

## Datasheet

## 0.62-0.96GHz &amp; 1.45-5.9GHz

External / Outdoor



Stick Antenna

Features:

High performing full Sub-6G band antenna with N type connector, with IP67 grade for outdoor applications.

Applications:

- CPE – Router, Set-top boxes, Gateway
- IoT devices
- Sub-6 Mesh
- Robotics
- Cellular IoT: LTE-M (Cat-M1) and NB-IoT
- Private cellular networks (CBRS)



## Electrical Specifications

## Antenna Characteristics

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

Frequency (GHz)	0.617~0.8	0.8~0.96	1.42~1.52	1.71~2.69	3.3~5	5.15~5.925
Return Loss (dB)	< -4	< -6	< -7	< -10	< -10	< -10
Peak Gain (dBi)	2.0	2.5	2.9	4.0	4.0	3.9
Average Gain (dB)	-3.2	-3.7	-2.8	-2.5	-2.2	-3.0
Efficiency (%)	48	43	52	56	60	50

Mechanical Specifications

Environmental

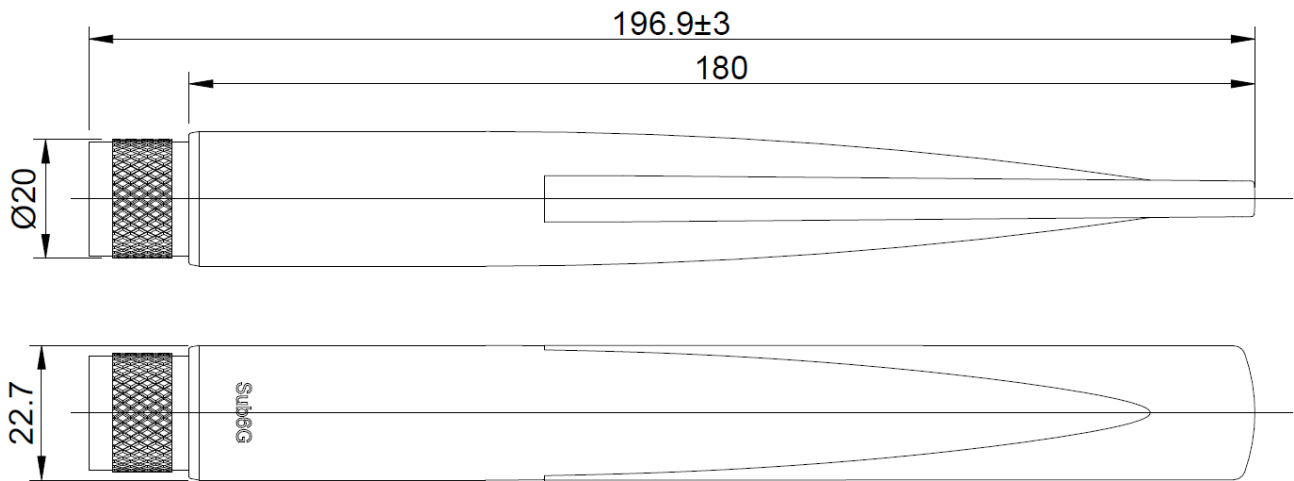
Temperature Range (°C)	-40 to 85
IP Rating	IP67

RoHS Compliant

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST0426-31-301-B	196.9	65.5	N-type (Plug)	ABS

