

Central Frequency 480 MHz Spring Antenna

FEATURES & BENEFITS

- Light Weight
- Easy Installation
- Good compatibility, Sensitive signal reception, Excellent stability
- Reduced Cost and Time-to-Market



APPLICATIONS

- Automated Meter Reading
- Wireless Sensor Networks
- Home and Building Automation
- Wireless Alarm and Security Systems
- Industrial Monitoring and Control
- Wireless M-BUS
- Internet of Things (IoT) Devices
- Smart Agriculture

RODUCTS

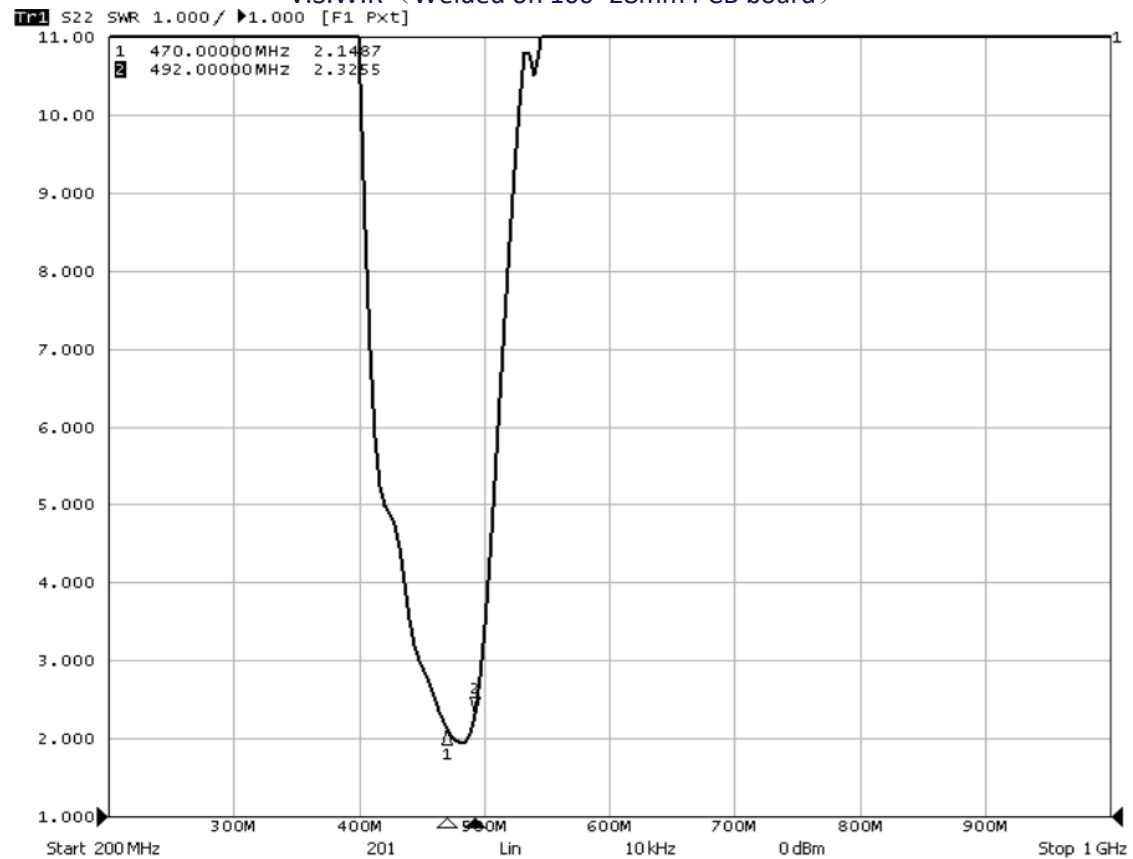
Model	Part No.	Weight	Dimensions (L x W)	Color
AILM004	M04-0102800R0A	1.3g	Φ 5.5*32	Gold

