

### Datasheet

**0.69-0.96GHz, 1.7-2.7GHz**  
External / In-building

### Features:

High performing full 4G LTE band antenna with SMA/RP-SMA connector for indoor applications

### Applications:

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



**Stick Antenna**



## Electrical Specifications

### Antenna Characteristics

Antenna Type	Radiation Pattern	Polarization	Max. Input Power	Impedance
Stick Antenna	Omni	Linear	2W	50Ω

Frequency (GHz)	0.69~0.96	1.71~2.17	2.3~2.7
Return Loss (dB)	< -7	< -8	< -10
Gain, Peak / Average (dB)	3.1 / -2.6	1.7 / -3.3	2.2 / -3.6
Efficiency / Average (%)	55	47	44

**Mechanical Specifications**

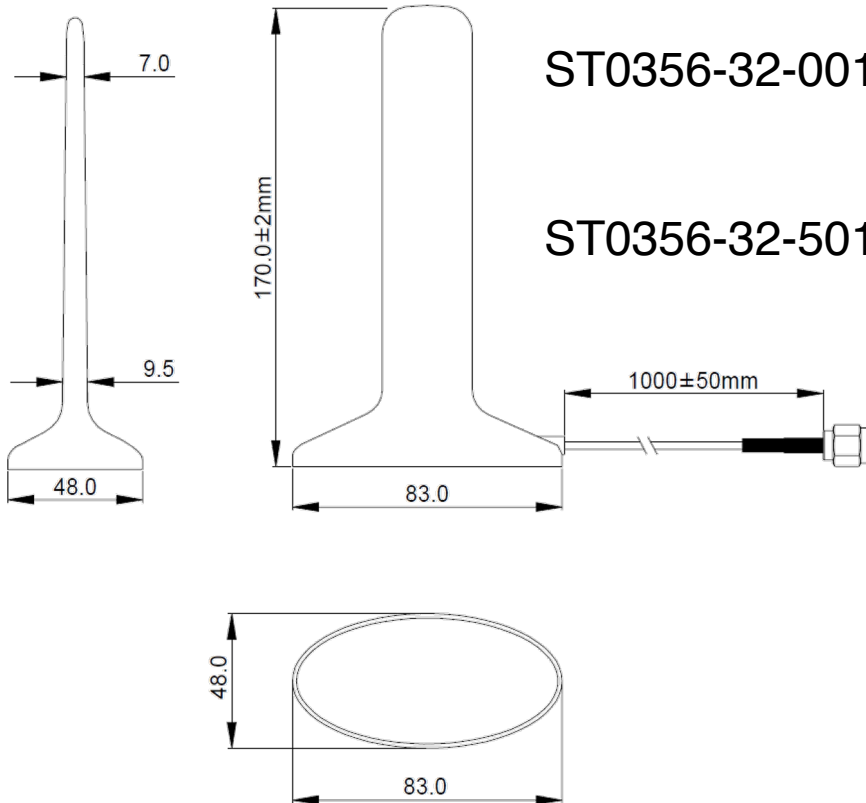
**Environmental**

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

RoHS Compliant

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST0356-32-001-A	170	104.5	SMA Plug	ABS
ST0356-32-501-A	170	104.5	RP-SMA Plug	ABS

