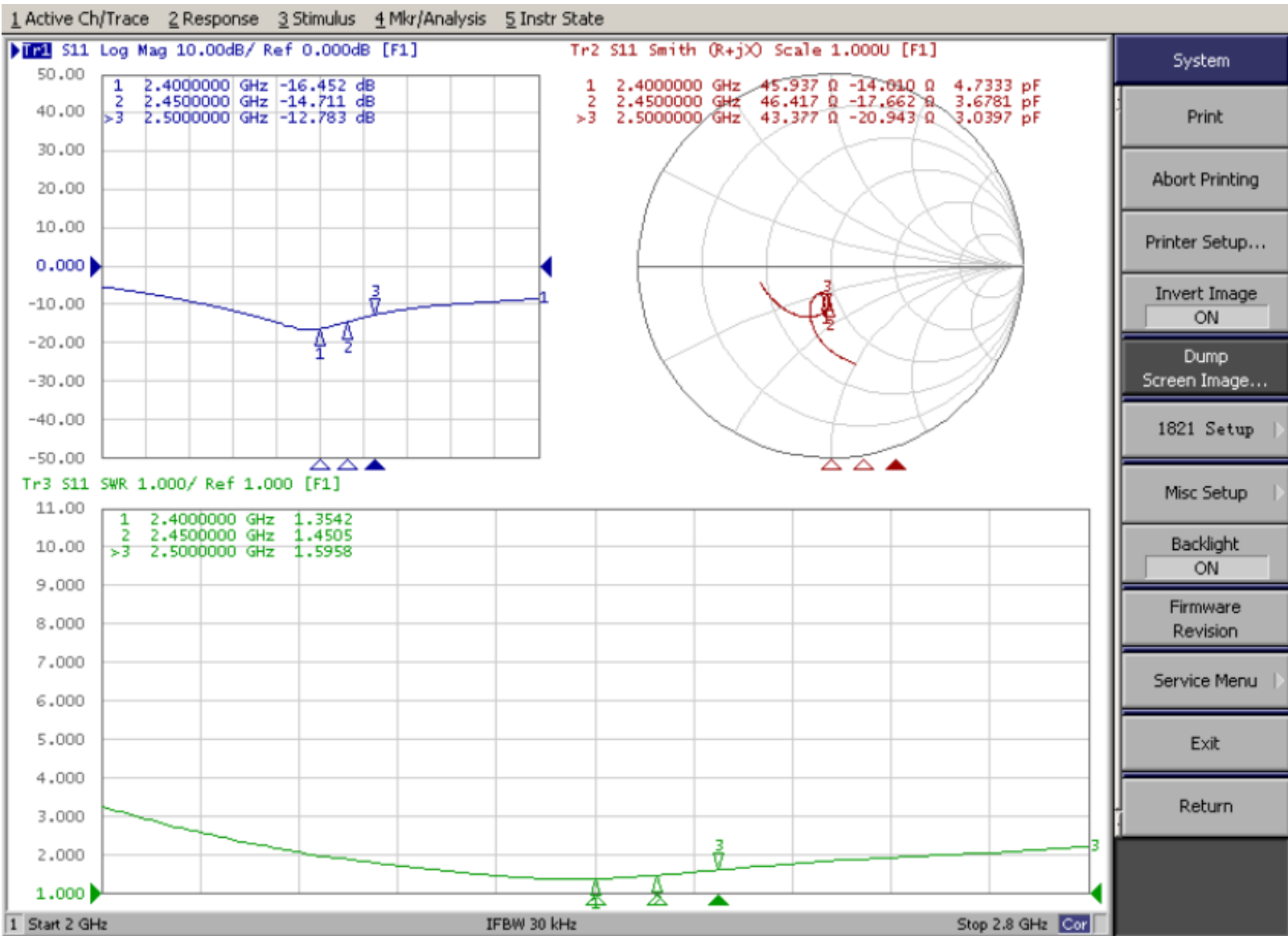
1. Reliability Testing

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 @ 2400~2500 MHz
Typical Antenna Gain	1.0 ± 0.5dBi
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

