

433MHz Spring Antenna

FEATURES & BENEFITS



- Designed specifically for the 433MHz band to achieve wireless signal transmission and reception
- Miniaturization, easy to integrate into space-constrained devices.
- Robust and durable, with good vibration resistance and aging resistance, suitable for industrial environments
- Secure installation, soldering method avoids poor contact and enhances reliability

APPLICATIONS

Various IoT applications, including,

- Industrial IoT and Data Acquisition
- Smart Home and Security
- Other Portable/Embedded Devices



ORDER INFORMATION

Product Name	433MHz Spring Antenna
Part Number	AILM005
Dimensions	Ø5 x 24.6 mm
Weight	0.55 g
Color	Golden
Mounting	soldering connection

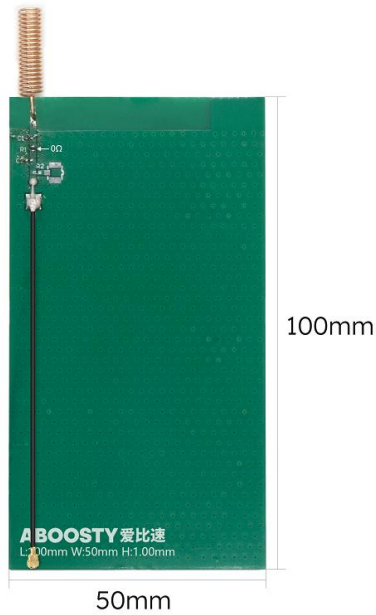
REFERENCE GUIDE

Technical Features (MHz)	433±10
Max VSWR	2.0:1
Efficiency	24.78%@433MHz
Gain	-2.58dBi@433MHz
Radiation Pattern	Omnidirectional
Polarization	Linear
Input Impedance	50 Ω
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	10 to 70%
Material Substance Compliance	RoHS Compliant
Dimensions (L x W x H)	Ø5 x 24.6 mm
All data were measured on a 100*50*1.0 mm PCB using a single 75 mm long RF 1.13 cable. Application data might vary.	

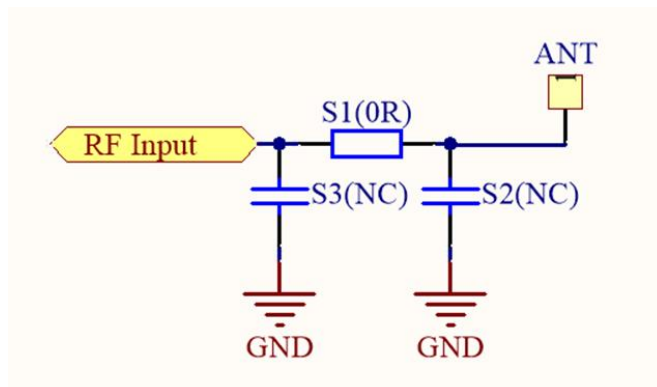
ELECTRICAL PERFORMANCE

- Note

All data shown in the "Electrical Performance" section were measured on a 100*50*1.0 mm PCB using a single 75 mm long RF 1.13 cable, as shown below.