**Mechanical Drawing**



ST0356-32-001-A



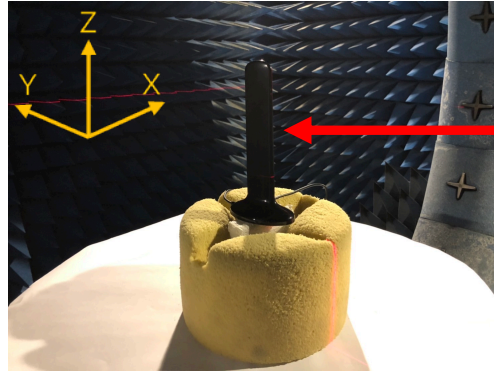
SMA Plug

ST0356-32-501-A



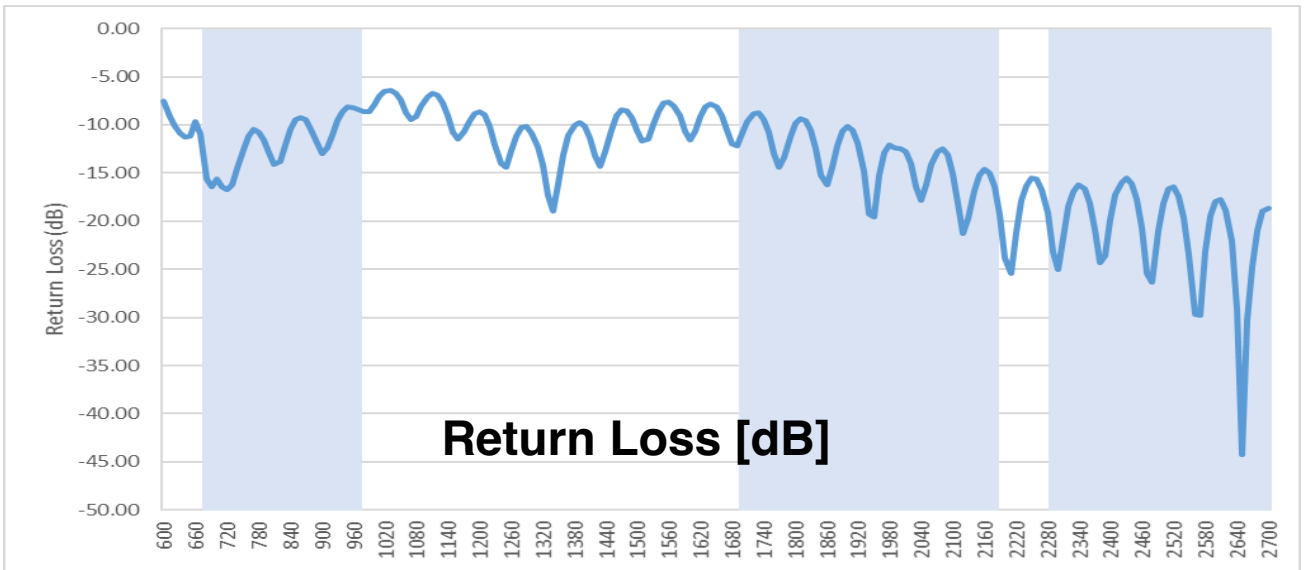
RP-SMA Plug

Charts in Free Space

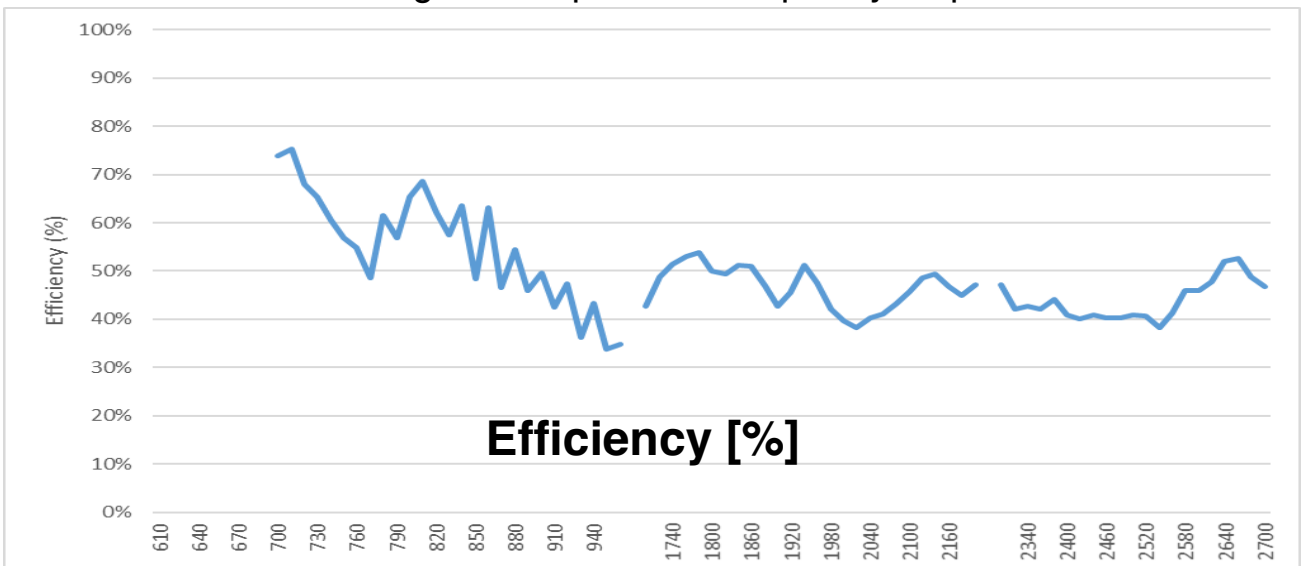


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Test setup, measurement performed in 3D Anechoic Chamber

