

# LoRa Small Stick Antenna

## FEATURES & BENEFITS



- Mini LoRa Antenna

## APPLICATIONS

- IoT Devices
- Smart Cities
- Smart Agriculture
- Consumer Tracking
- Smart Metering
- Smart Agriculture



## ORDER INFORMATION

Product Name	LoRa Small Stick Antenna
Part Number	AELP001
Dimensions	∅10 x 108 mm
Weight	6.5 g
Color	Black
Mounting	RP-SMA MALE Connector

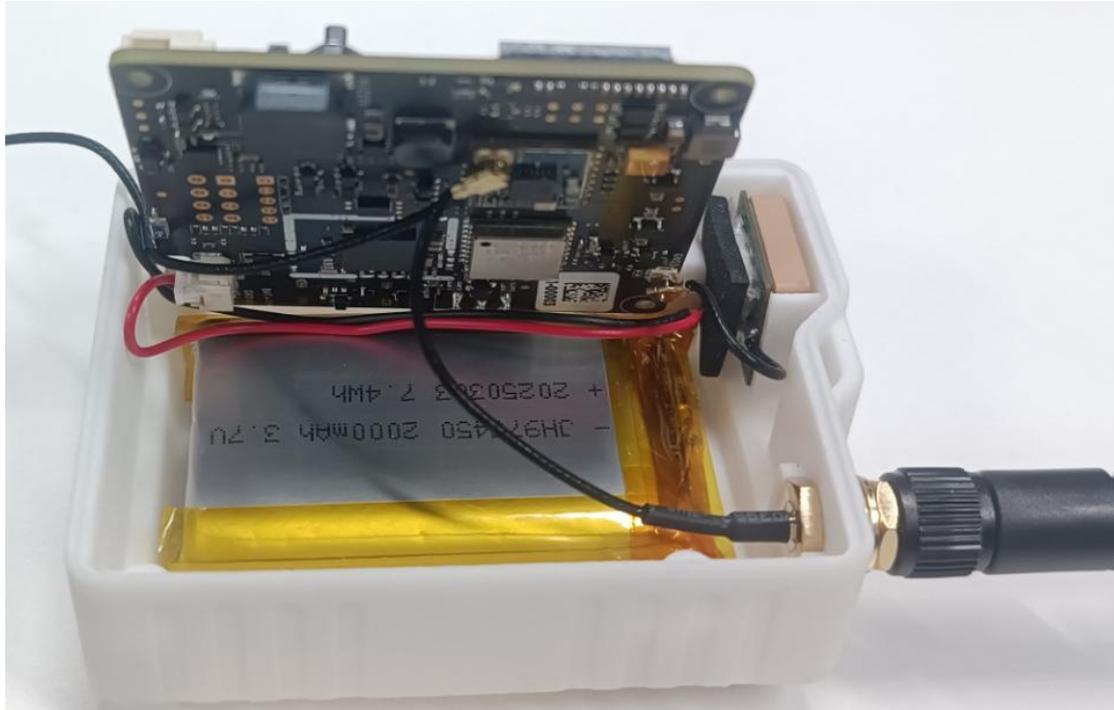
## REFERENCE GUIDE

Technical Features (MHz)	860-930
Max VSWR	2.0:1
Max Efficiency	57.84%
Peak Gain	0.59dBi
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)	∅10 x 108 mm
All data were measured on the module through a 60-mm-long RF1.13 cable, as shown in the figure. Application data may vary.	

