

### Datasheet

## 0.69-0.96GHz & 1.7-5.9GHz

External / In-building

### Features:

High performing full Sub-6 band antenna with SMA/RP-SMA connector for indoor applications.

### Applications:

- CPE – Router, Set-top boxes, Gateway
- IoT devices
- Sub-6 Mesh
- Smart Metering
- Robotics



Stick Antenna



## Electrical Specifications

### Antenna Characteristics

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

Frequency (GHz)	0.698~0.8	0.8~0.96	1.71~2.17	2.3~2.69	3.3~5	5.15~5.925
Return Loss (dB)	< -3	< -7	< -7	< -7	< -7	< -5
Peak Gain (dBi)	3.0	3.2	3.1	3.2	5.5	5.5
Average Gain (dB)	-4.2	-4.6	-1.3	-1.2	-1.5	-2.6
Efficiency (%)	38	35	75	75	71	55

**Mechanical Specifications**

**Environmental**

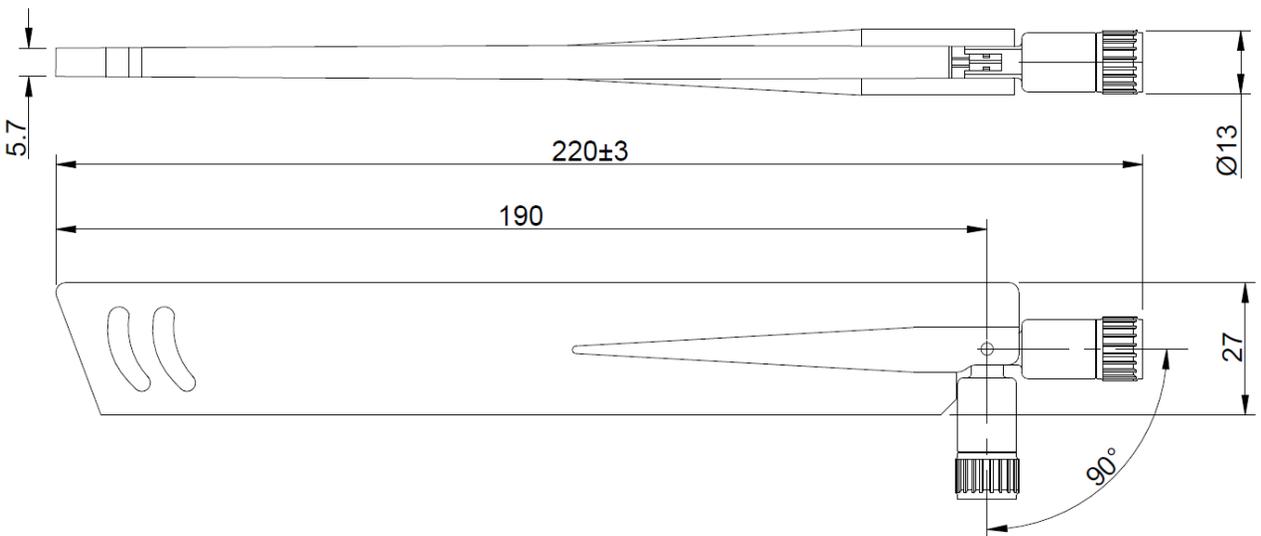
Temperature Range (°C)	-40 to 65
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST0326-40-001-A	220.0	31.0	SMA (Plug)	ABS
ST0326-40-501-A	220.0	31.0	RP-SMA (Plug)	ABS

**Mechanical Drawing**

Unit : mm



ST0326-40-001-A



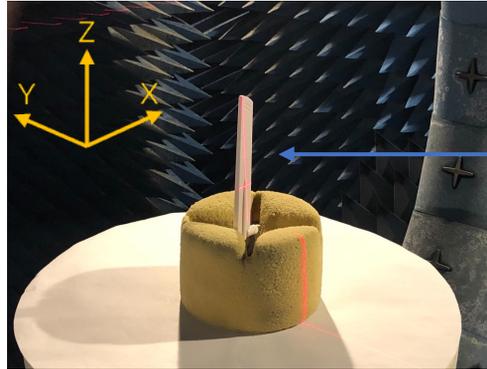
SMA(Male)

