

HantTH2400-01 Antenna Specification

2400Mhz universal spring antenna

Chapter 1 Product introduction

HantTH2400-01 is a spring-loaded built-in antenna operating at 2400Mhz. The total length of the antenna is 6mm, the helix diameter is 4.5mm, and the wire diameter is 0.6mm. The antenna is stainless steel nickel-plated. This antenna is suitable for all kinds of antenna with 2400Mhz frequency built-in electronic products, communication equipment, etc.

Chapter II Specification parameters

Electrical parameter	
Center frequency	2450Mhz
Antenna bandwidth	2400Mhz-2500Mhz
Antenna gain	3dBi
Standing wave ratio	<1.6
Direction of polarization	Vertical polarization
Radiation direction	omnidirectional
Input impedance	50Ω
Maximum power	10W
Other parameters	
Antenna length	6mm
Spiral diameter	4.5mm
Line diameter	0.6mm
Antenna material	Nickel plating of stainless steel
Interface specification	Welded joint
Operating temperature	-40°C~ +80°C

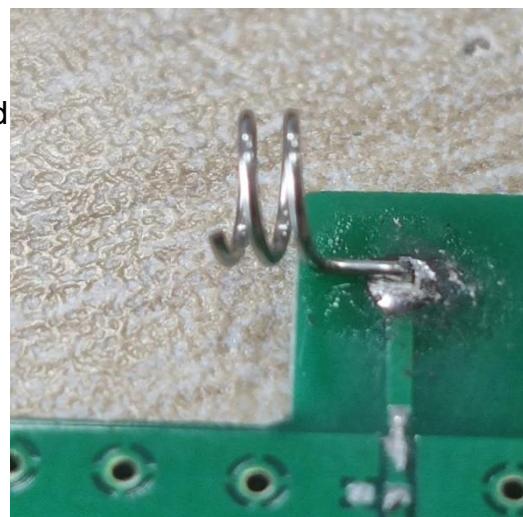


Chapter three reference design

The general reference design is shown on the right

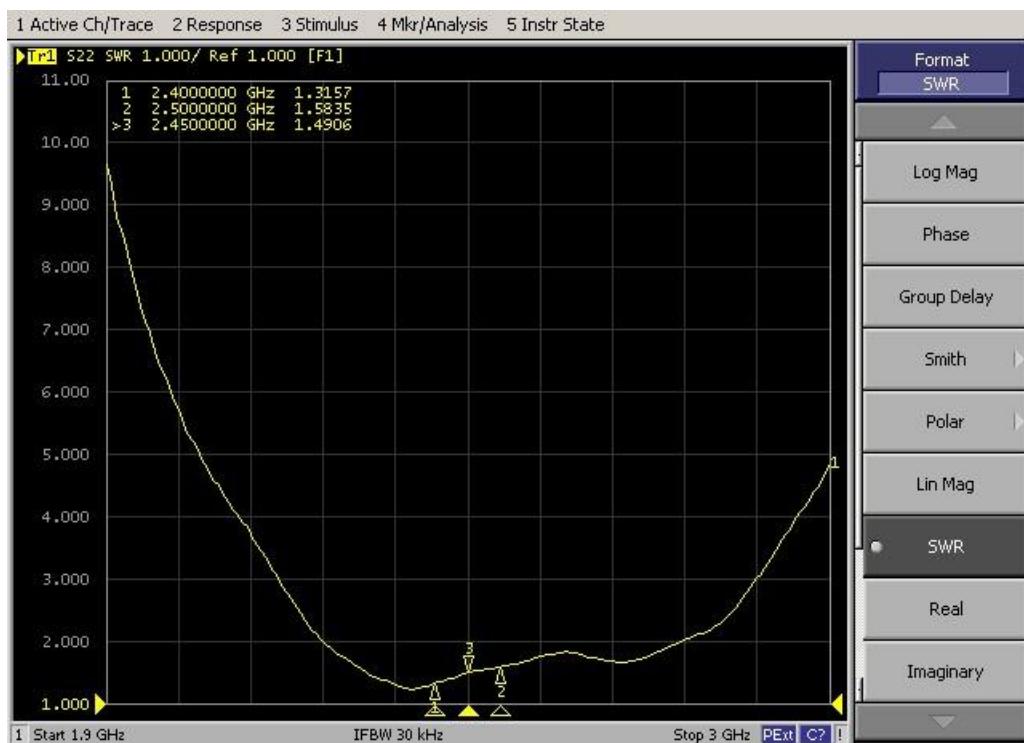
The PCB under the antenna body should not be laid on the floor (as shown in the picture on the right).

It is not recommended to lay ground around the antenna pad, and it is recommended to keep a spacing of more than 1mm between the ground around the pad and the pad.

