

Datasheet

LoRa 433MHz

External

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



Stick Antenna



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

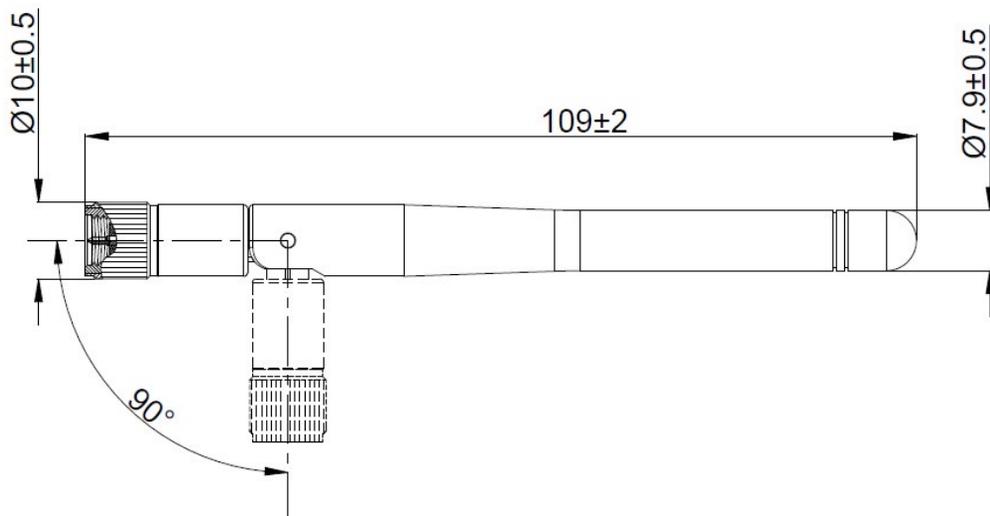
Environmental

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

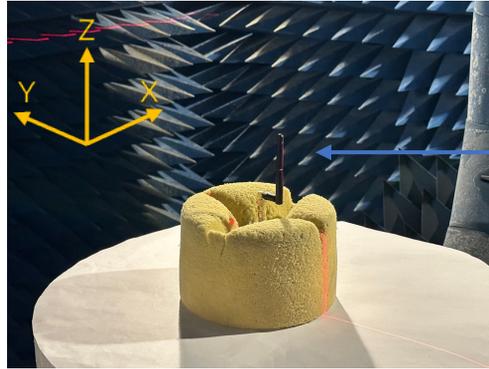
RoHS Compliant

Mechanical Drawing

Unit : mm

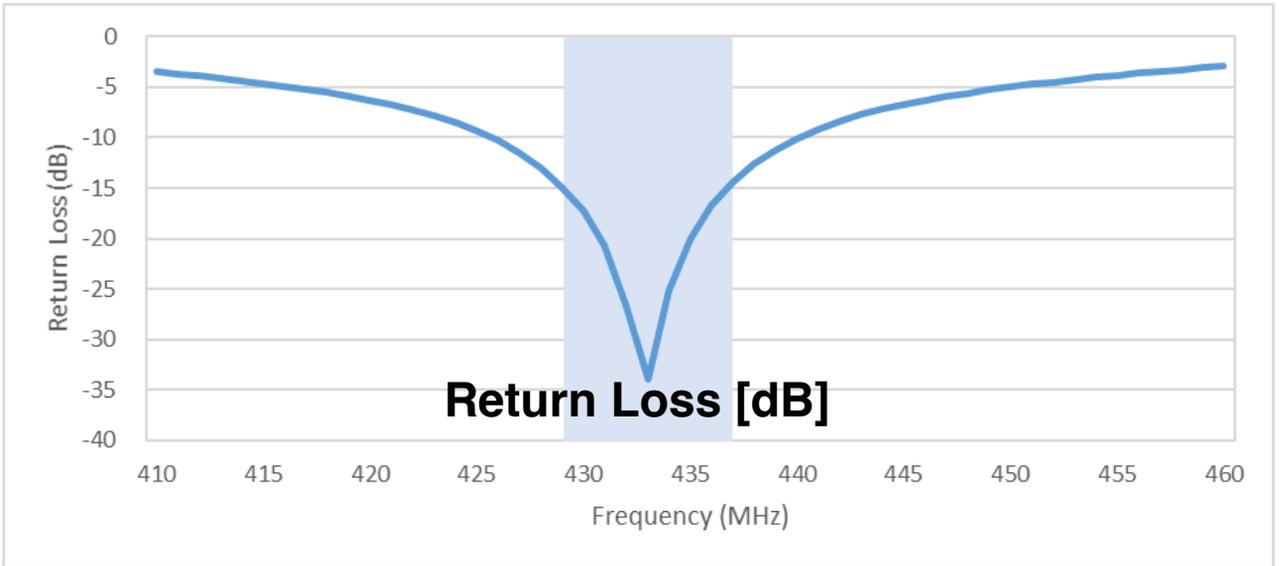


Charts In Free Space

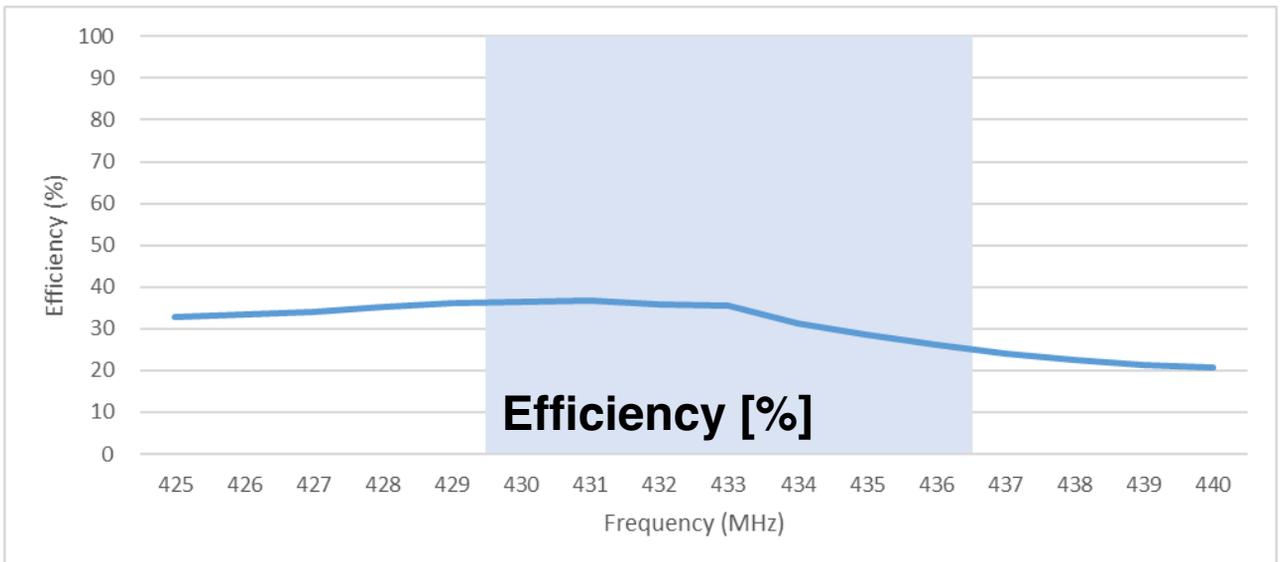


