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



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 | |



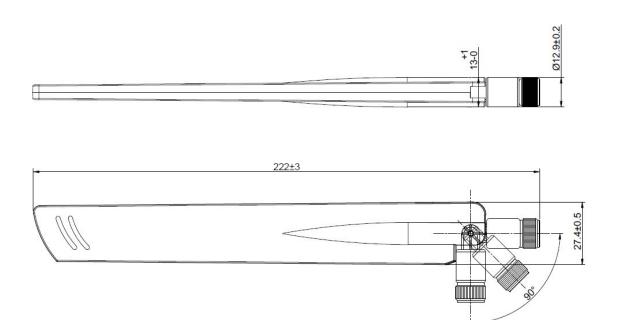
| | Me | cha | nica | I Sp | peci | fica | tior | าร |
|--|----|-----|------|------|------|------|------|----|
|--|----|-----|------|------|------|------|------|----|

| Mechanical 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

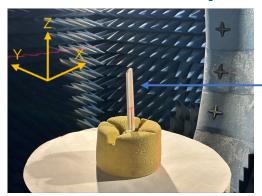
Unit: mm



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Charts In Free Space

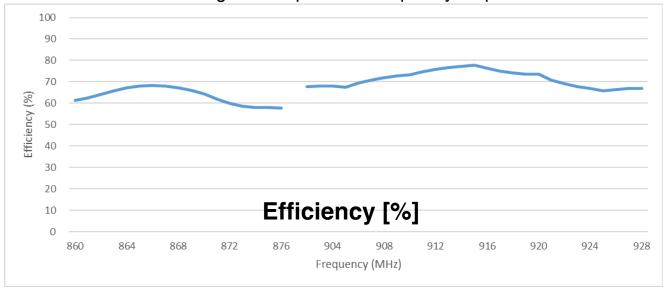


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Test setup, measurement performed in 3D anechoic chamber.

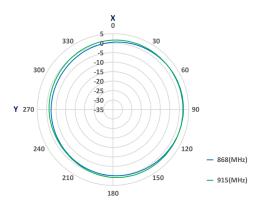


Blue background represents frequency response.

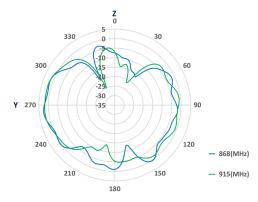


Radiation Pattern - Free Space

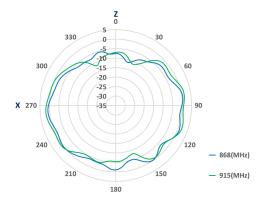
XY - Plane



YZ - Plane



XZ - Plane







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

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