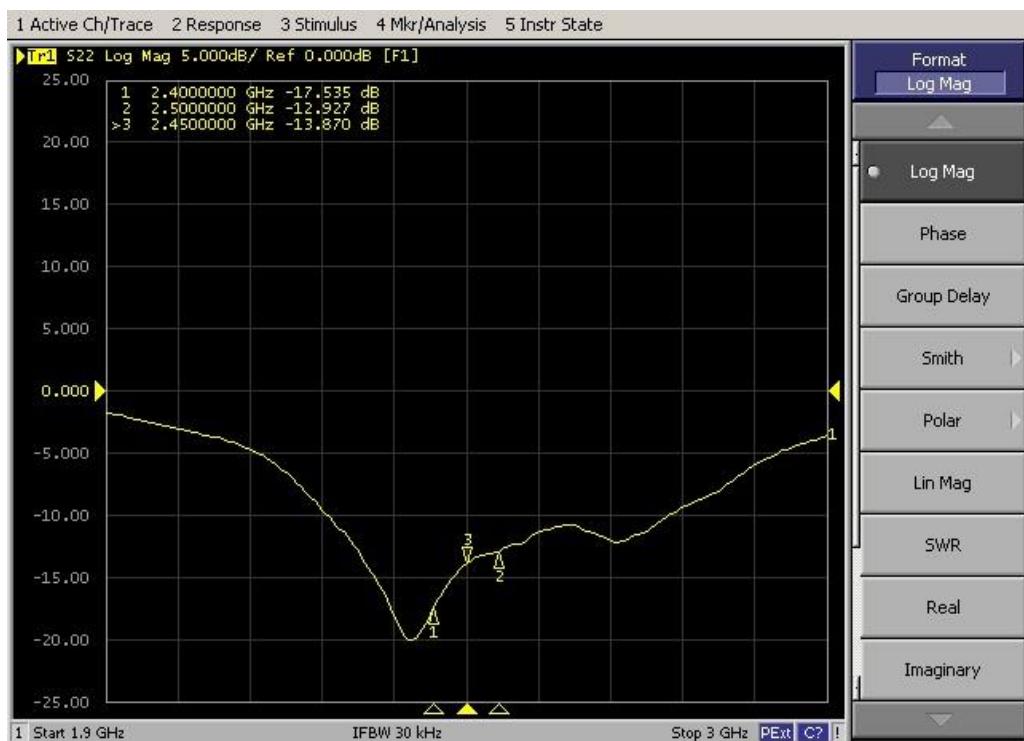


Chapter 4 Antenna characteristics

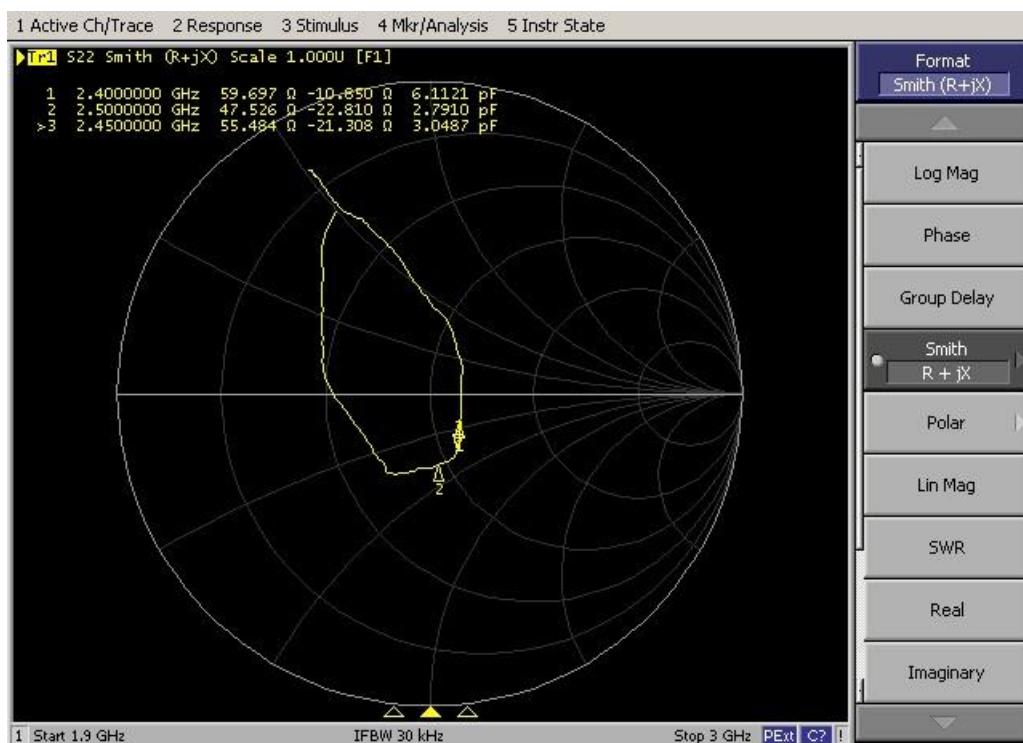
VSWR



Return Loss



Smith Chart



Chapter Five points for attention

1. The spring antenna should be welded in the corner of the circuit board or the edge area, the bottom of the antenna body can not be paved PCB board
2. Do not place any conductor material within 5mm (except the circuit board) around the antenna. The farther away the antenna is from the conductor, the better.
3. It is recommended that the antenna welding directions be consistent. Different welding directions may result in different antenna performance.
4. The impedance of the antenna may be offset due to the structural differences of different customer products. In such case, please contact our company for technical support.