LoRa

ST0628-30-004-A

Amphenol

Datasheet

LoRa 433MHz

External

Stick Antenna

Features:

The LoRa antenna can achieve high performance and requires low power in operation, which suits variety of module.

Applications:

- Auto distance measuring reader
- Home building system
- Remote farming system

RoHS

Electrical Specifications

Antenna Characteristics

Antenna Type	Radiation Pattern	Polarization	Max. Input Power	Impedance
Stick Antenna	Omni	Linear	1W	50Ω

Frequency (MHz)	**430~436**
Return Loss (dB)	< -6
Peak Gain (dBi)	0.7
Average Gain (dB)	-4.8
Efficiency (%)	33

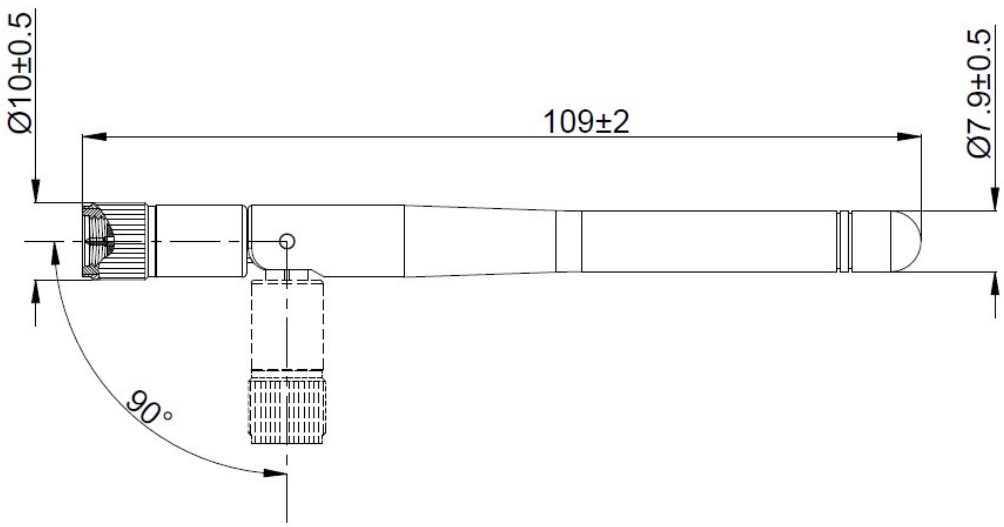
Mechanical Specifications

Mechanical	
Dimension (mm)	109.0
Connector Type	SMA (Plug)
Material	TPEE
Weight (g)	8.0

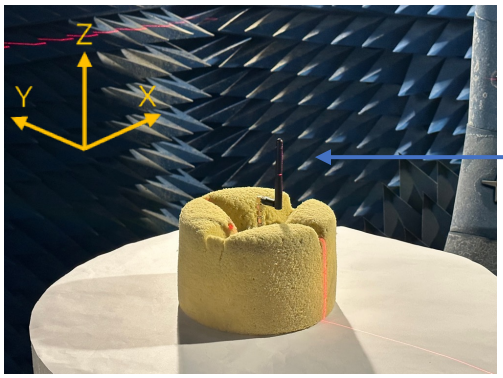
Environmental	
Temperature Range (˚C)	-10 to 60
Humidity	Non-condensing 65°C 95% RH
RoHS Compliant	

