

Antenna Spring



A Spring antenna or helical antenna is an antenna consisting of one or more conducting wires wound in the form of a helix. A helical antenna made of one helical wire, it has been widely used in telecommunication to communicate. This antenna has a frequency range of 865MHz to 868MHz with a gain of 1.5dBi depending upon the PCB ground plane. One of the main reasons to use a helix antenna is its low cost and compact size.

FEATURES:

- Compact Size.
- Low Cost.
- Right Angle version available on request
- Tin and Nickel plated for corrosion-free.
- Antennas with a rubber sleeve to protect from sparks.

SPECIFICATION:

- Frequency (MHz): 865 – 868 MHz
- Gain: ~ 1.5 dBi (depends on PCB ground plane)
- Impedance (Ω): 50
- VSWR: <1.5
- Polarization: Vertical
- Power Handling (W): 10
- HPBW: H: 3600; V: 300
- Connector: Direct Solder
- Operating Temperature ($^{\circ}\text{C}$): -20 to 60
- Humidity: 5 – 95%
- Length (mm): 11
- Diameter (mm): 5.5
- Weight (gm): 0.8

APPLICATIONS:

- Sub GHz
- Smart Meters
- Long Range (LoRa)
- Low Power Radio (LPR)