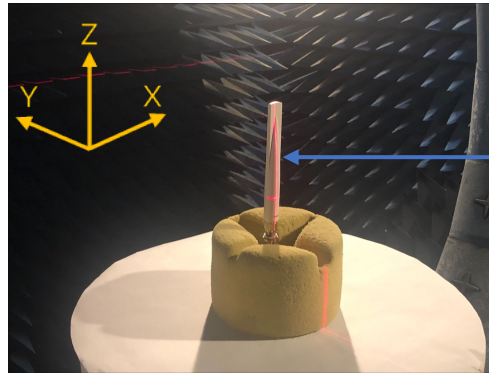
Mechanical Drawing

Unit : mm



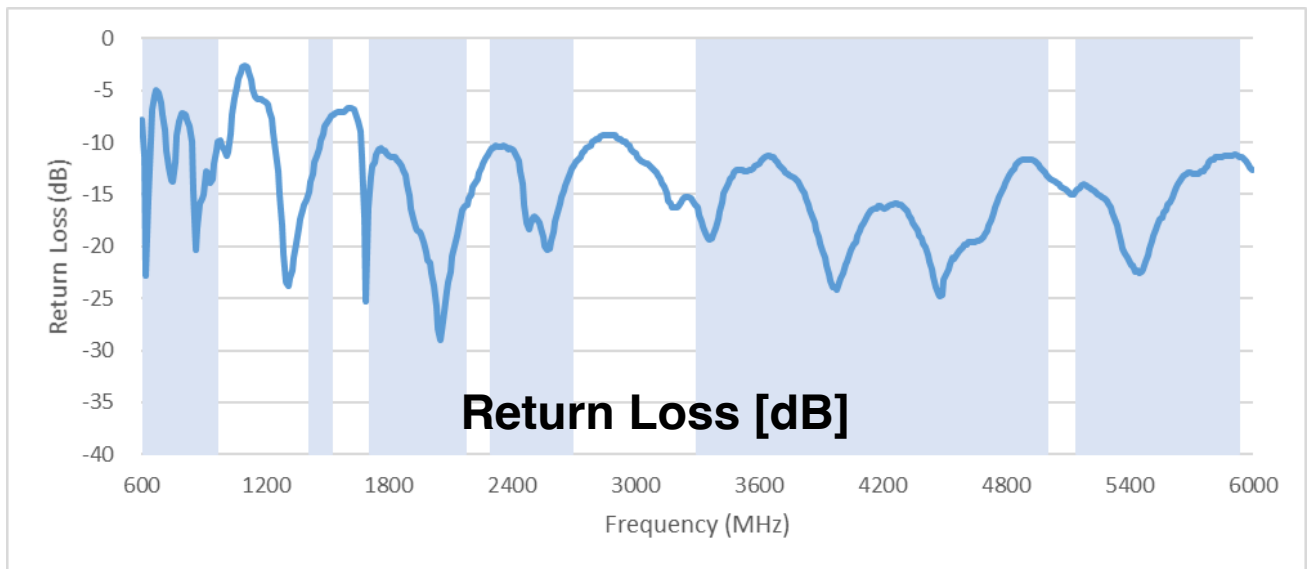
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## Charts In Free Space

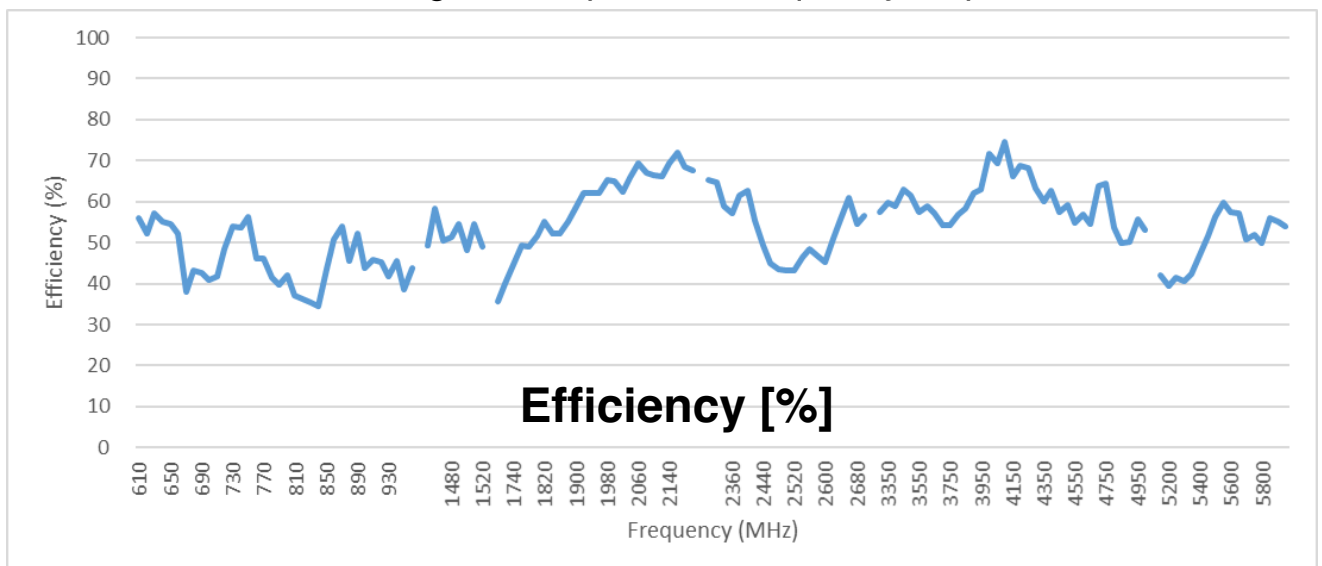


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Test setup, measurement performed in 3D anechoic chamber.