## ELECTRICAL PERFORMANCE

- Note

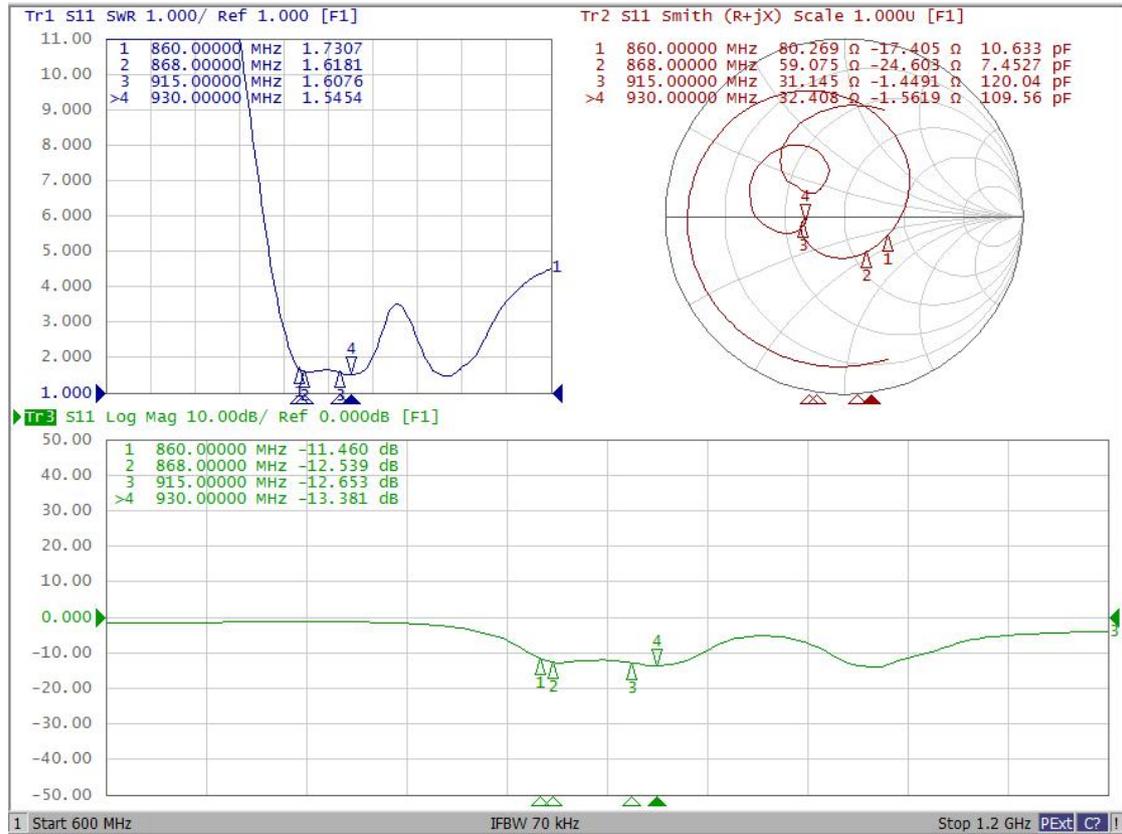
All data displayed in "ELECTRICAL PERFORMANCE" were measured on the module through a 60-mm-long RF1.13 cable.