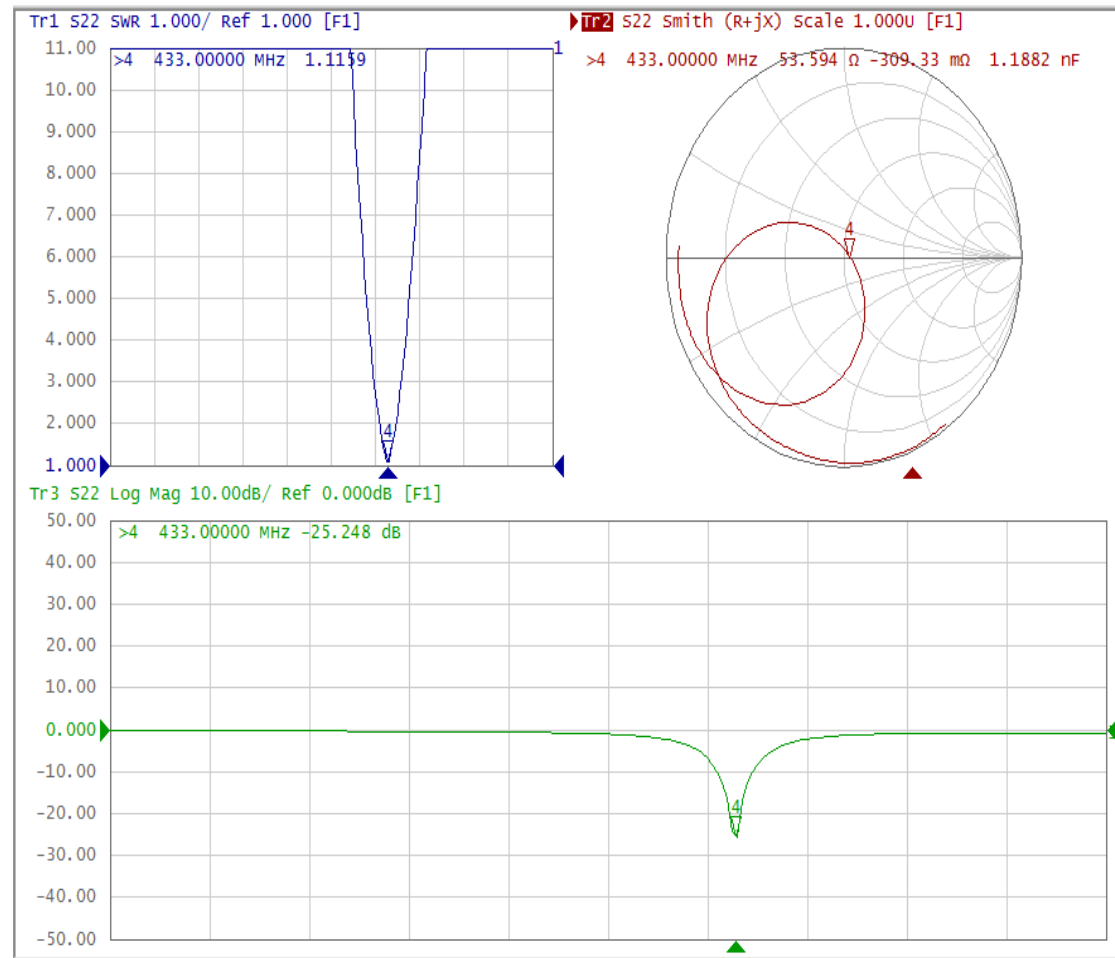


MATCHING NETWORK

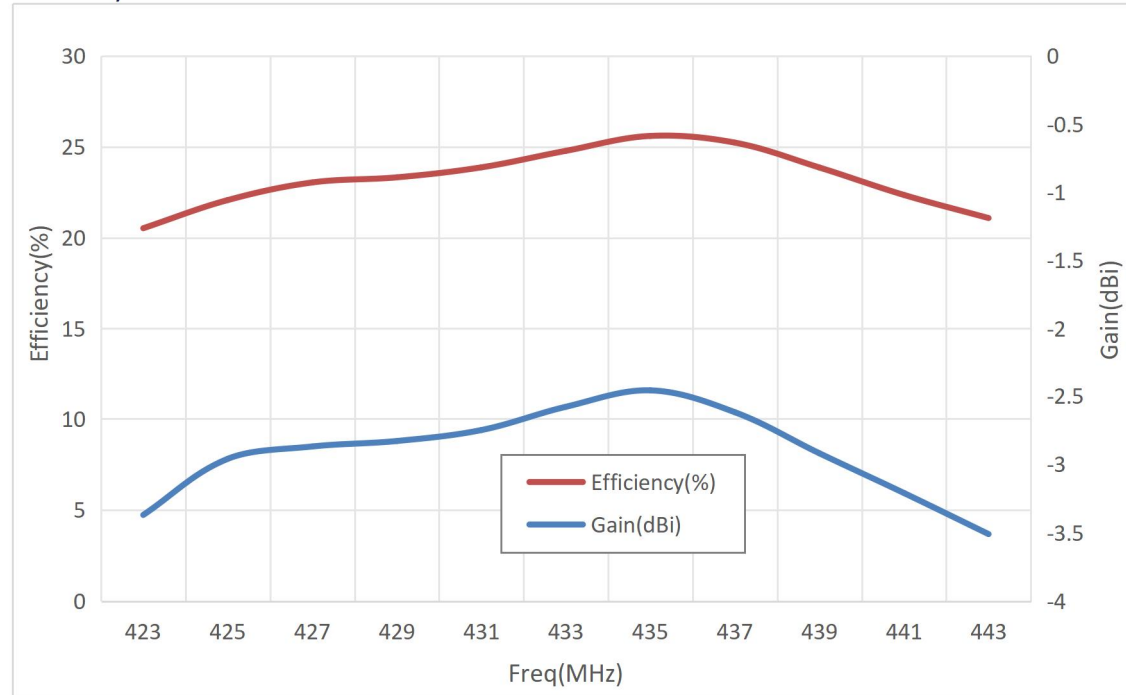


ELECTRICAL DATA

Return Loss

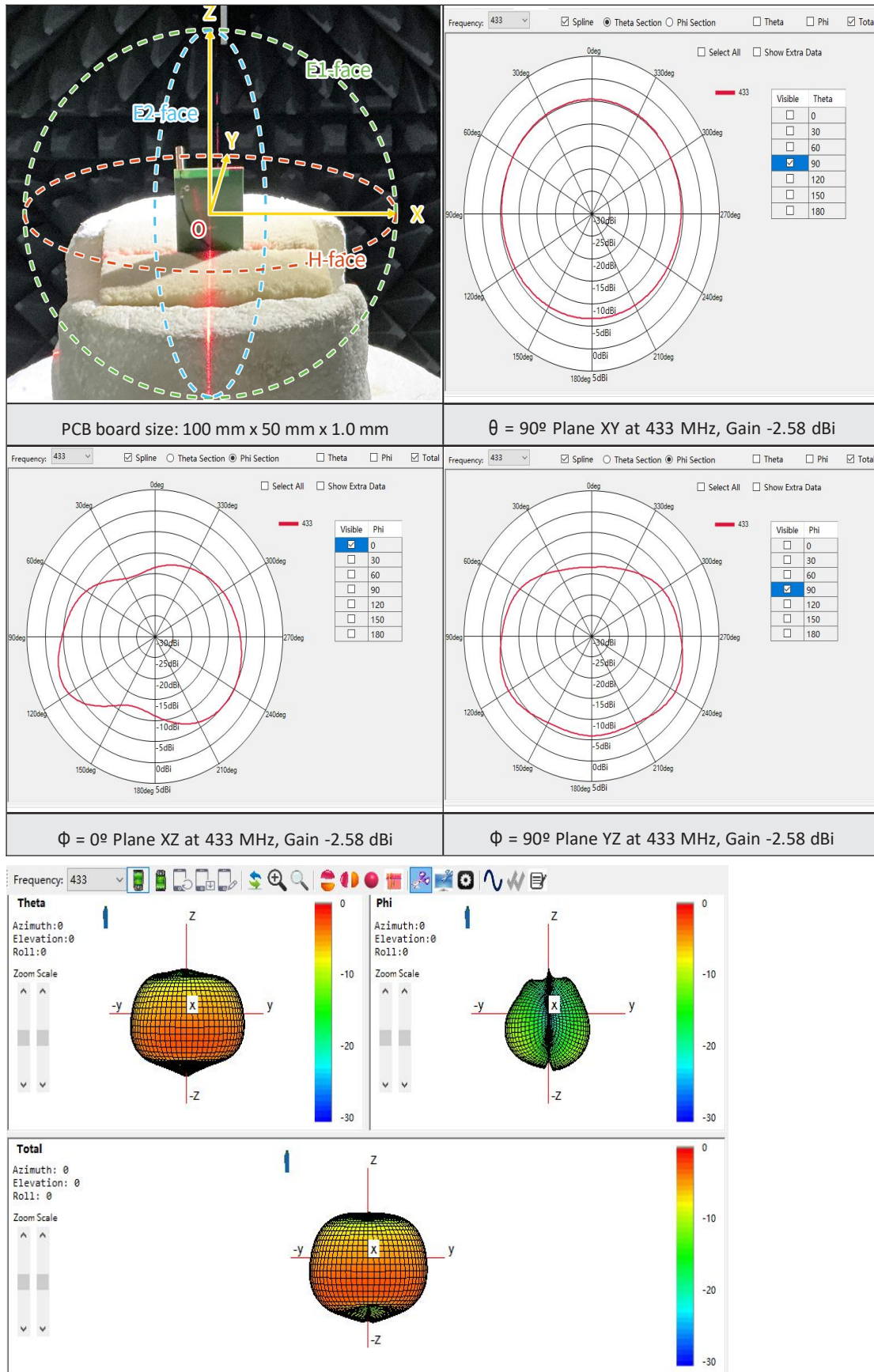


Efficiency And Gain