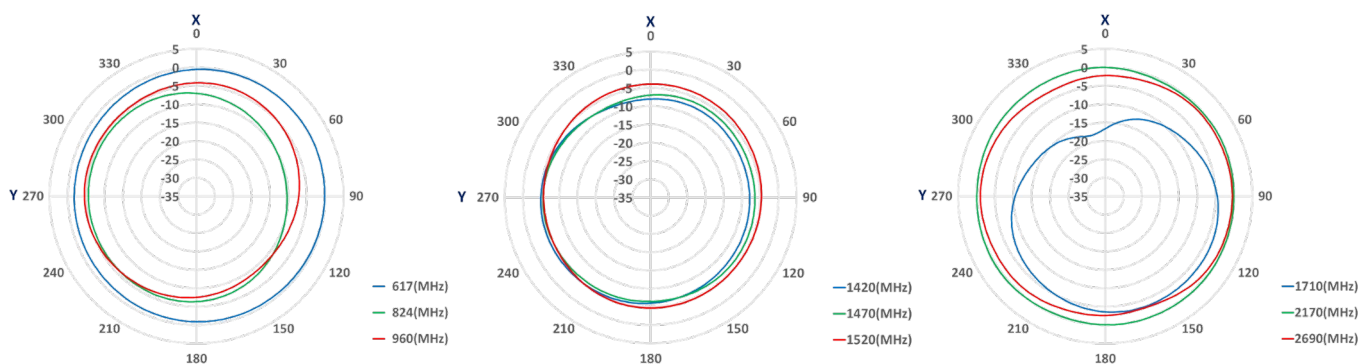


Blue background represents frequency response.