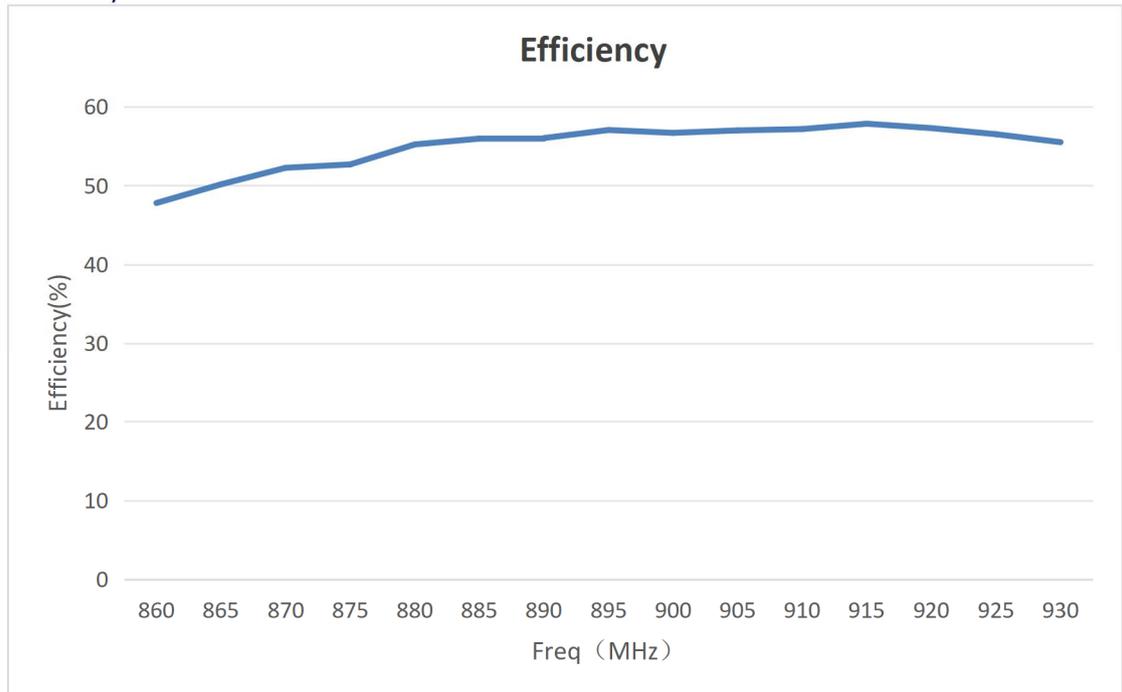
A sample of use cases: Antenna mounted on the module through

