

Shenzhen Red Heart technology Electronics Co., LTD

## Product acknowledgement

SPECIFICATION FOR APPROVAL

Company name: Zhongshan Yuan Shangyuan Lighting Co.,ltd

Brand name: Spring antenna

Part number (P/N): HX-TH04433-06 (With heat shrink tube)

specification See specification

date: 2025-04-03

Shenzhen Red Heart technology Electronics Co., LTD:

Engineering department	Quality department	watchmaker
Zhuang Weifeng	Zhang Huan	Chen Yuan

## 一: Antenna parameter

Design Specifications	Typical	Units
Antenna form		
工作频率 (working Frequency)	2402-2480-	MHZ
增益( Gain)	3	DBi
天线效率 (Antenna efficiency)	35~80	%
电压驻波比 (VSWR )	<1.8	
极化方式 (Ploriaztion)	Vertical polarization	
辐射方向 (Radiation pattern)	omnidirectional	
馈电阻抗 (impedance)	50	ohm
天线接口 (Interface)	/	
天线尺寸 (Overall dimensions)	/	mm
重量 (Weight)	No requirement	
工作温度 (Operatin Temp)	-30-70	℃
储存温度 (Storing Temp)	-30-70	℃

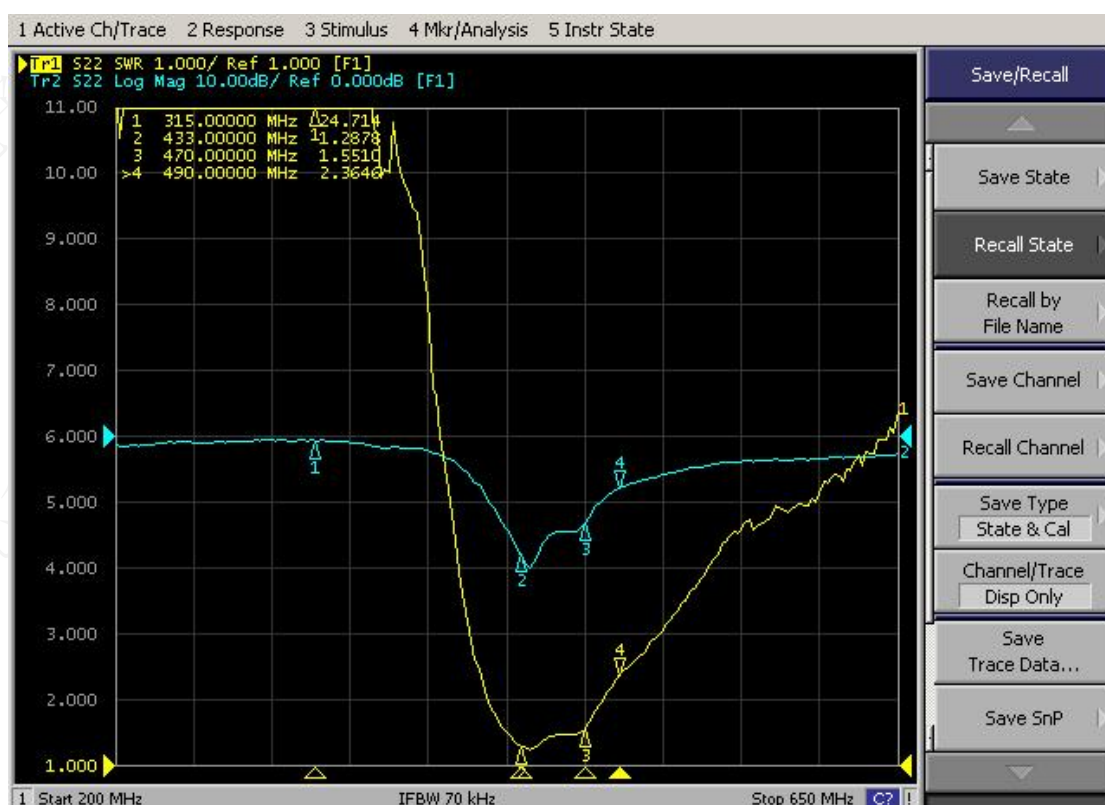
## 二: Antenna diagram



Note: 1. Antenna parameters are tested according to the simulated environment, and there will be performance deviations for different products