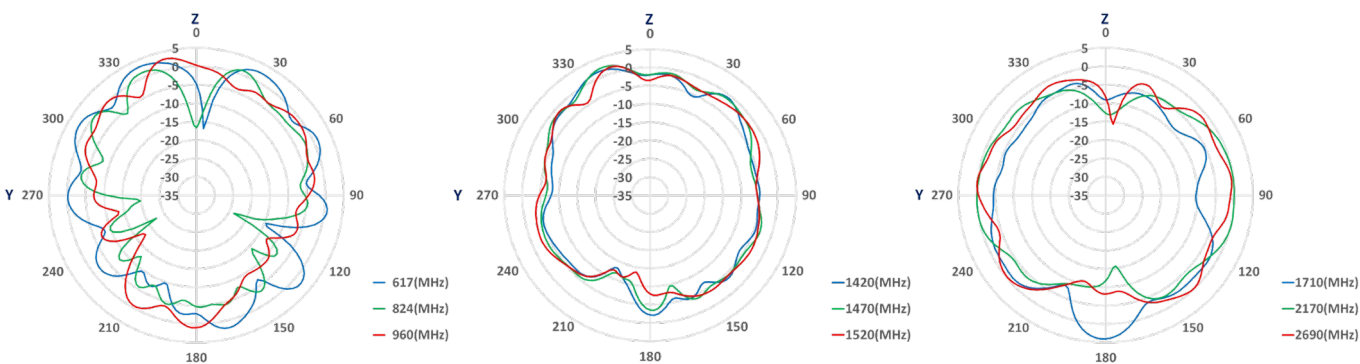


## Radiation Pattern - Free Space

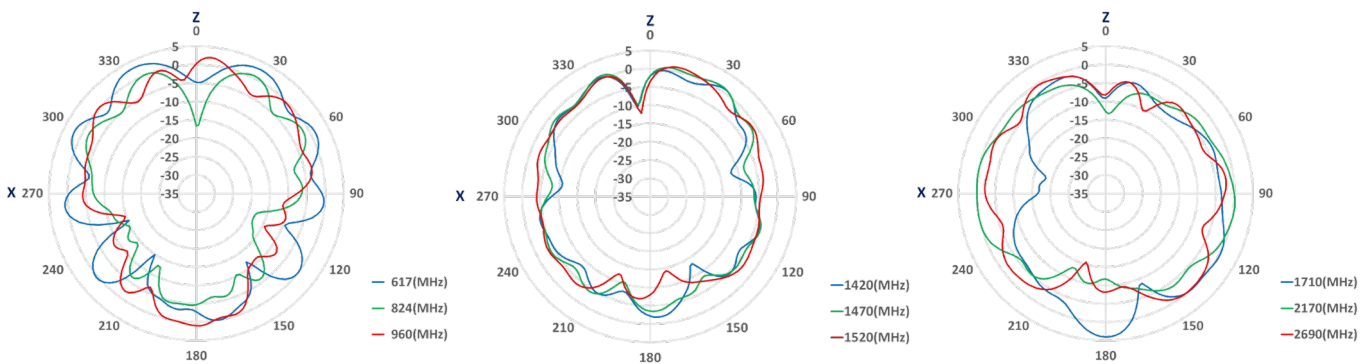
### XY - Plane



### YZ - Plane

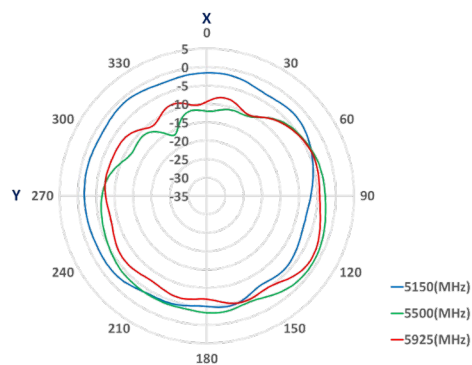
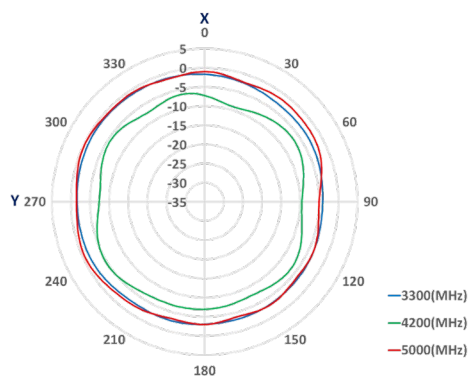


### XZ - Plane

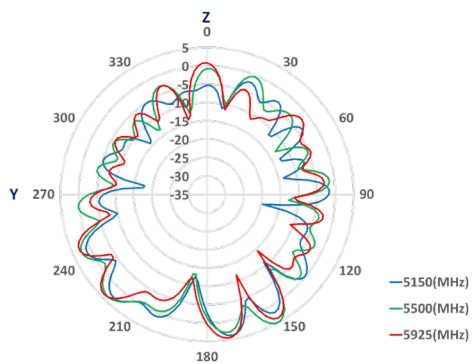
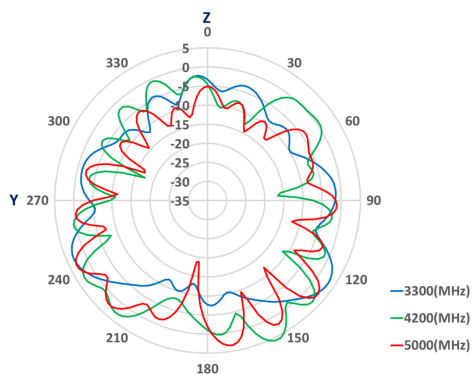


## Radiation Pattern - Free Space

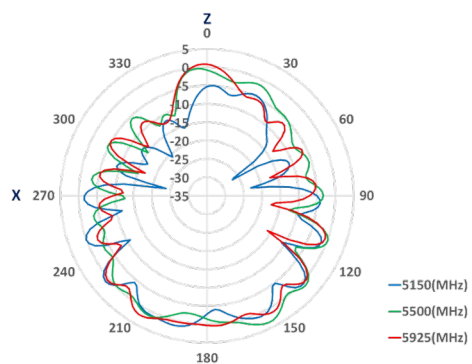
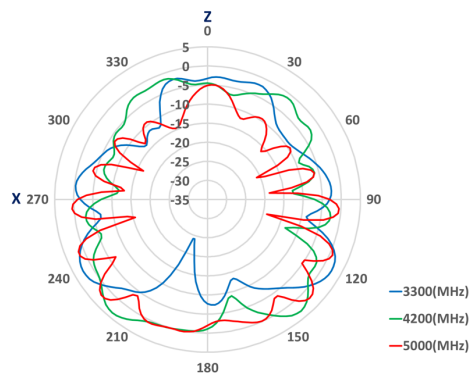
### XY - Plane



### YZ - Plane



### XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2022-12-06	ST0426-31-301-B-RA00	ATC

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