ST0326-40-501-A



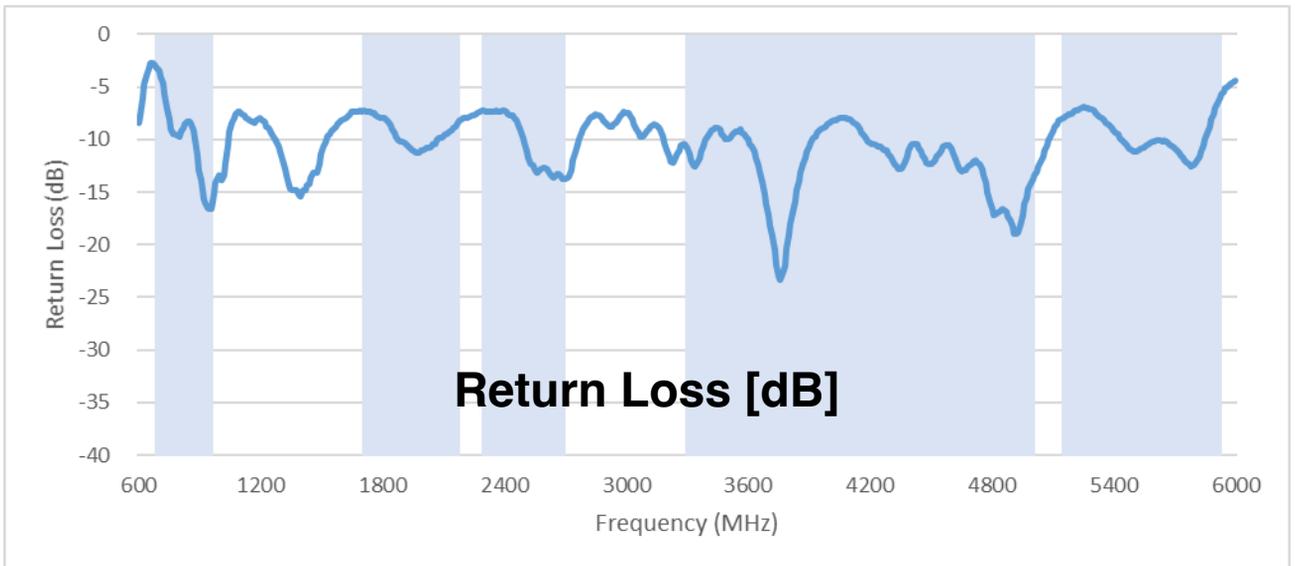
RP-SMA(Male)