SPECIFICATIONS

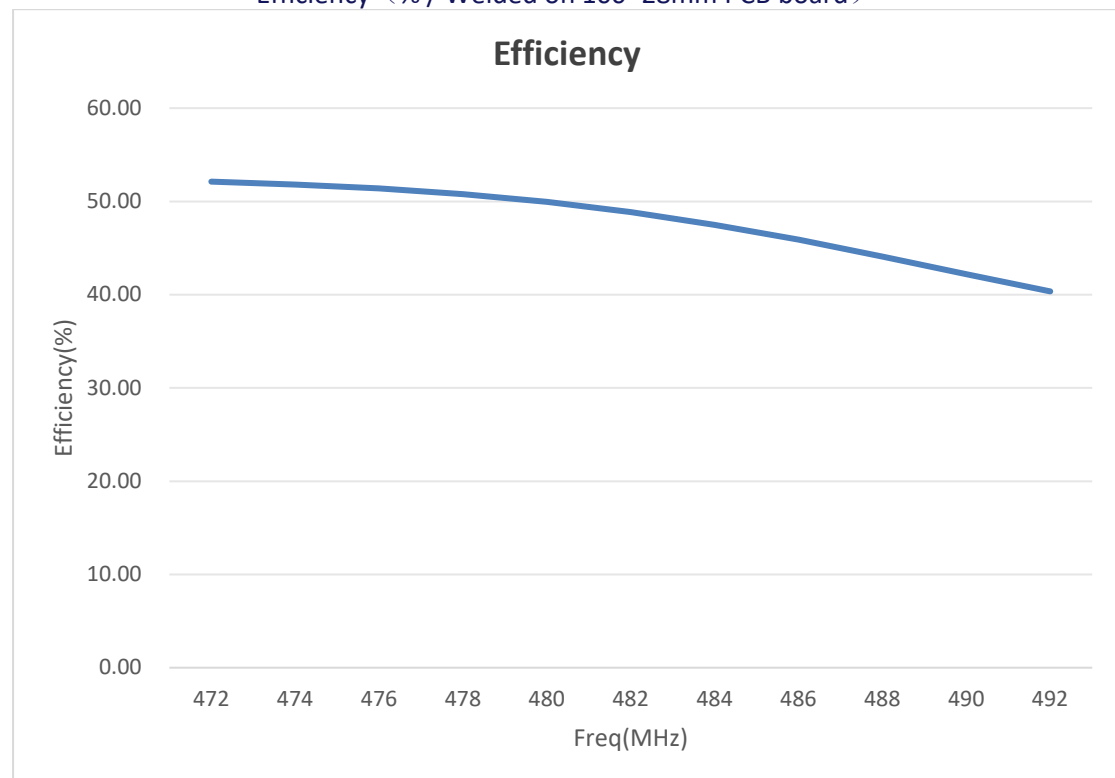
PARAMETER	SPECIFICATION
Frequency Bands, MHz	472-492
VSWR (Max)	3.0:1(100*28mm PCB board)
Peak Gain, dBi (Typ)	Up to 3.0(100*28mm PCB board)
Nominal Impedance	50 Ω
Max Power (ambient temp of 25°C)	10 Watts
Azimuth Beam Width (deg)	Omnidirectional
Polarization	Linear, Omnidirectional
Color	Gold
Storage Temperature Range (°C)	-40° C to +85° C
Operational Temperature Range (°C)	-40° C to +85° C
Material Substance Compliance	REACH/RoHS Compliant

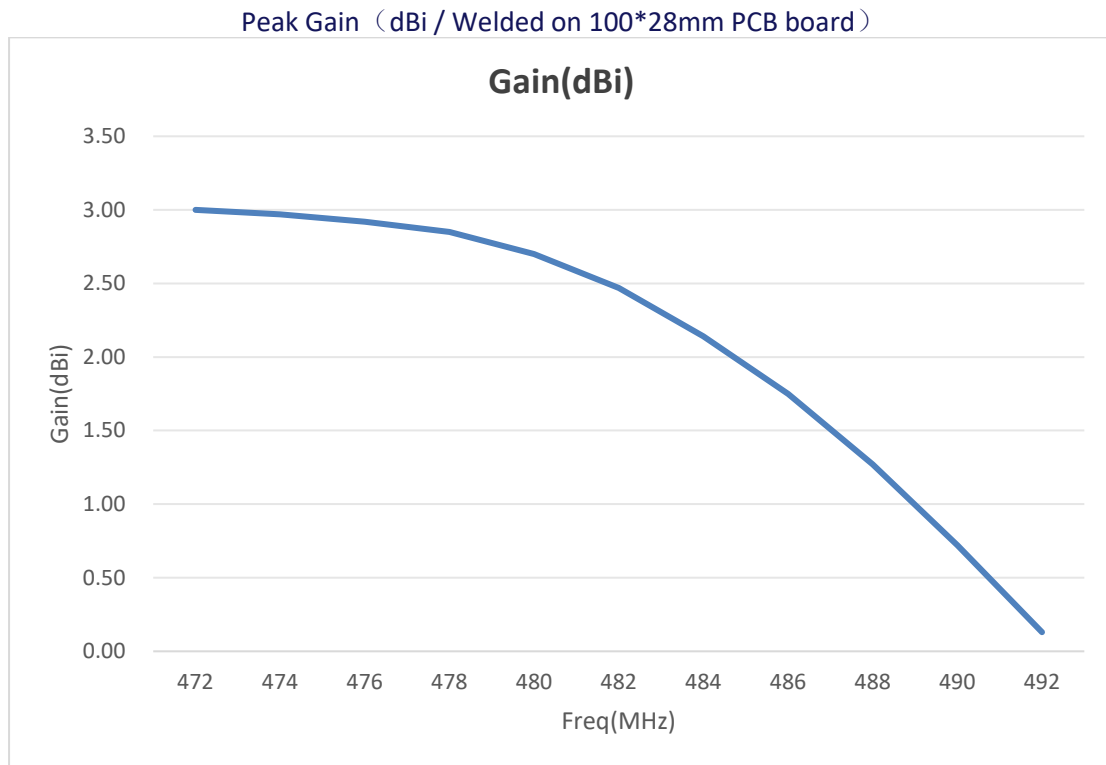
ELECTRICAL DATA

V.S.W.R (Welded on 100*28mm PCB board)



