

### Datasheet

## 0.69-0.96GHz & 1.7-2.7GHz

External / In-building



Stick Antenna

### Features:

High performing full 4G LTE band antenna with N-Type connector for Outdoor applications. IP67.

### Applications:

- CPE - Router, Set-top boxes & Gateway
- IoT devices
- 4G LTE Mesh
- Smart Metering
- Robotics



## Electrical Specifications

### Antenna Characteristics

Antenna Type	Radiation Pattern	Polarization	Max. Input Power	Impedance
Stick Antenna	Omni	Linear	5W	50Ω

Frequency (GHz)	0.698~0.96	1.71~2.17	2.3~2.69
Return Loss (dB)	< -6	< -5	< -6
Peak Gain (dBi)	5.8	4.6	5.9
Average Gain (dB)	-1.7	-3.8	-2.4
Efficiency (%)	67	42	58

**Mechanical Specifications**

**Environmental**

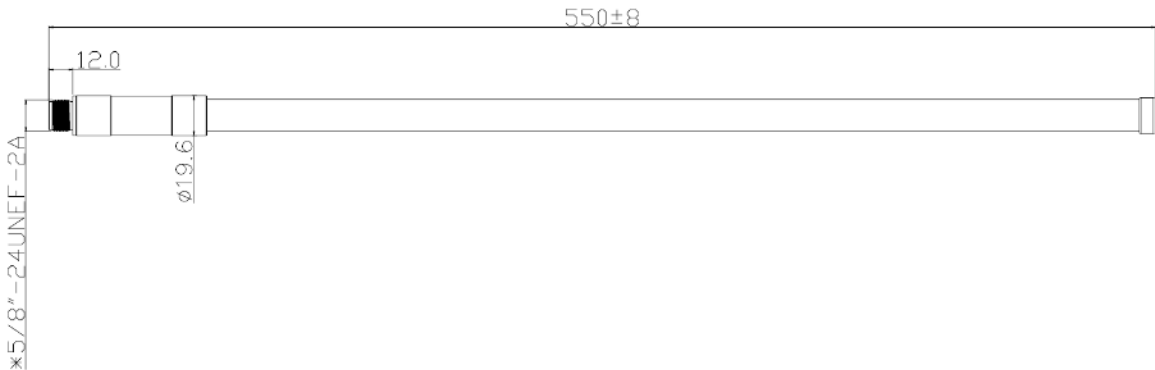
Temperature Range (°C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH
IP Rating	IP67

RoHS Compliant

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST0326-41-301-U	550	149.5	N Jack	FR-PPR