### Charts In Free Space

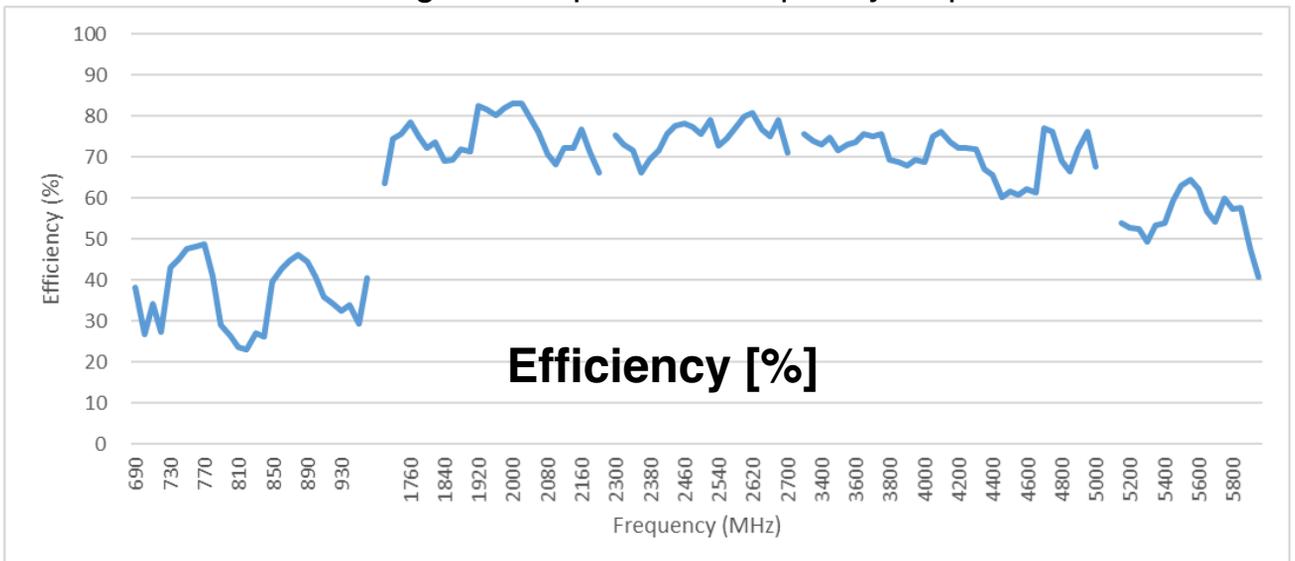


ST0326-40-001-B

Test setup, measurement performed in 3D anechoic chamber.

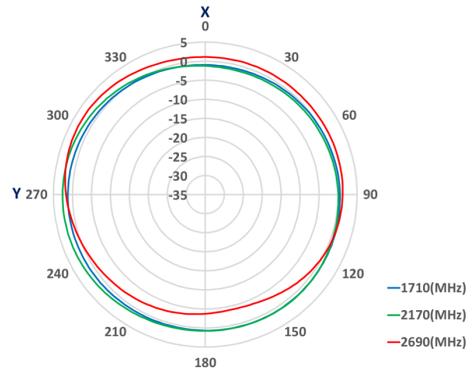
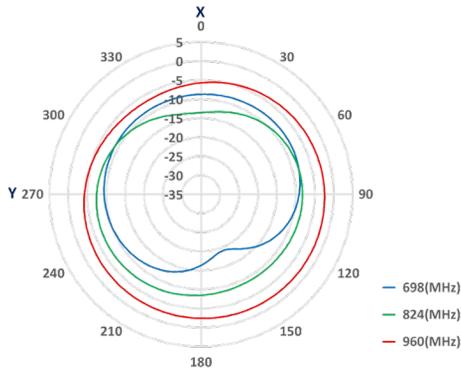


Blue background represents frequency response.

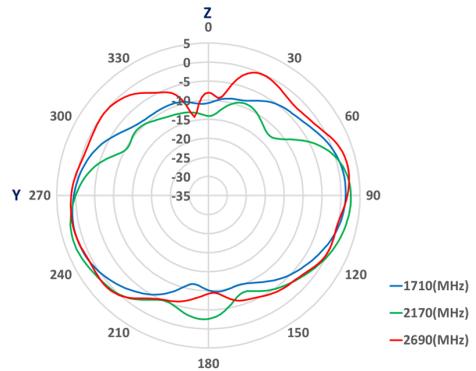
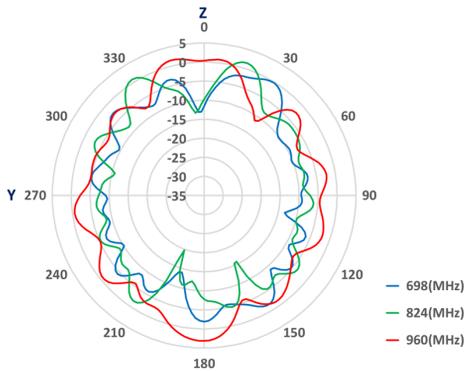


## Radiation Pattern - Free Space

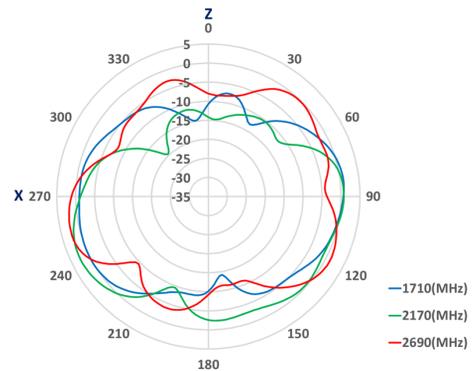
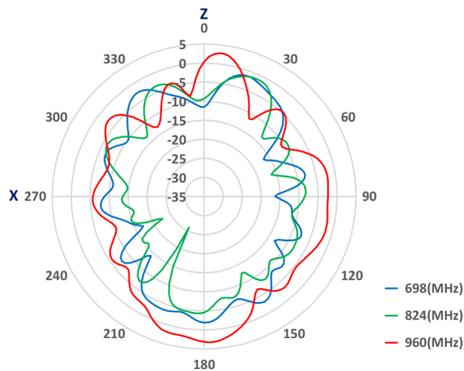
### XY - Plane