2. Antenna function is more sensitive, the main body surrounding structure changes, please inform us to evaluate

## 三: VSWR (电压驻波比) /Return Loss (回波损耗) /Smith Chart

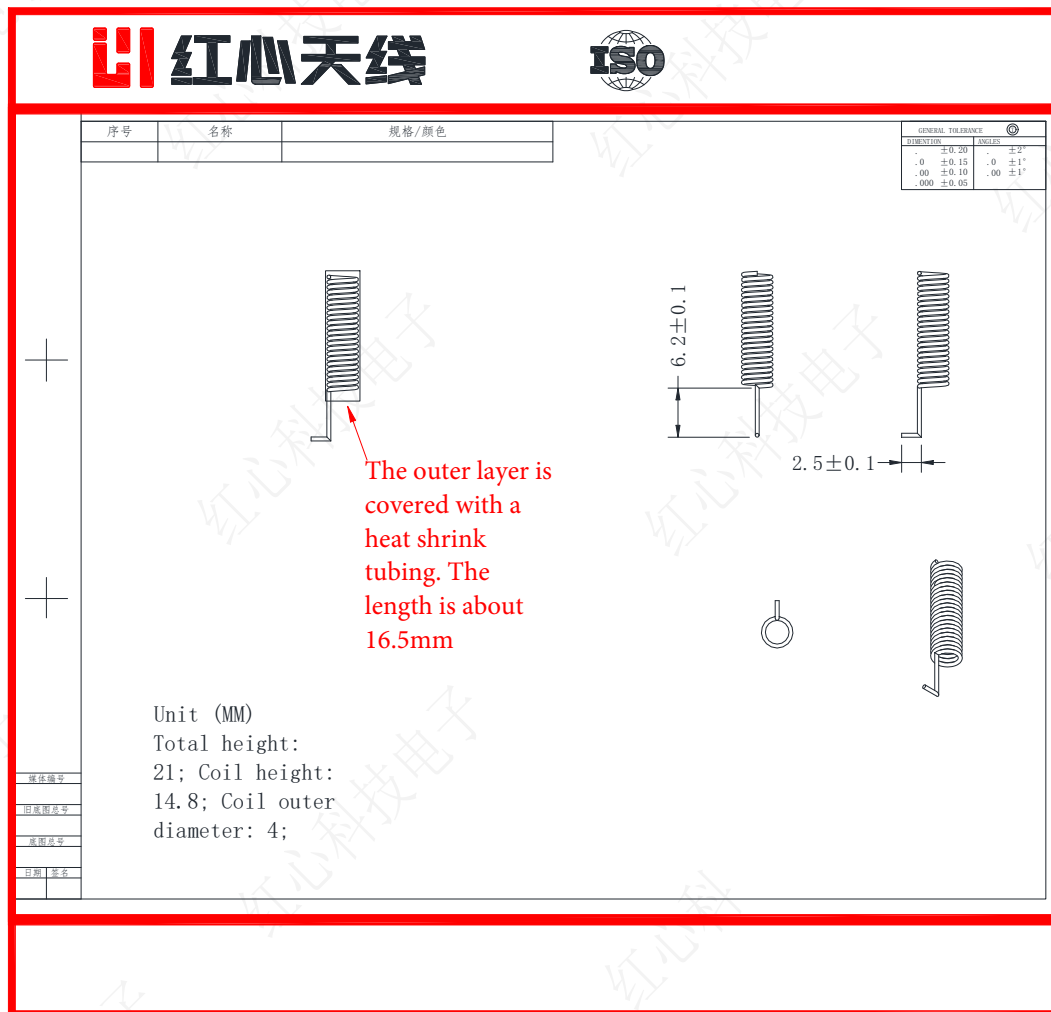


## 四: Storage environment

Operating temperature: -30 to 70°C

Storage temperature: -30 to 70°C

## 五: Size specification



## 六: Matters needing attention

- 1、Do not apply much mechanical stress to the product components, do not attempt to bend or disassemble and reassemble the component products, as this will cause damage to the product components or parts.
- 2, the product should not be directly exposed to open flame.
3. This specification only applies to the function of HX-TH04433-06 (with heat shrink tube) product as a single unit.