**ELECTRICAL DATA (Data tested on the module through a 60-mm-long RF1.13 cable)**

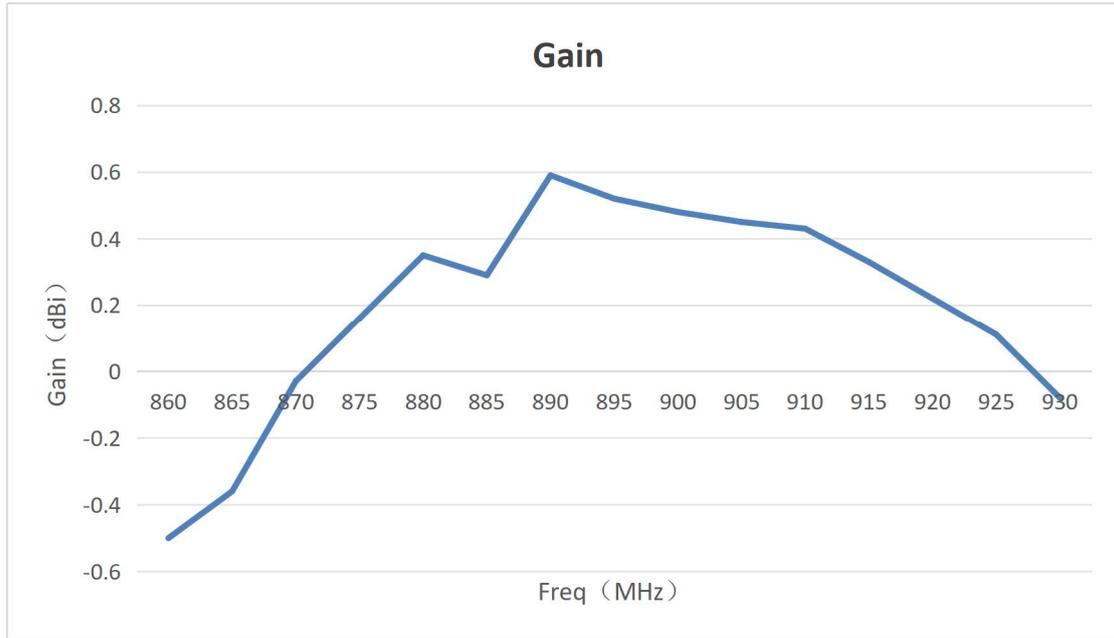
**Return Loss**



**Efficiency (%)**

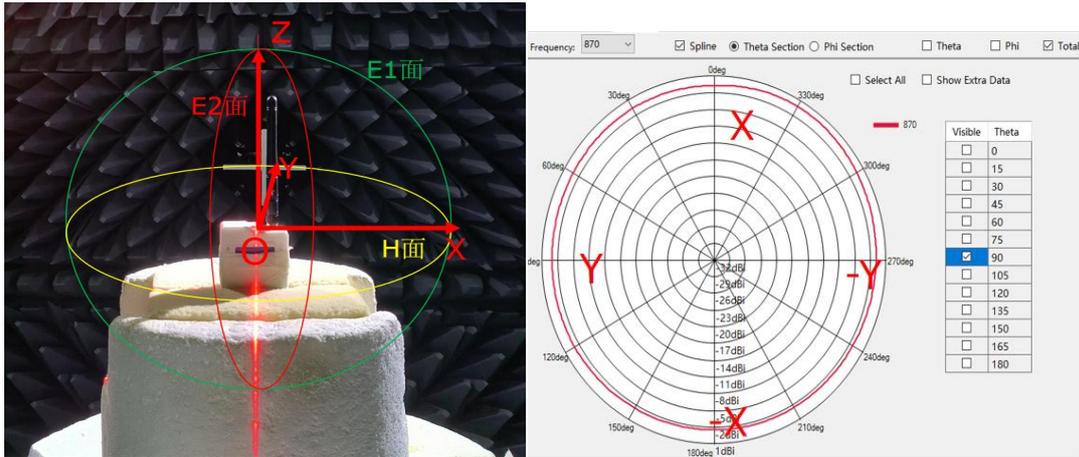


Peak Gain (dBi)



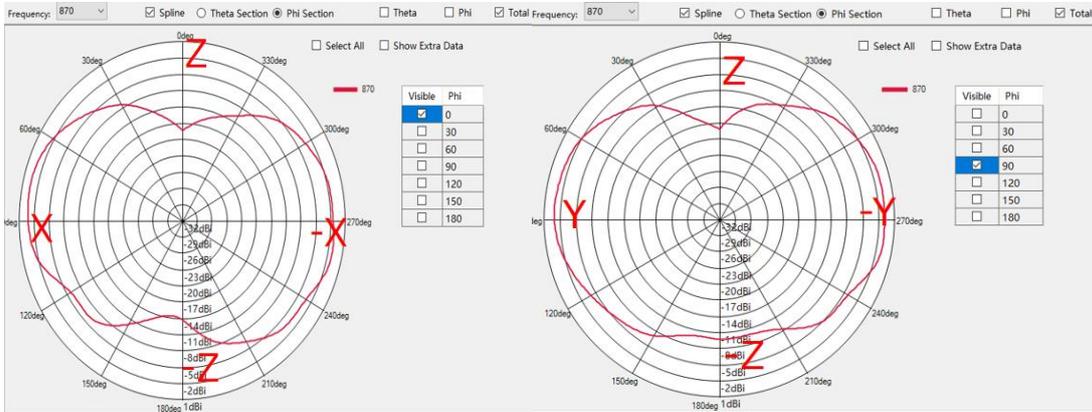
Freq (MHz)	Gain (dBi)	Efficiency(%)
860	-0.5	47.79
865	-0.36	50.16
870	-0.03	52.25
875	0.16	52.68
880	0.35	55.21
885	0.29	55.95
890	0.59	56.02
895	0.52	57.04
900	0.48	56.68
905	0.45	56.99
910	0.43	57.16
915	0.33	57.84
920	0.22	57.28
925	0.11	56.51
930	-0.08	55.5

RADIATION PATTERNS(Data tested on the module through a 60-mm-long RF1.13 cable)