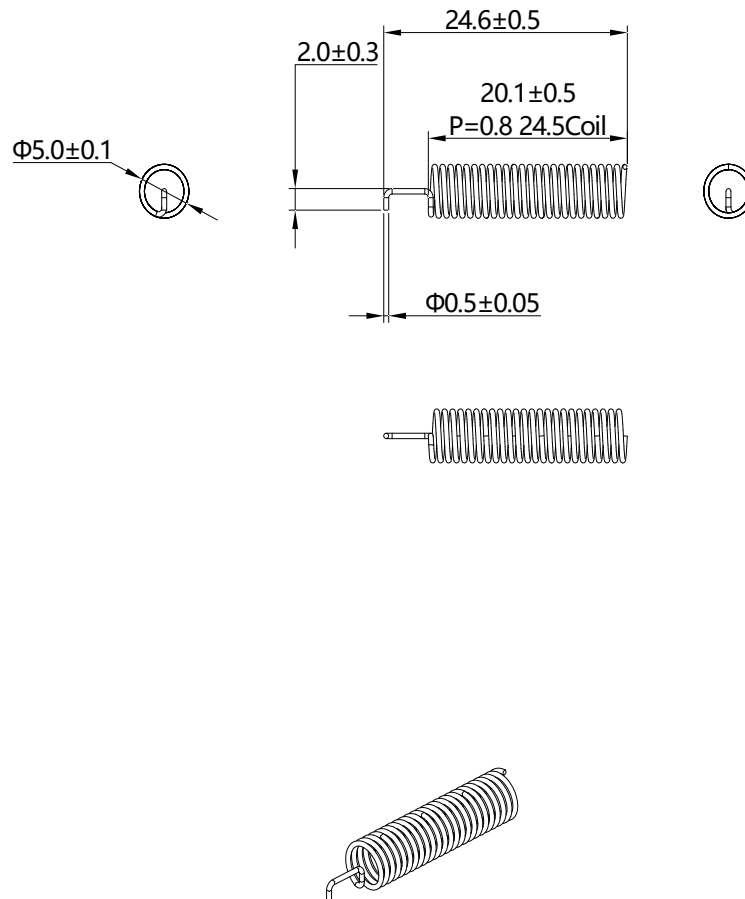


Freq(MHz)	Gain(dBi)	Efficiency(%)
423	-3.37	20.52
425	-2.96	22.07
427	-2.87	23.04
429	-2.83	23.32
431	-2.75	23.87
433	-2.58	24.78
435	-2.46	25.60
437	-2.62	25.23
439	-2.92	23.86
441	-3.21	22.35
443	-3.51	21.08

RADIATION PATTERNS



HOUSING CONFIGURATIONS



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

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