

915MHz Copper Spring Antenna

Product Specification



Catalogue

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Note: Revision History

| Revision | Date | Comment |
|----------|---------|-----------------------------------|
| V1.0 | 2014-12 | First release |
| V2.0 | 2016-06 | Typesetting, measurements revised |
| V2.1 | 2017-06 | Logo updated |
| V2.2 | 2019-6 | Update size |
| | | |
| | | |

1. Description

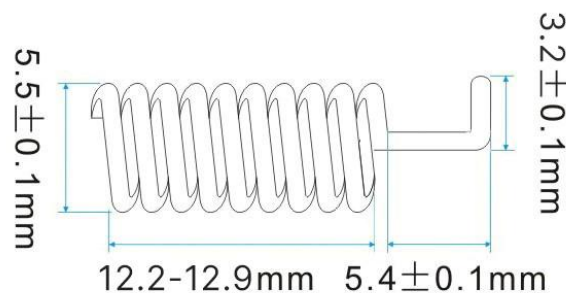
SW915-TH12, a copper spring antenna, is designed specially for 915MHz wireless communication. It has good VSWR, Compact dimensions, easy installation, stable performance, with good anti-vibration and anti-aging ability.

It complied with and passed ROHS certification.

2. Technical Parameter

- Frequency Range: 915 MHz
- VSWR: ≤ 1.5
- Gain: 0.66 dBi
- Input impedance: 50 Ω
- Max power: 5 W
- Height: 12.5 ± 1 mm
- Interface form: welding directly
- Antenna Color: copper
- Weight: 1 g
- Wire diameter: 0.8mm