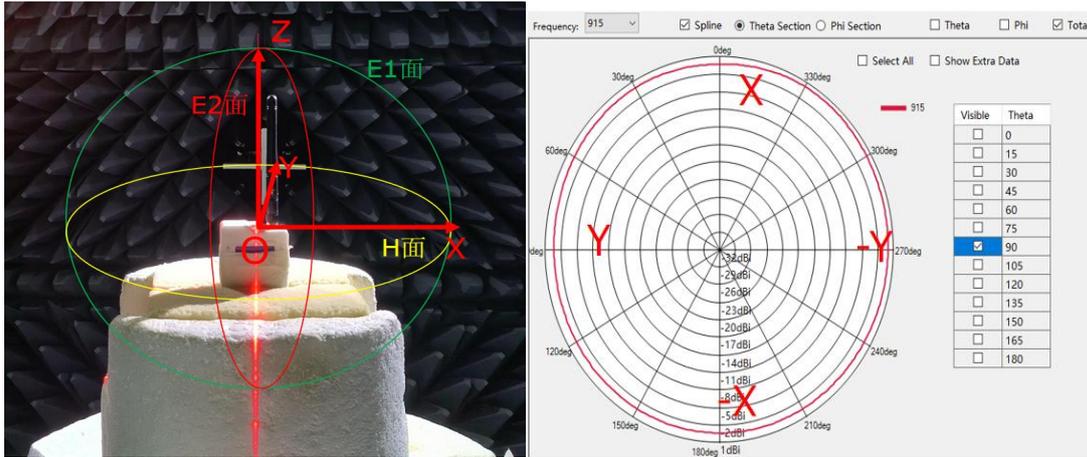
The Antenna in MyAntenna's Anechoic Chamber