Efficiency (% / Welded on 100*28mm PCB board)





ANTENNA APPLICATION DESIGN GUIDE

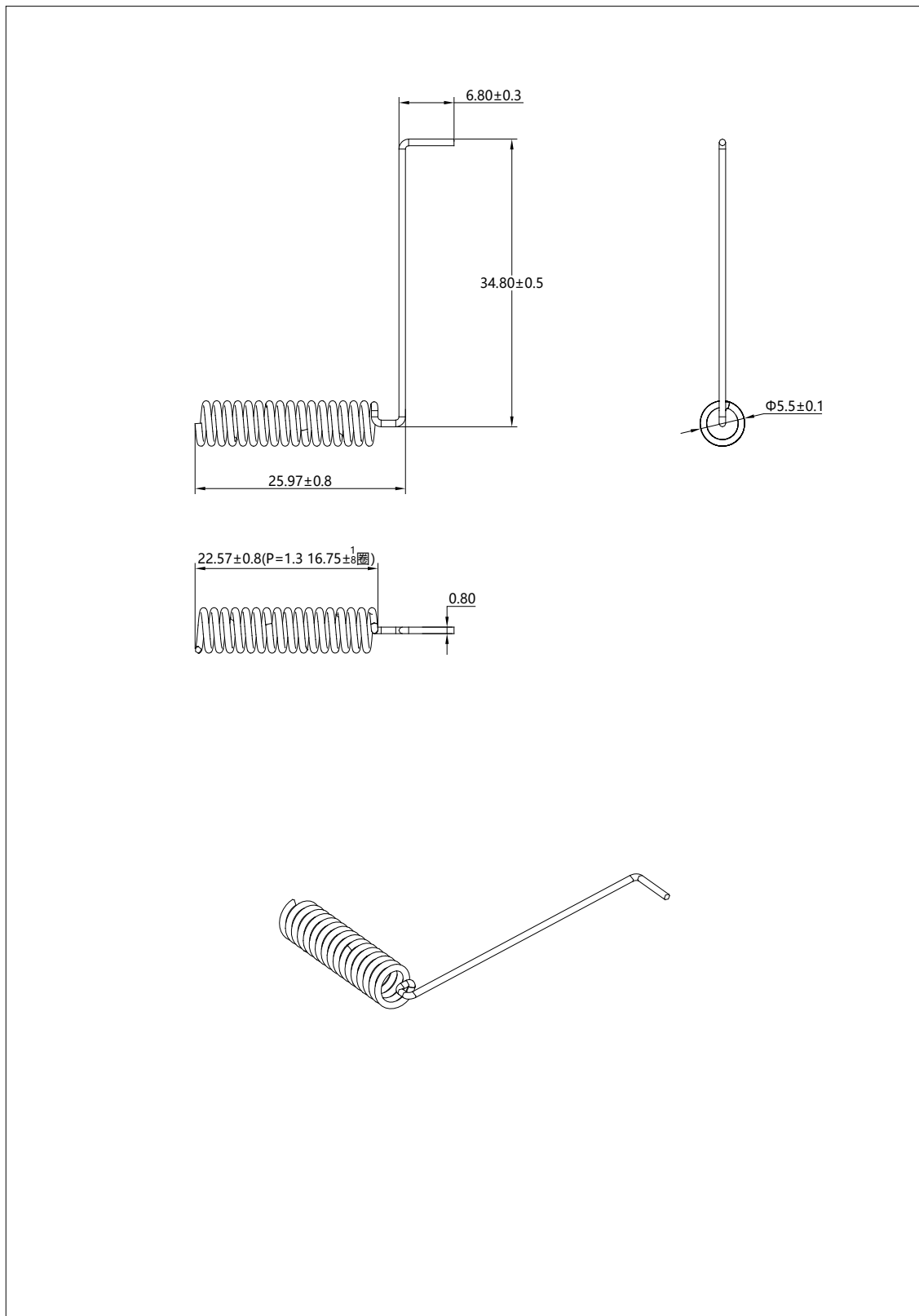
Note: In the antenna design process, the placement, angle, ground clearance, and height above the PCB substrate of the spring antenna should be determined by considering the product's structural design, the location of RF module signal input/output interfaces, and internal interference sources.

A π -type matching network should be reserved to facilitate antenna tuning. Ensure the complete product enclosure and internal PCBA functional boards are provided when debugging the antenna. External interference sources and parasitic capacitance should be accounted for in the matching process to achieve optimal antenna performance and efficiency.

The left diagram shows a side view, while the right diagram shows a top view. A recommended trace width of 0.5mm should be used for the PCB traces of the matching network. The ground clearance on both network sides should be 0.35mm to maintain good impedance characteristics.

If you have any questions, please send PCB documents to this e-mail: support@aboosty.com

HOUSING CONFIGURATIONS



Aboosty™ is owned by Shenzhen MyAntenna RF Technology Co., Ltd. (often abbreviated as MyAntenna).

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