3. Size



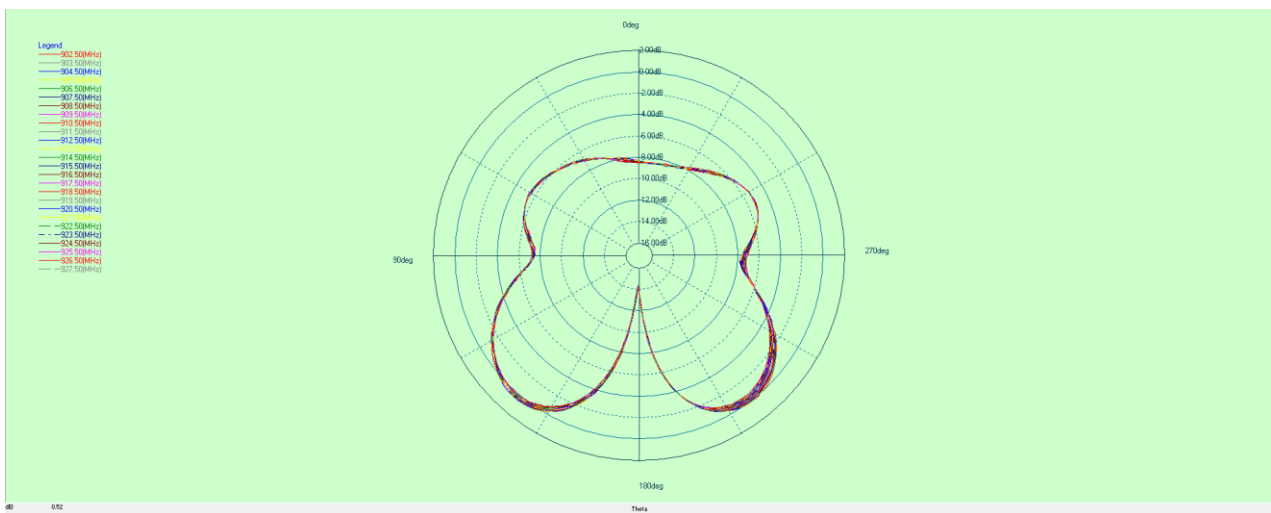
4. Gain, 2D&3D Radiation Pattern

4.1 Gain

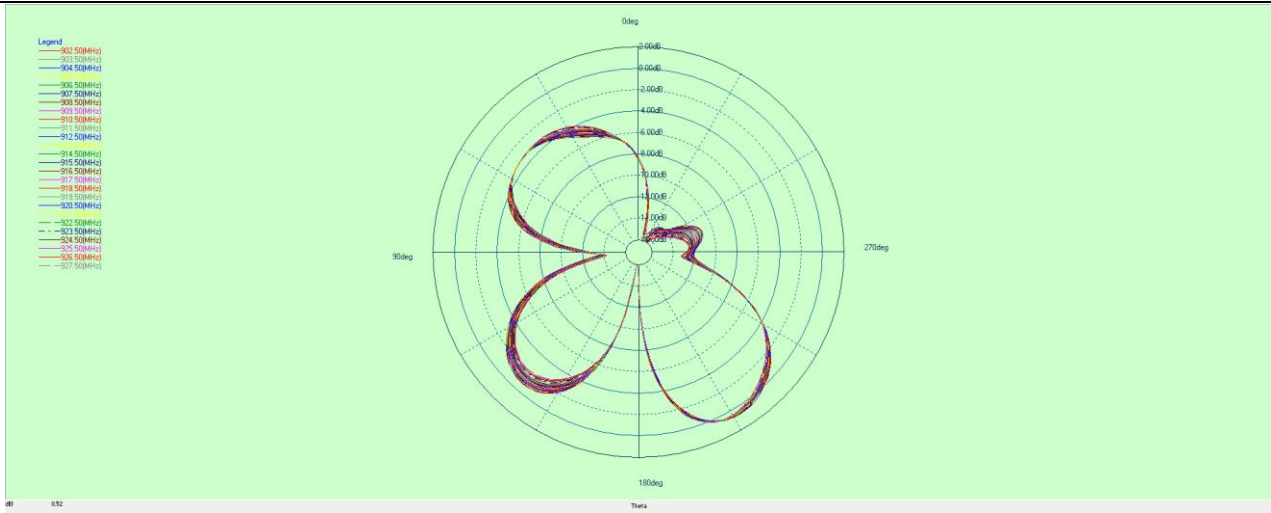
| Frequency (MHz) | Gain (dBi) |
|-----------------|------------|
| 902.5 | 0.65 |
| 903.5 | 0.66 |
| 904.5 | 0.66 |
| 905.5 | 0.65 |
| 906.5 | 0.64 |
| 907.5 | 0.62 |
| 908.5 | 0.60 |
| 909.5 | 0.58 |
| 910.5 | 0.57 |
| 911.5 | 0.54 |
| 912.5 | 0.52 |

| | |
|-------|------|
| 913.5 | 0.51 |
| 914.5 | 0.50 |
| 915.5 | 0.49 |
| 916.5 | 0.48 |
| 917.5 | 0.47 |
| 918.5 | 0.47 |
| 919.5 | 0.47 |
| 920.5 | 0.46 |
| 921.5 | 0.45 |
| 922.5 | 0.43 |
| 923.5 | 0.42 |
| 924.5 | 0.41 |
| 925.5 | 0.40 |
| 926.5 | 0.38 |
| 927.5 | 0.37 |

