

## Datasheet

## LoRa 868MHz &amp; 915MHz

External / in-building

Features:

High performing LoRa antenna with SMA connector for indoor applications.

Applications:

- CPE - Router, Set-top boxes & Gateway
- IoT devices
- Sigfox
- LoRa
- LPWAN
- RFID
- Remote Monitoring
- Healthcare



Stick Antenna



## Electrical Specifications

## Antenna Characteristics

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

Frequency (MHz)	868~915
Return Loss (dB)	< -8
Peak Gain (dBi)	2.4
Average Gain (dB)	-0.8
Efficiency (%)	83

**Mechanical Specifications**

**Mechanical**

Dimension (mm)	160.0
Connector Type	SMA (Plug)
Material	TPEE
Weight (g)	66.9

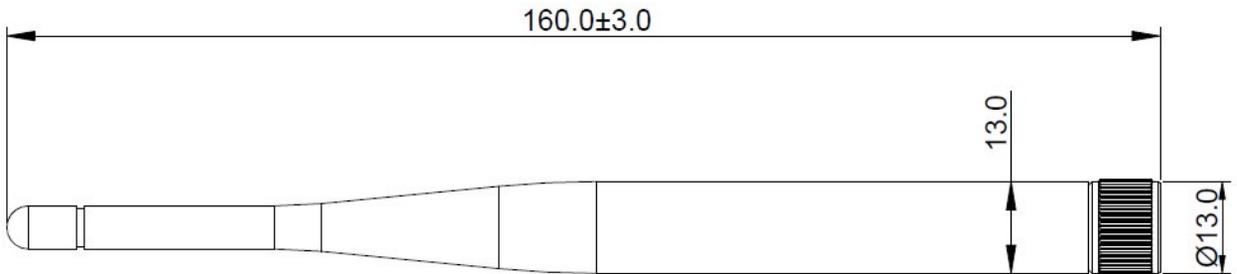
**Environmental**

Temperature Range (°C)	-40 to 70