### YZ - Plane

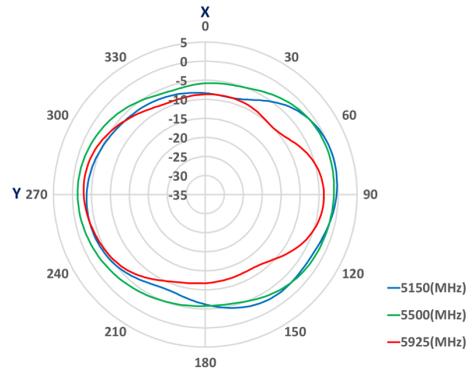
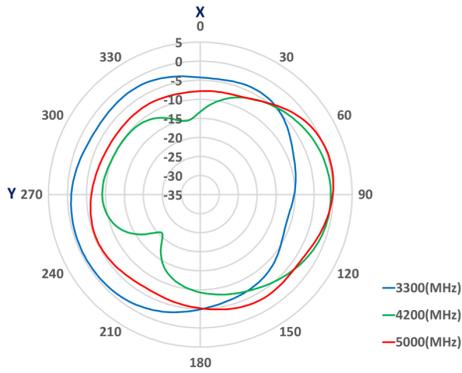


### XZ - Plane

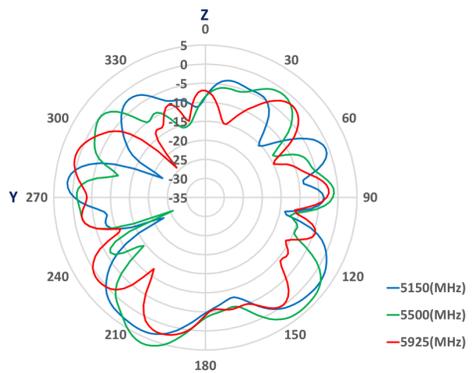
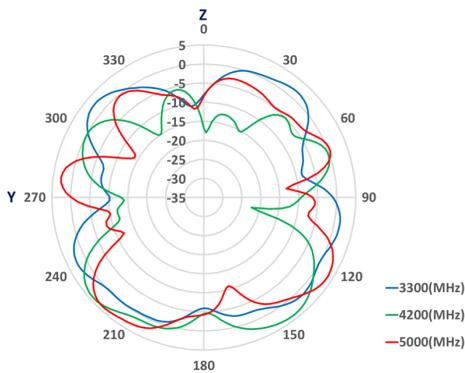


## Radiation Pattern - Free Space

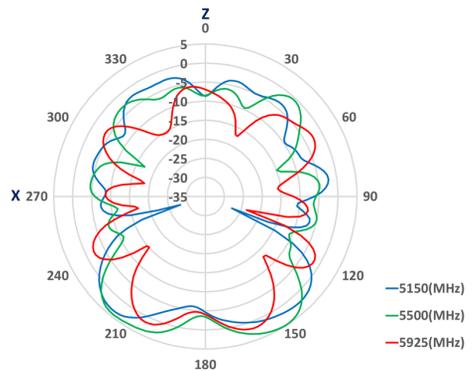
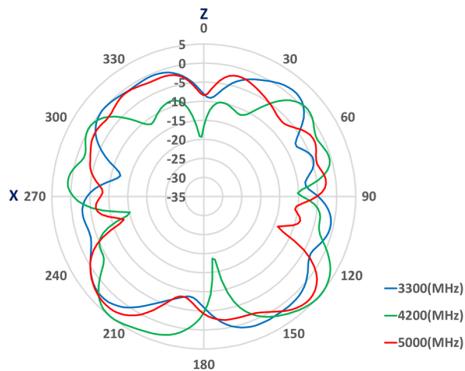
### XY - Plane



### YZ - Plane



### XZ - Plane



### Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2022-12-06	ST0326-40-X01-B-RA00	ATC

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