H 面 at 870MHz



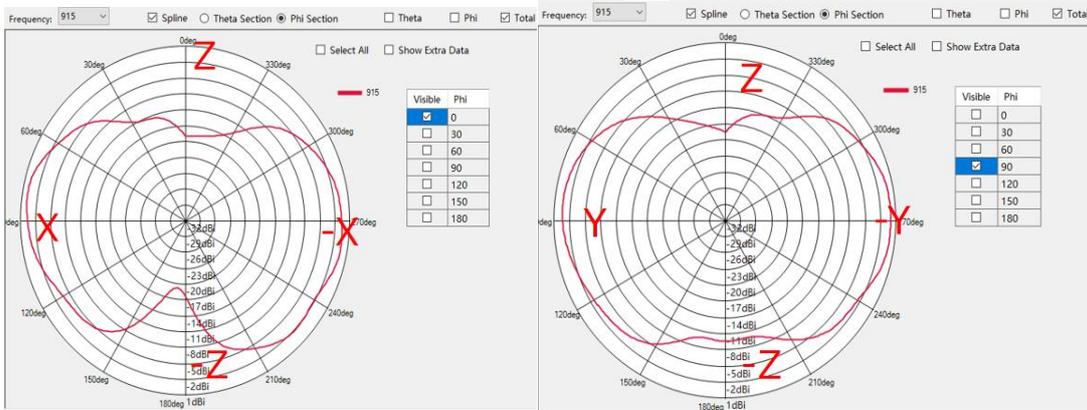
E1 面 at 870MHz

E2 面 at 870MHz



The Antenna in MyAntenna's Anechoic Chamber

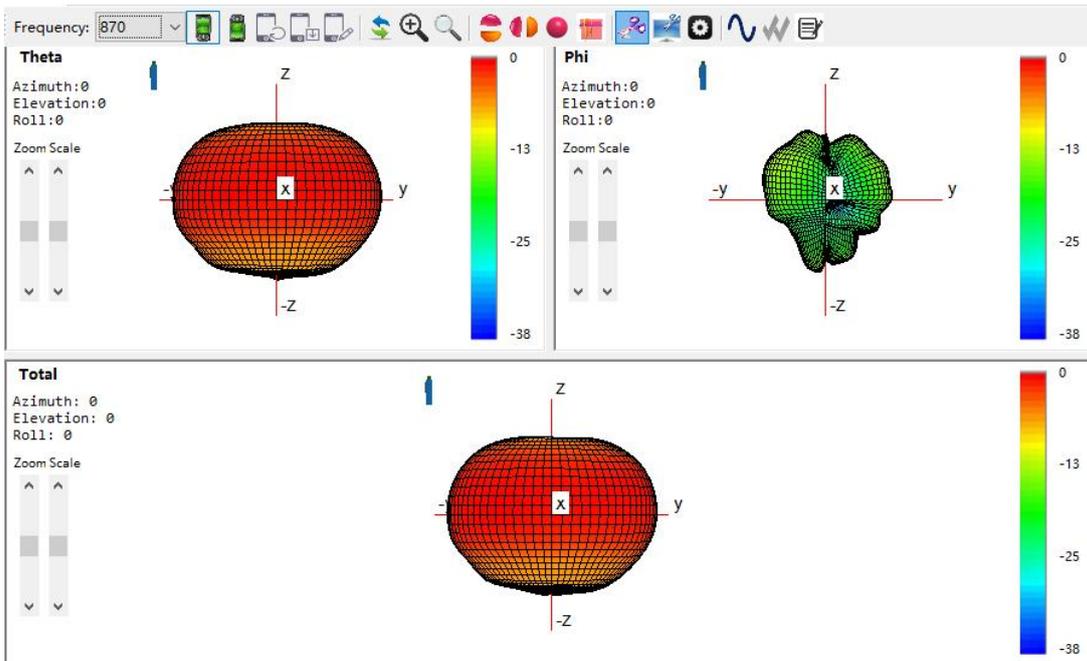
H面 at 915MHz



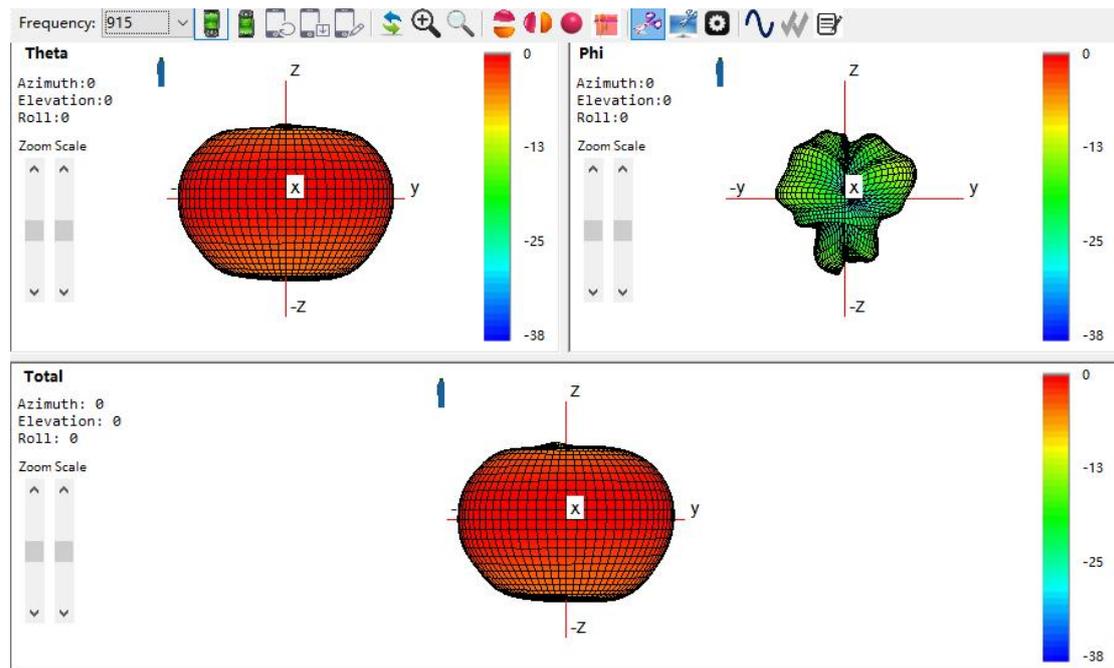