Humidity	Non-condensing 65°C 95% RH

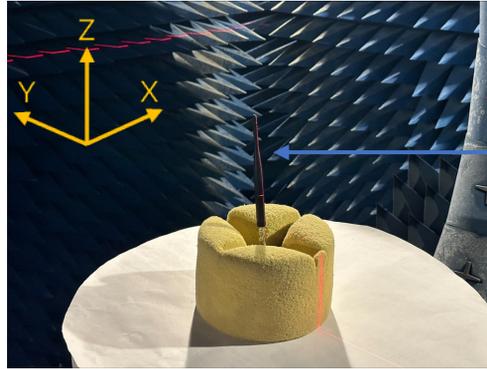
RoHS Compliant

**Mechanical Drawing**

Unit : mm

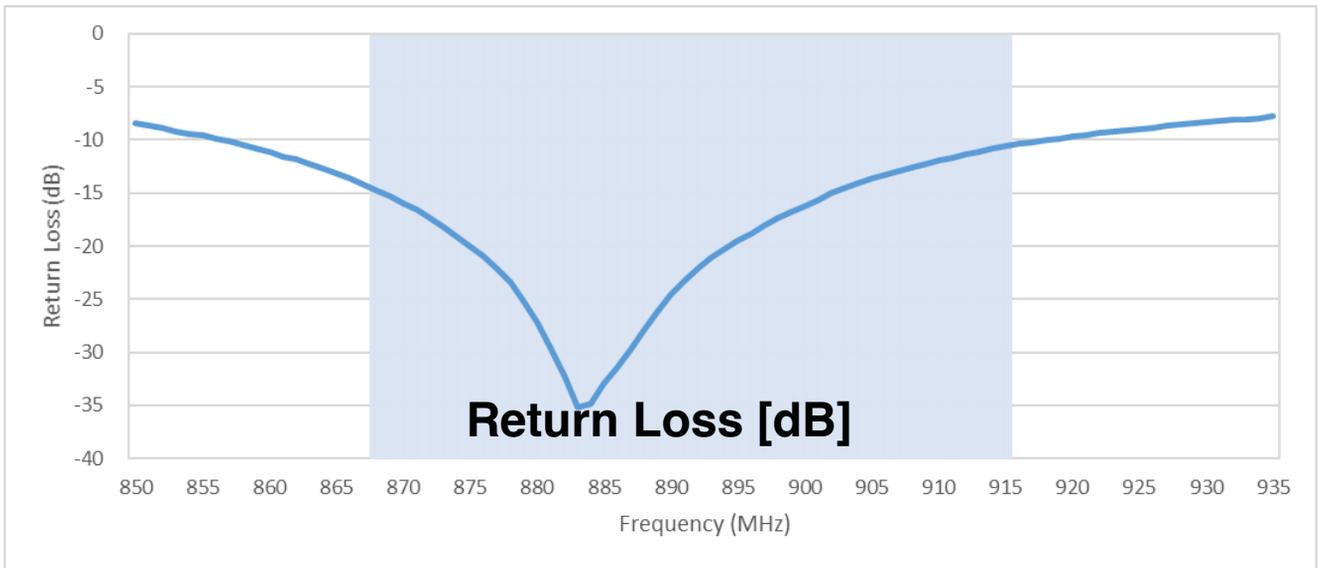


### Charts In Free Space

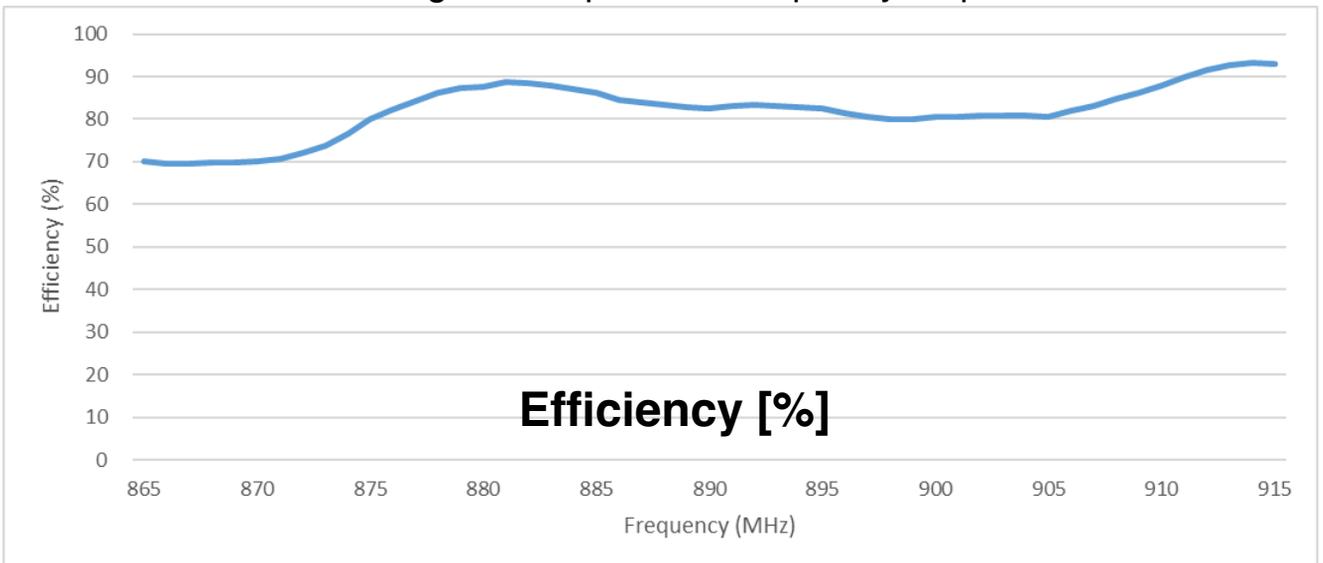


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Test setup, measurement performed in 3D anechoic chamber.

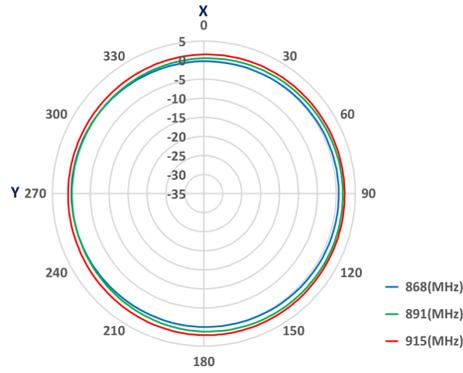


Blue background represents frequency response.

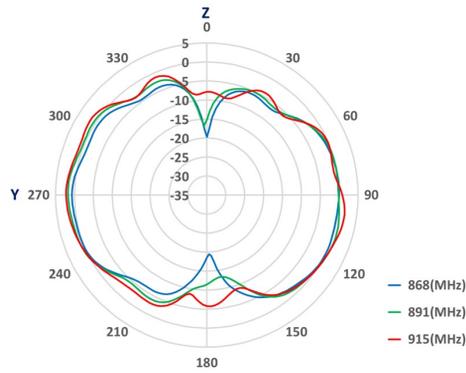


Radiation Pattern - Free Space

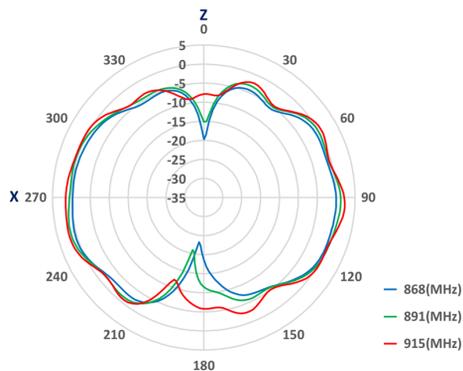
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-02-13	ST0628-30-001-A-RA00	ATC

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