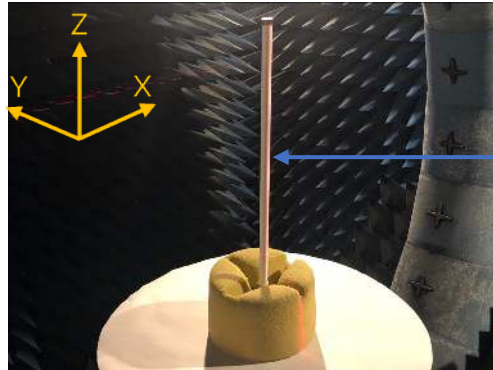
**Mechanical Drawing**

Unit : mm



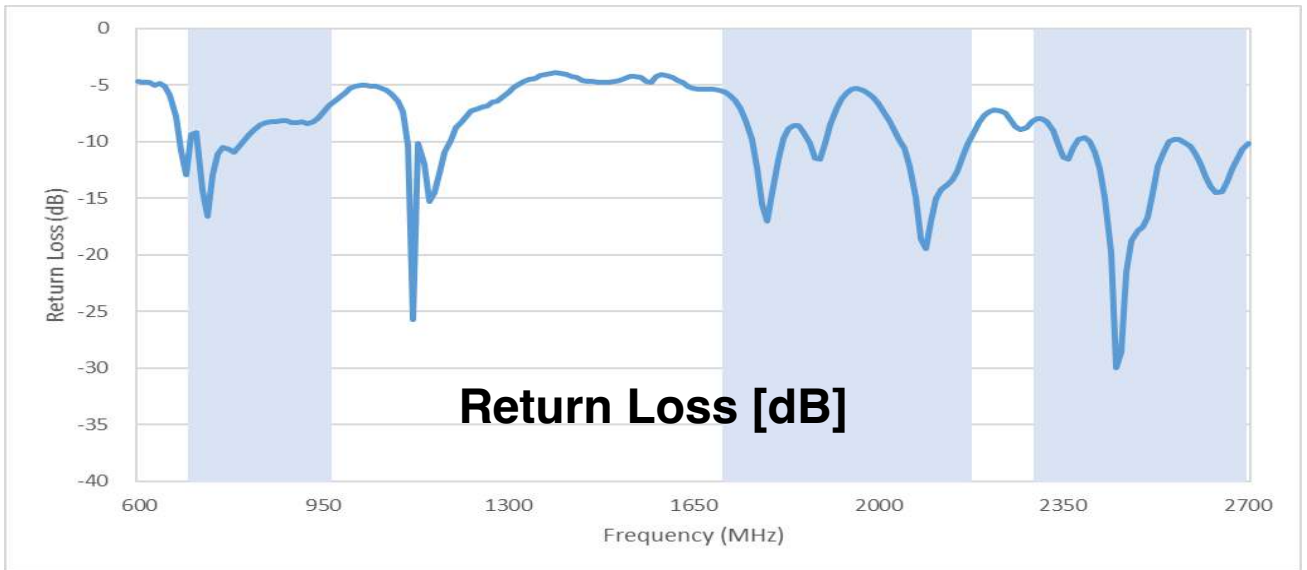
**ST0326-41-301-U**

### Charts In Free Space

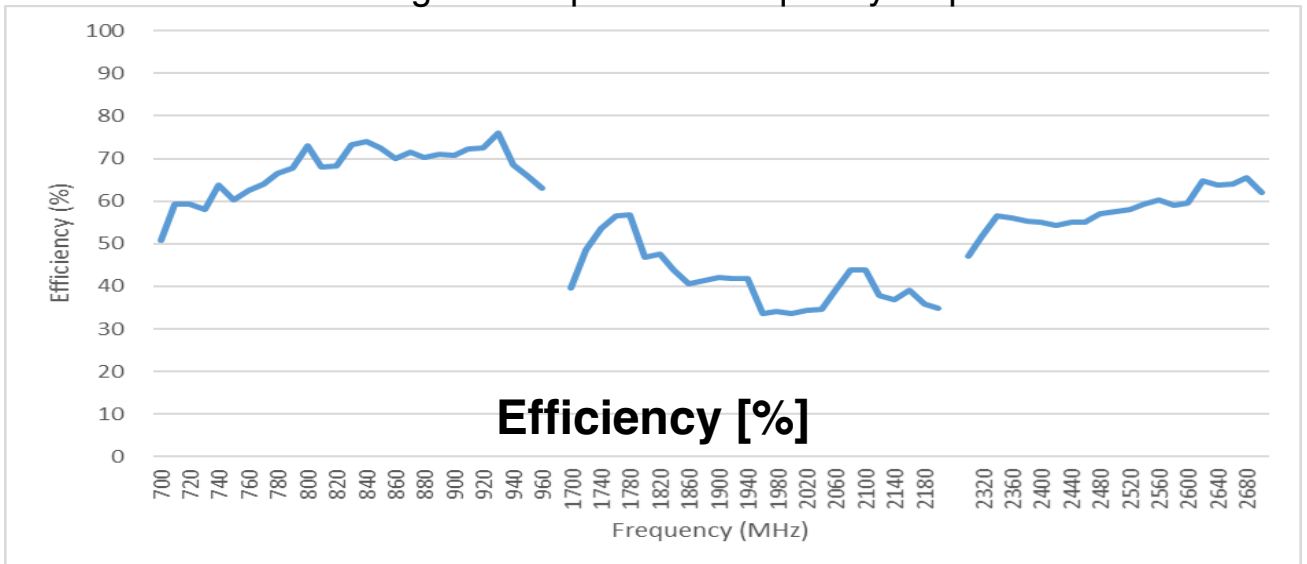


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Test setup, measurement performed in 3D anechoic chamber.

