

## Datasheet

## LoRa 868MHz &amp; 915MHz

External / in-building



Stick Antenna

Features:

High performing LoRa antenna with SMA connector for indoor applications. Also, it complies with EU & US specification.

Applications:

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



## Electrical Specifications

## Antenna Characteristics

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

Frequency (MHz)	860~876	902~928
Return Loss (dB)	< -10	< -10
Peak Gain (dBi)	3.0	2.4
Average Gain (dB)	-2.0	-1.5
Efficiency (%)	63	71

## Mechanical Specifications

### Mechanical

Dimension (mm)	222.0
Connector Type	RP-SMA (Plug)
Material	ABS
Weight (g)	34.5

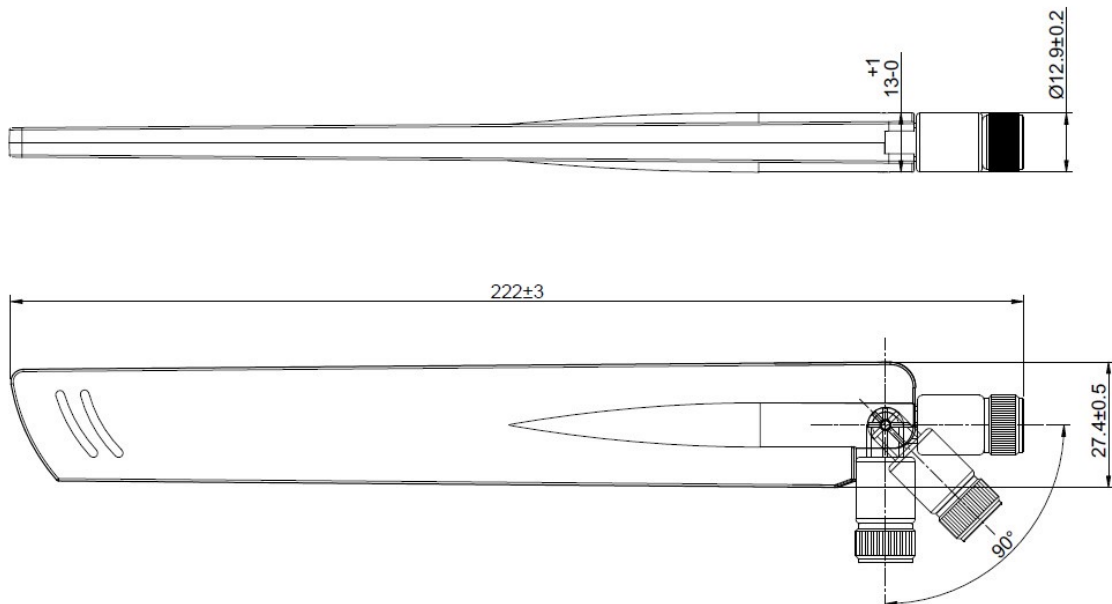
### Environmental

Temperature Range (°C)	-30 to 75
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