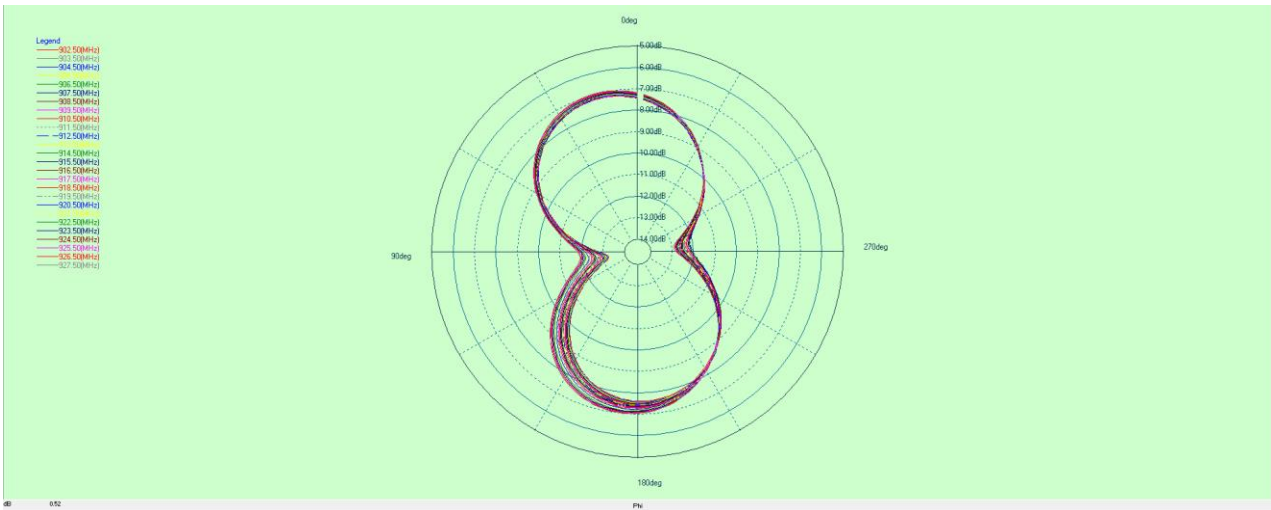
4.2 2D Radiation Pattern



Phi=0°

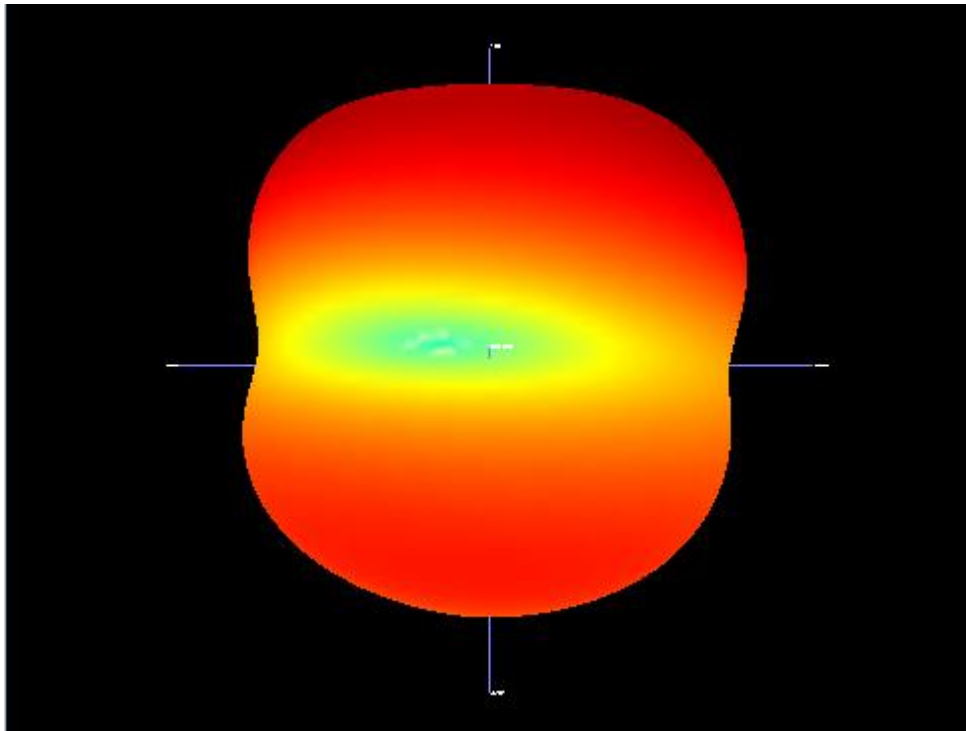


Phi=90°

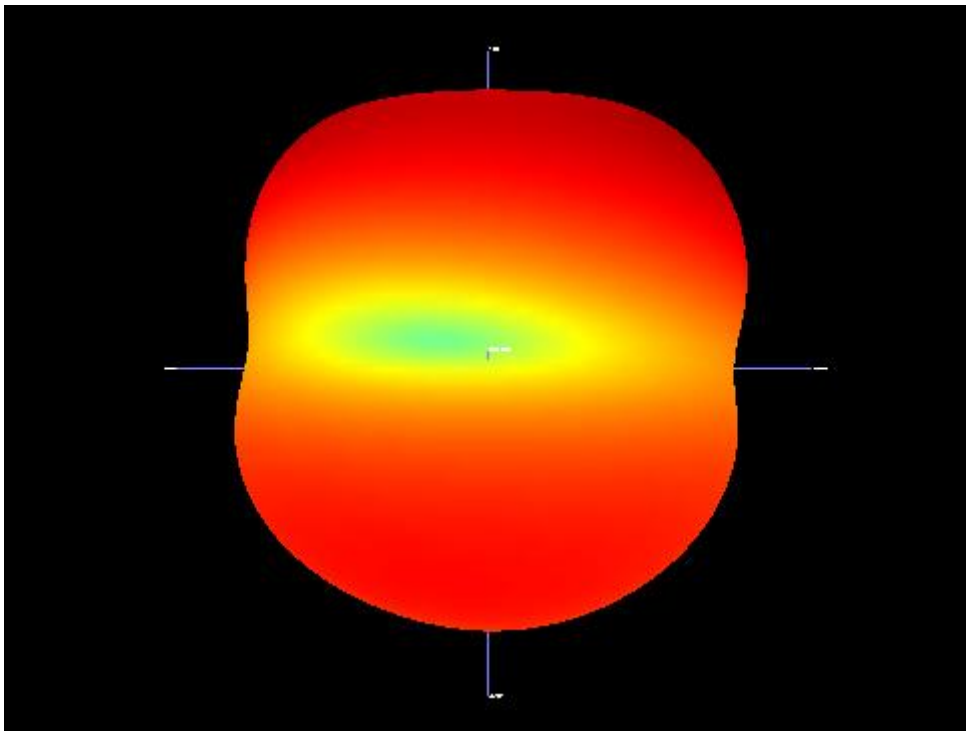


Theta=90°