Mechanical Drawing

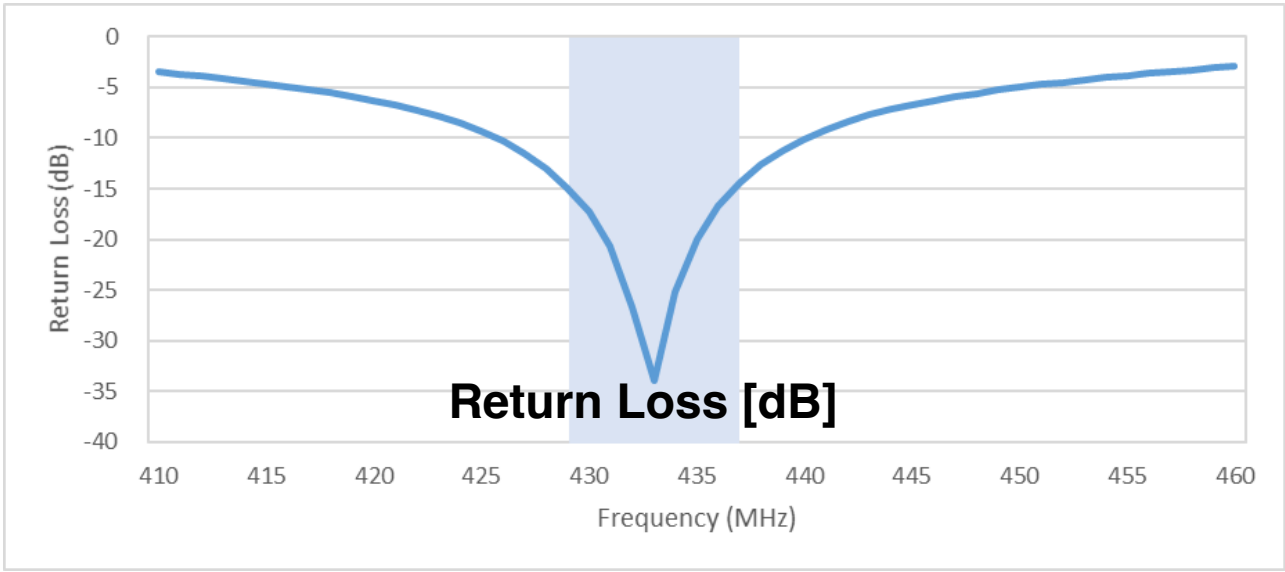
Unit : mm



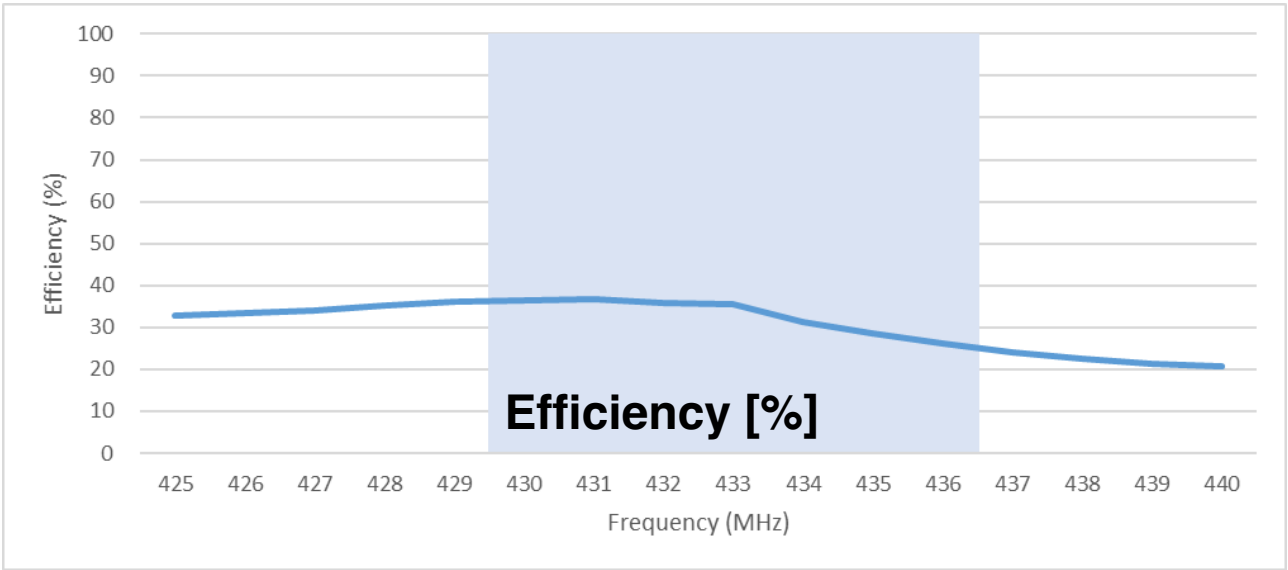
Charts In Free Space



Test setup, measurement performed in 3D anechoic chamber.

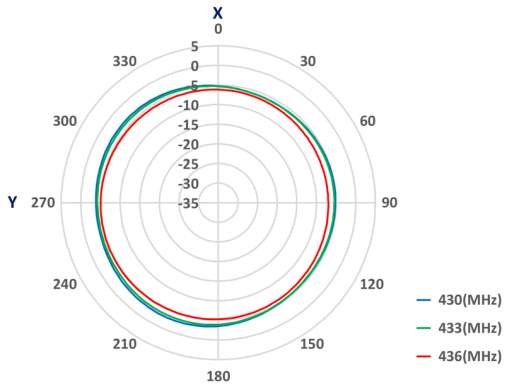


Blue background represents frequency response.

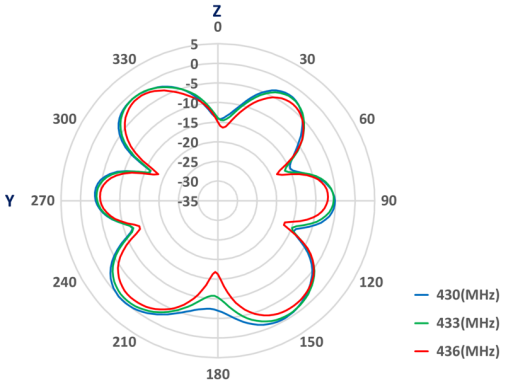


Radiation Pattern - Free Space

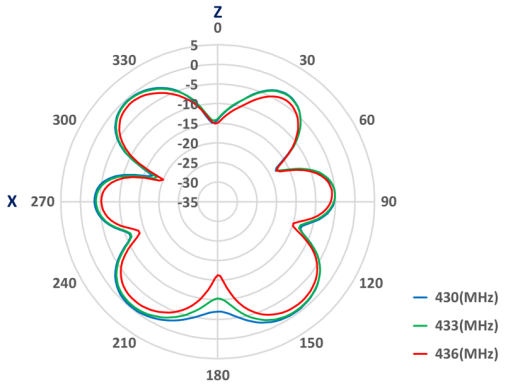
XY - Plane



YZ - Plane



XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-05-31	ST0628-30-004-A-RA00	ATC