



SW433-TH32DN Spring Antenna Specification

Nickel-Plated Steel Spring Antenna



Chengdu Ebyte Electronic Technology Co., Ltd.

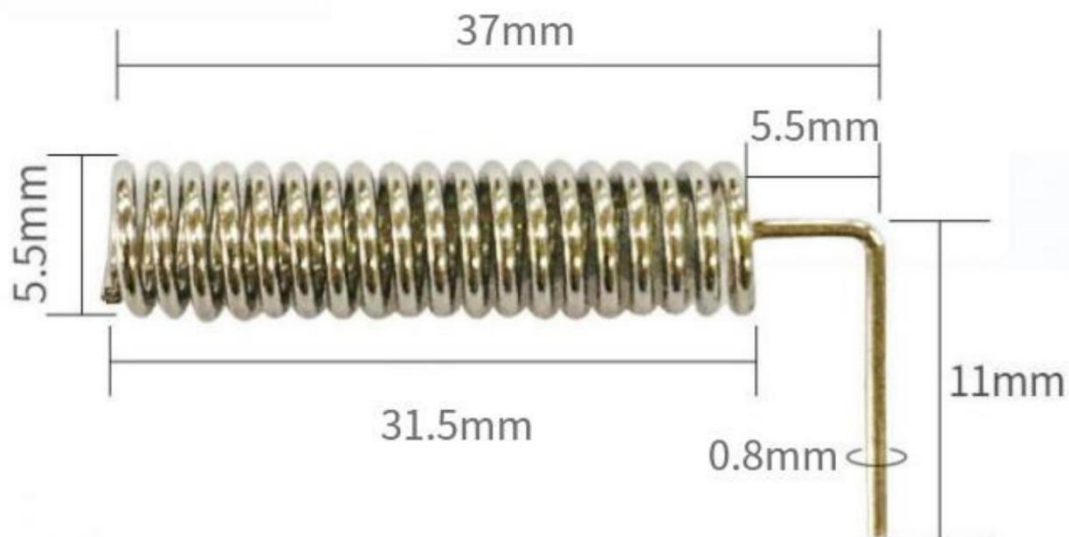
Chapter 1 Product Overview

The SW433-TH32DN is a nickel-plated steel spring antenna.

Chapter 2 Specifications

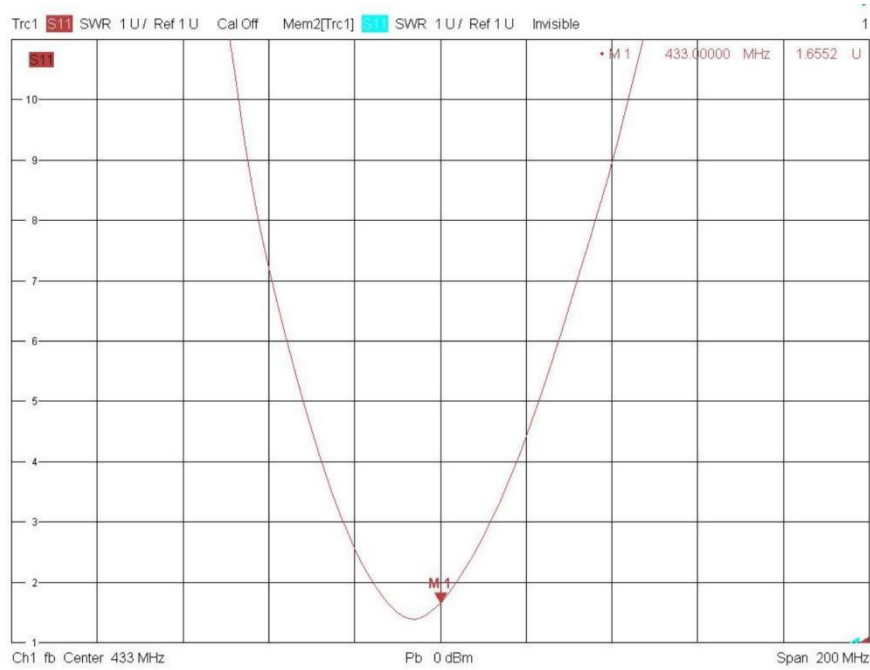
Basic Parameters	
Frequency	433 MHz
Impedance	50 Ω
Connector Type	Solder (Through-Hole)
Antenna Gain	1 dBi
Material	Nickel-Plated Steel
Antenna Dimensions	Coil Diameter: 5.5 mm, Wire Diameter: 0.8 mm, Total Length: 37 mm

Chapter 3 Mechanical Dimensions

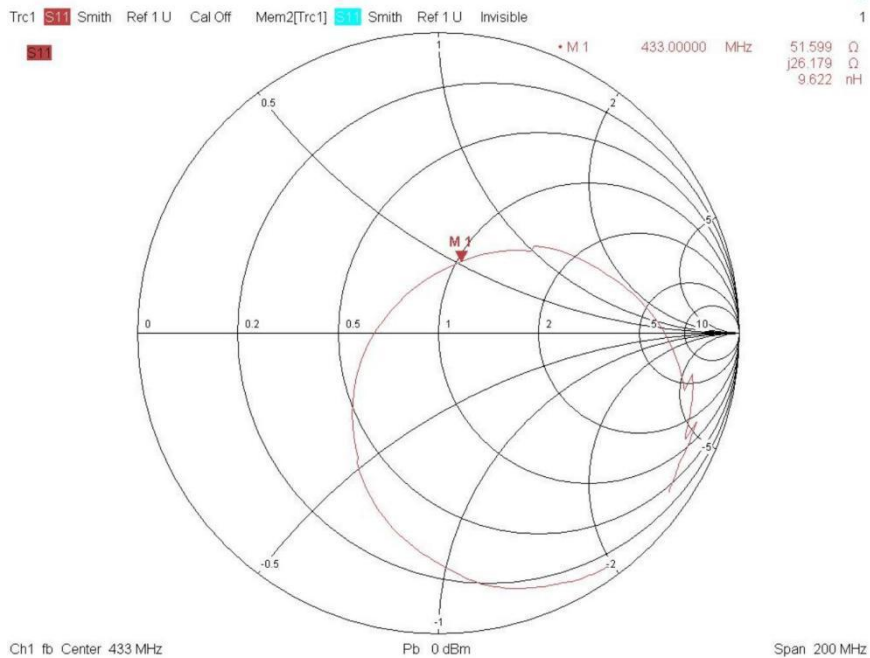


Chapter 4 Antenna Characteristics

Voltage Standing Wave Ratio (VSWR)



Smith Chart



The above test data were obtained with the antenna measured in free air and are provided for reference only.

Chapter 5 FAQ

- The antenna frequency must match the operating frequency of the wireless device; a mismatch will result in degraded communication performance.
- The lower the operating frequency, the longer the wavelength, and the better the diffraction capability.
- When a line-of-sight obstruction exists in the communication path, the effective communication range will be reduced accordingly.
- Pay attention to the antenna radiation pattern; incorrect antenna orientation will result in reduced transmission range.
- The ground absorbs radio waves; testing in close proximity to the ground yields poor results — elevating the antenna is recommended.
- Seawater has an extremely high capacity for absorbing radio waves; therefore, testing in coastal environments produces poor results.
- The presence of metallic objects near the antenna, or installation within a metallic enclosure, will cause severe signal attenuation.
- Poor impedance matching between the antenna and the communication device will result in degraded communication performance.

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