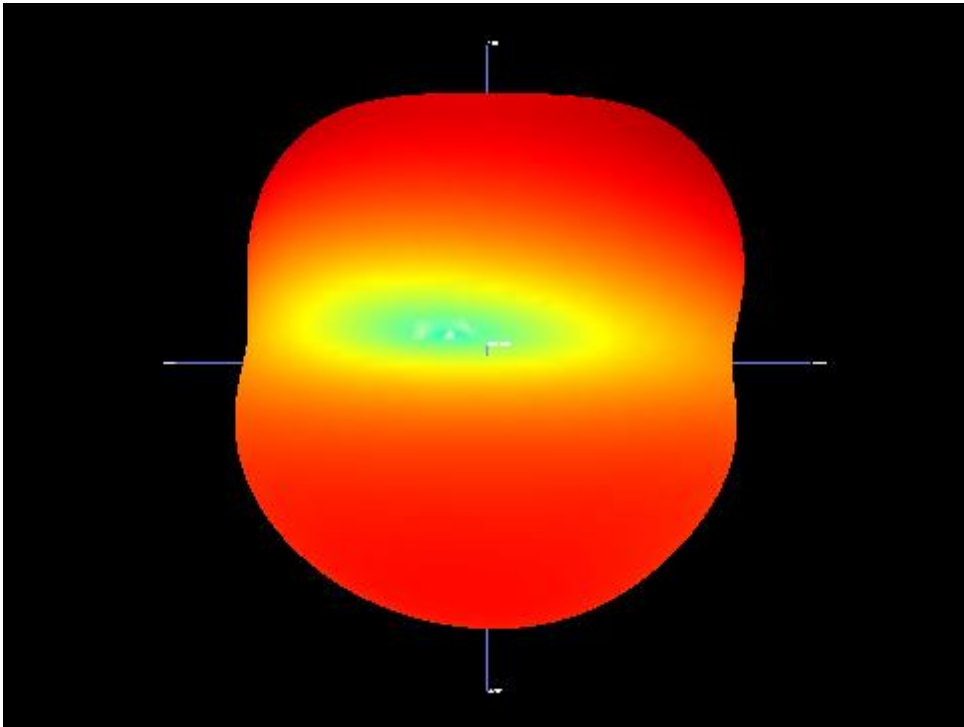
4.3 3D Radiation Pattern



902.5MHz



915.5MHz



927.5MHz

5. VSWR Chart

Antennas have been tested under wireless simulated environment by Network Analyzer