E1面 at 915MHz

E2面 at 915MHz

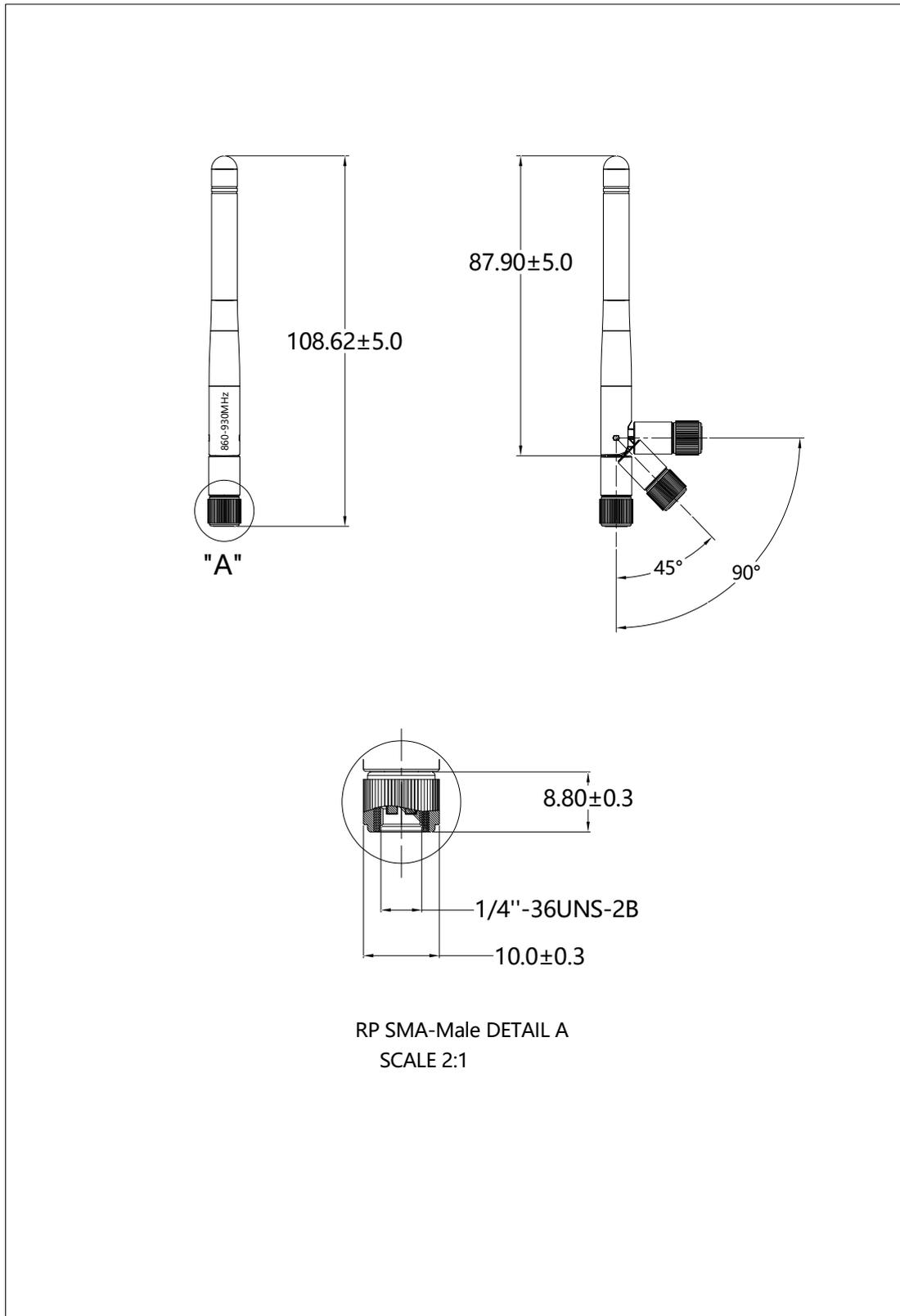
3D Radiation Pattern at 870MHz



3D Radiation Pattern at 915MHz



HOUSING CONFIGURATIONS



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