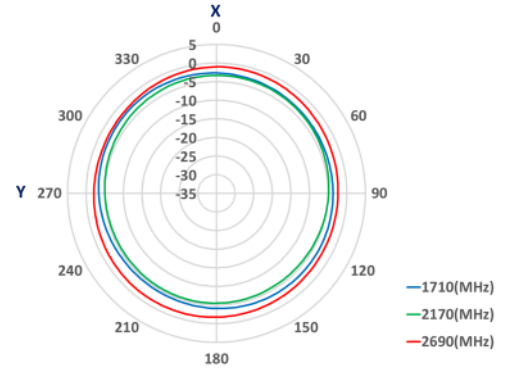
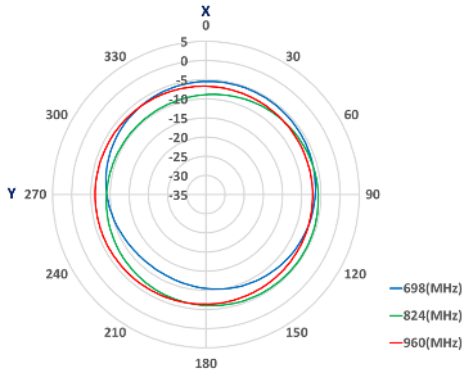


Blue background represents frequency response.

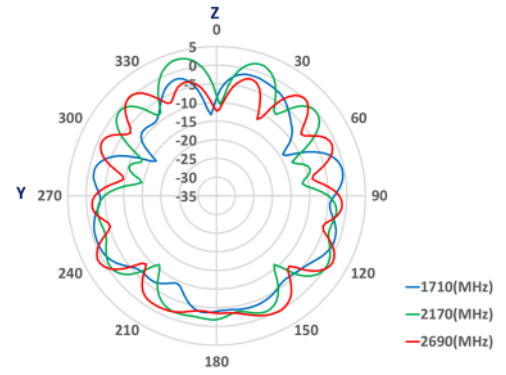
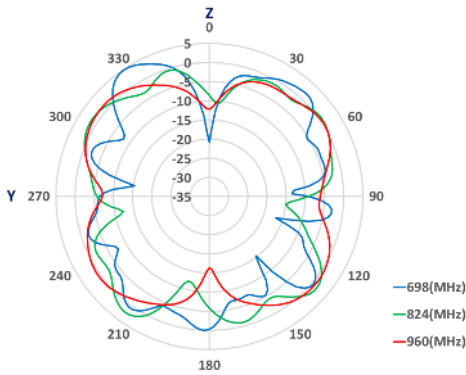


## Radiation Pattern - Free Space

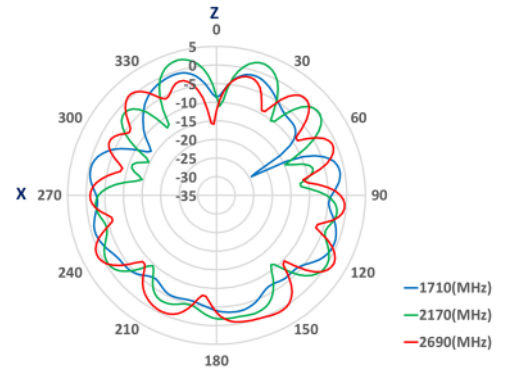
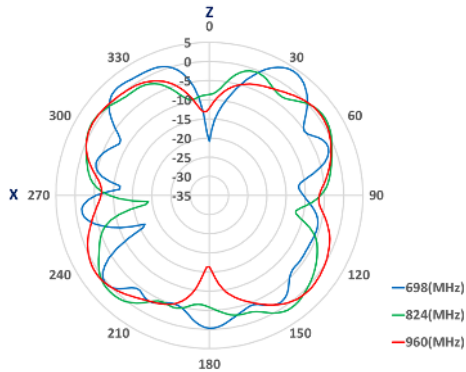
### XY - Plane



### YZ - Plane



### XZ - Plane



**Revisions**

Rev	Description	Date	ECN	Approval
A	Initial Release	2022-10-25	ST0326-41-301-U-RA00	ATC
B	RF Performance update	2023-01-02	ST0326-41-301-U-RB00	ATC

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