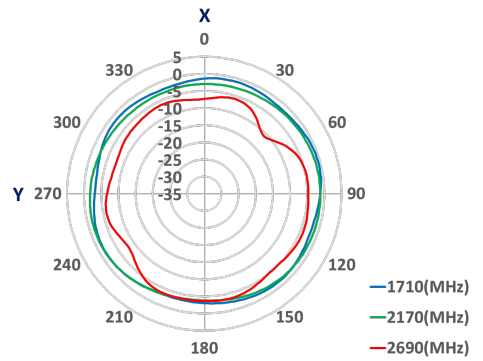
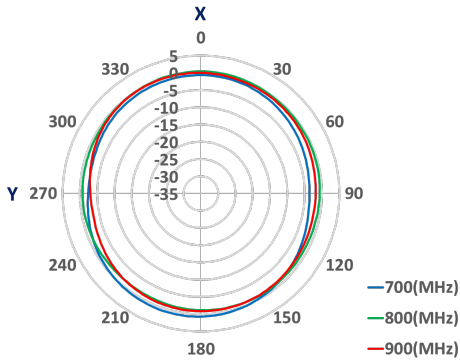


Blue background represents frequency response.

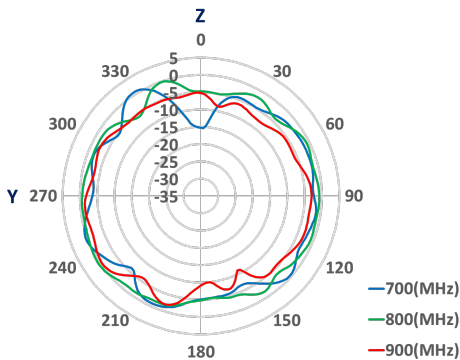


## Radiation Pattern - Free Space

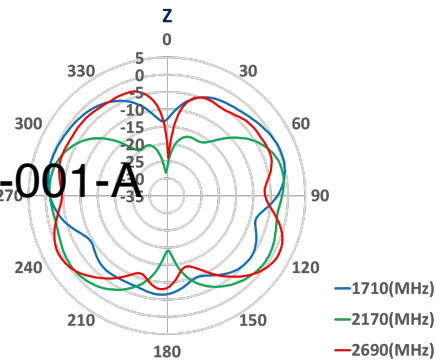
### XY - Plane



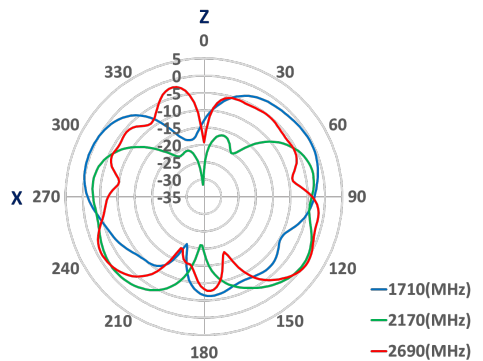
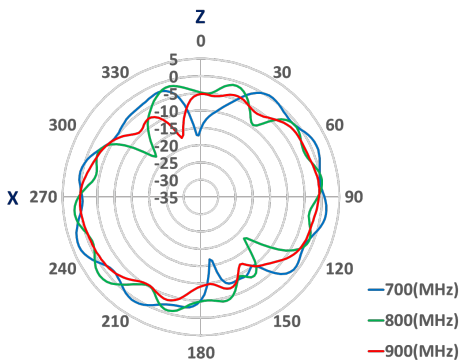
### YZ - Plane



ST0356-32-001-A



### XZ - Plane



Revisions

Rev	Description	Date	ECN	Approval
A	Initial Release	2022-10-25	ST0356-32-X01-A-RA00	ATC
B	RF Performance update	2023-01-02	ST0356-32-X01-A-RB00	ATC

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