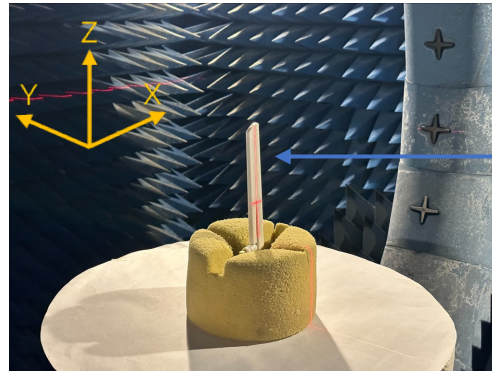
## Mechanical Drawing

Unit : mm



ST0628-40-501-B

## Charts In Free Space

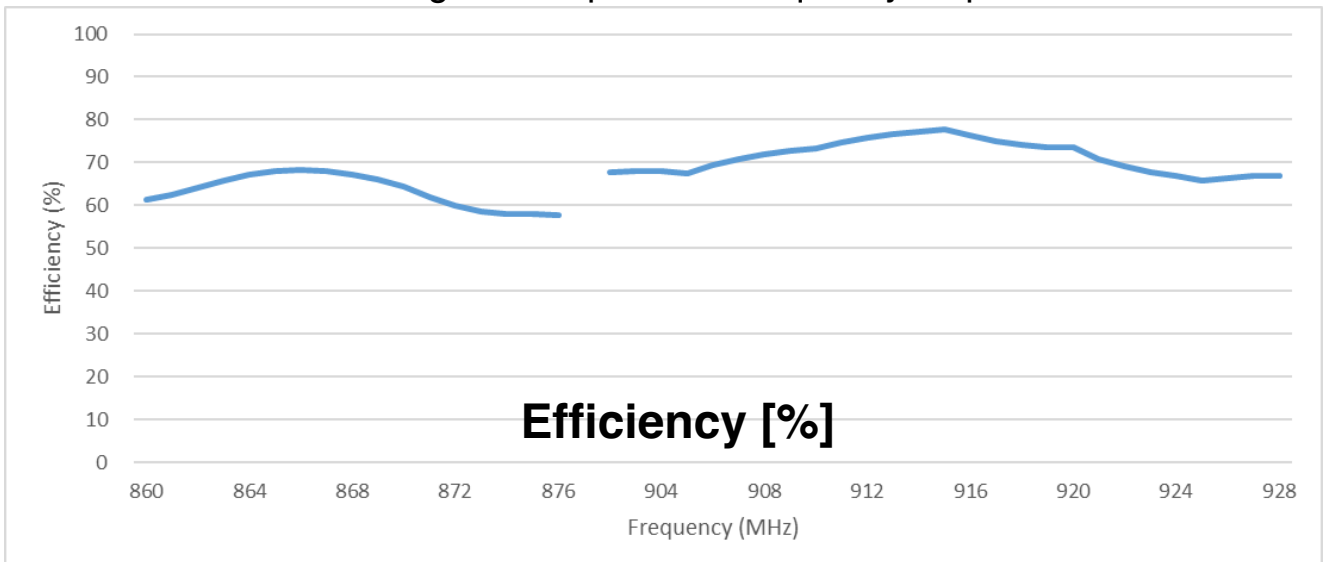


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Test setup, measurement performed in 3D anechoic chamber.

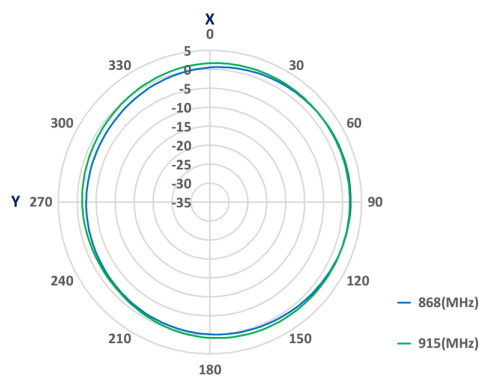


Blue background represents frequency response.

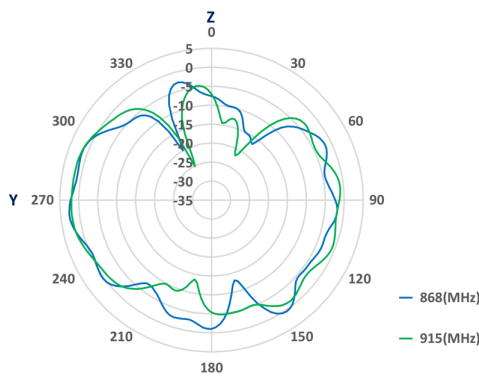


## Radiation Pattern - Free Space

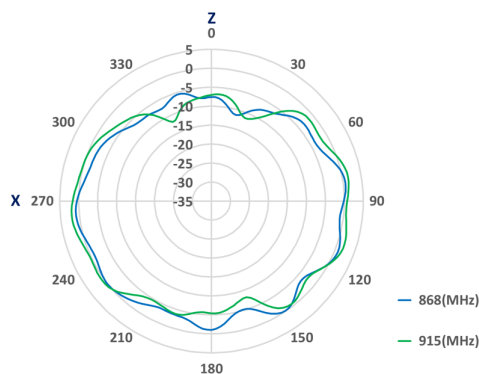
### XY - Plane



### YZ - Plane



### XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-02-20	ST0628-40-501-B-RA00	ATC

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