LoRa

ST0628-40-501-B

Amphenol

Datasheet

LoRa 868MHz & 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

RoHS

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

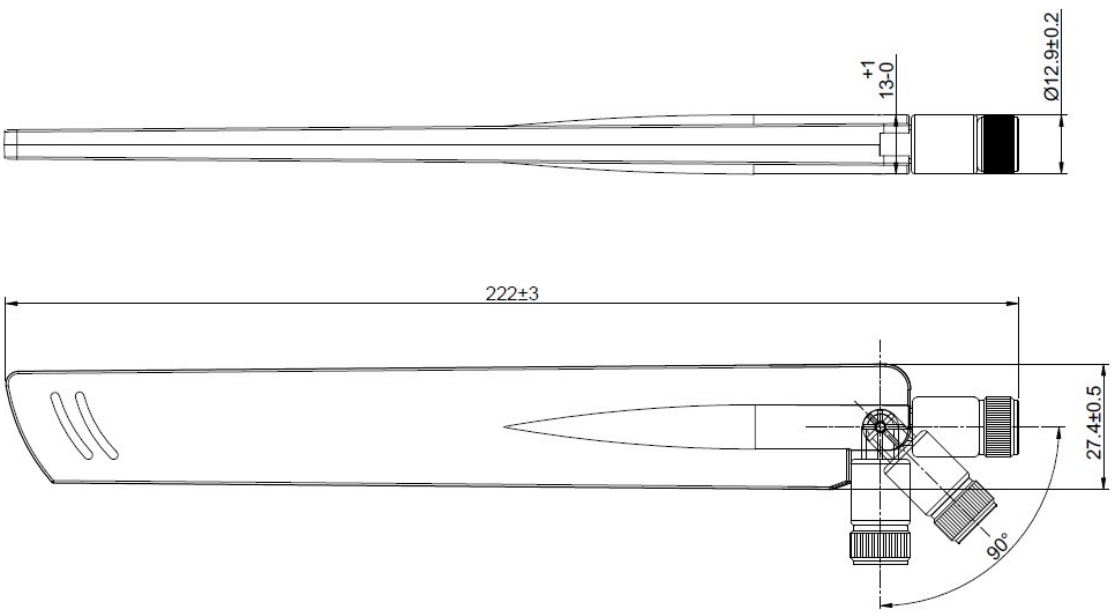
Mechanical Specifications

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

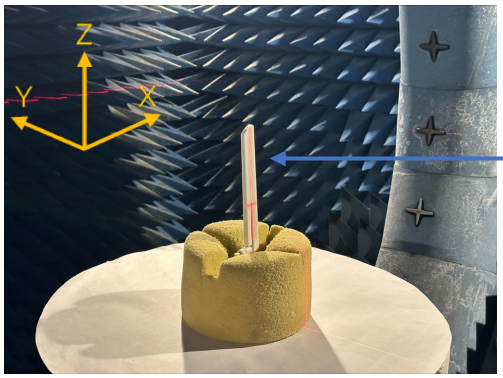
Environmental	
Temperature Range (˚C)	-30 to 75
Humidity	Non-condensing 65°C 95% RH
RoHS Compliant	