ST0628-30-004-A

Test setup, measurement performed in 3D anechoic chamber.

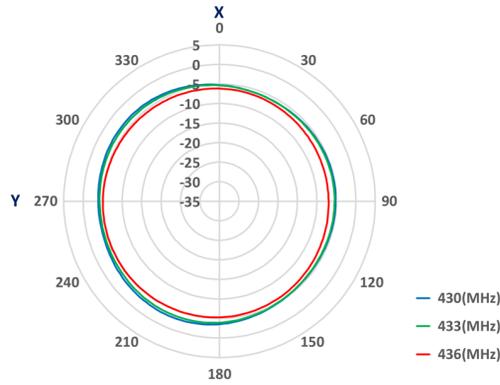


Blue background represents frequency response.

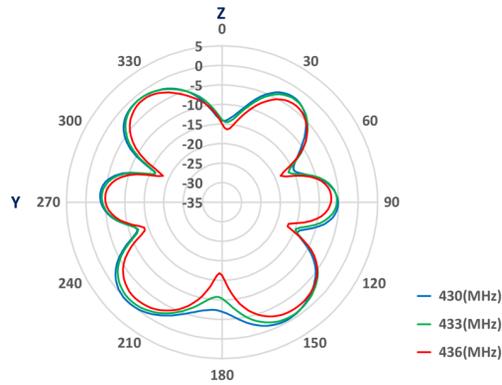


Radiation Pattern - Free Space

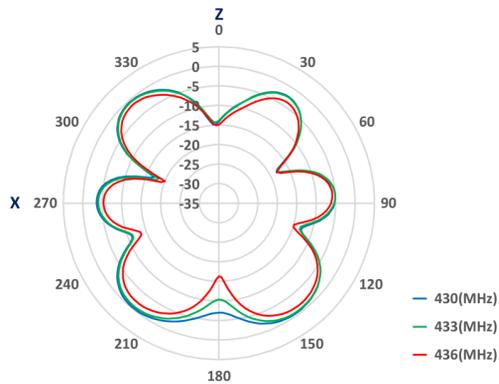
XY - Plane



YZ - Plane



XZ - Plane



Revisions

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

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