Mechanical Drawing

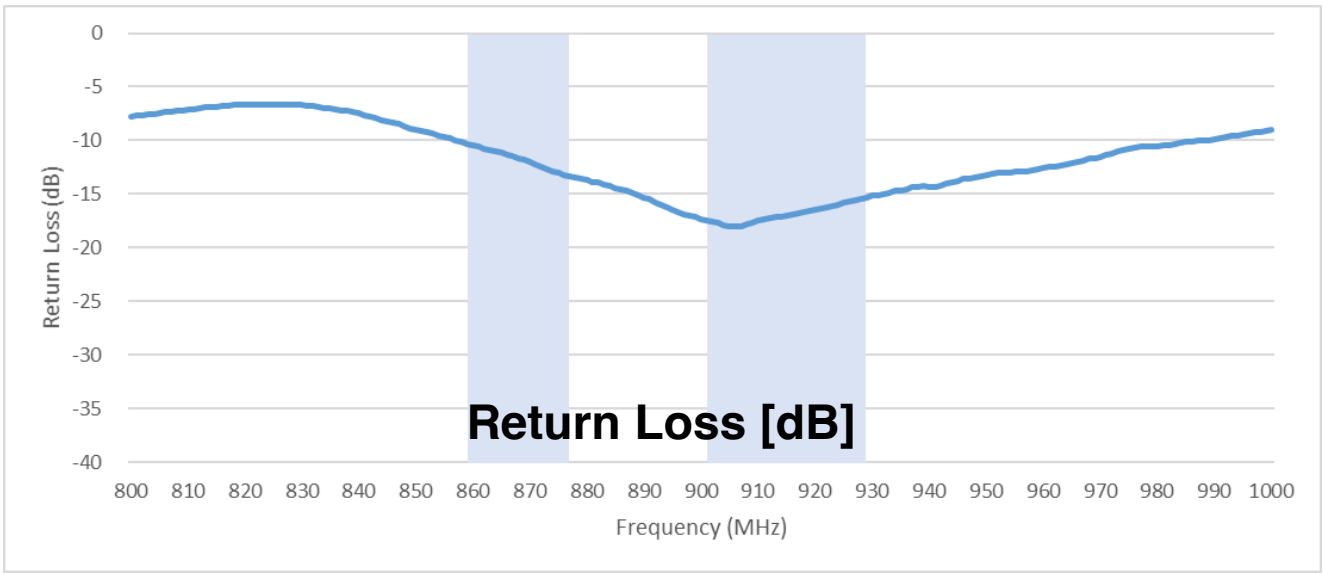
Unit : mm



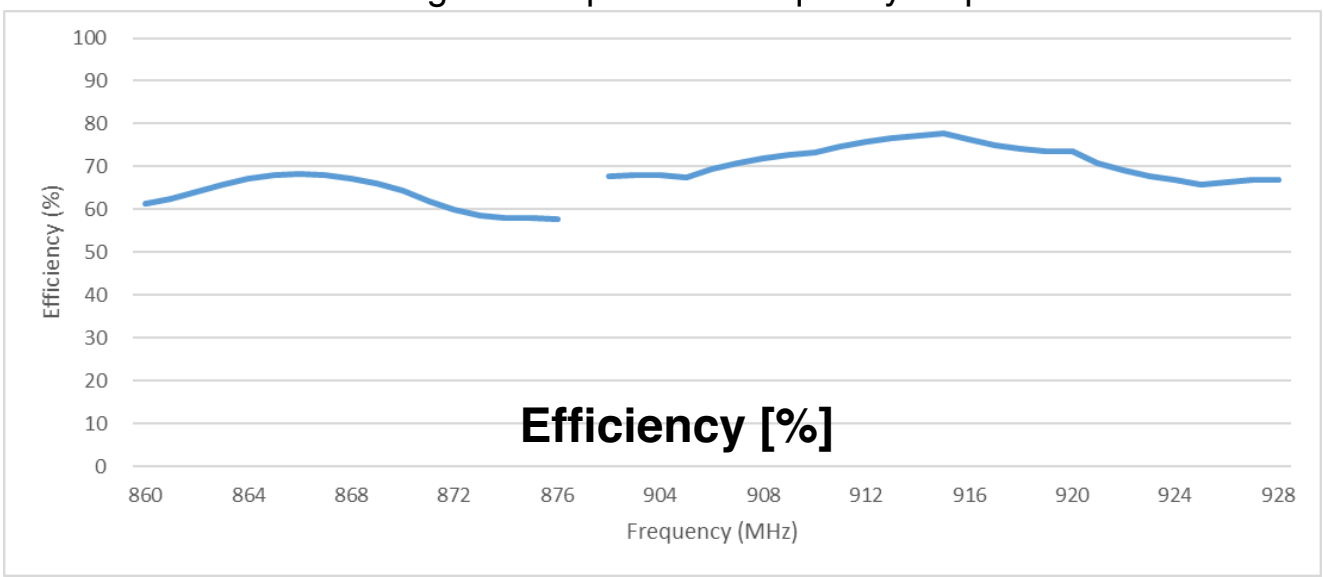
Charts In Free Space



Test setup, measurement performed in 3D anechoic chamber.

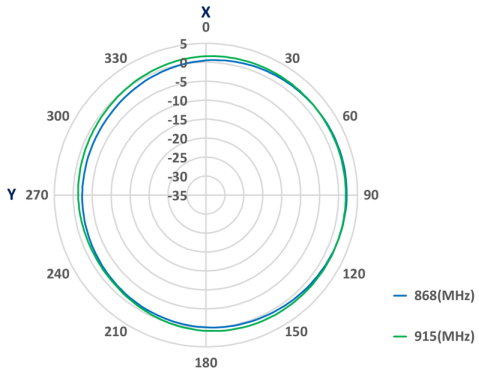


Blue background represents frequency response.

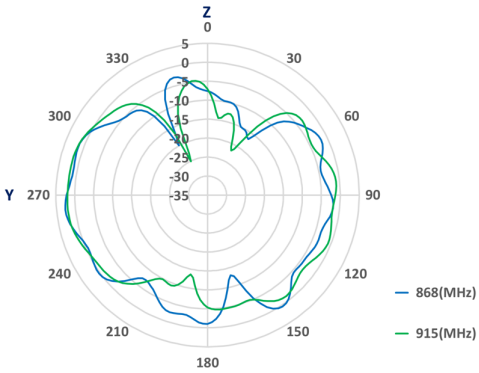


Radiation Pattern - Free Space

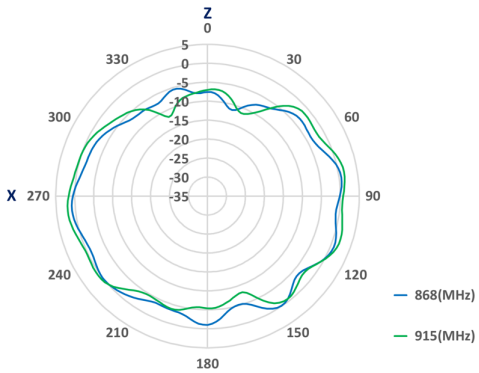
XY - Plane



YZ - Plane



XZ - Plane



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