

## Datasheet

## 2.4-2.5GHz & 5.15-5.85GHz

External / Indoor

### Features:

High performing Wi-Fi 6 antenna with RP-SMA connector for indoor applications.



Stick Antenna

### Applications:

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



## Electrical Specifications

### Antenna Characteristics

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

Frequency (GHz)	2.4~2.5	5.15~5.825
Return Loss (dB)	< -6	< -7.4
Peak Gain (dBi)	2.5	2.2
Average Gain (dB)	-1.9	-2.0
Efficiency (%)	65	63

**Mechanical Specifications**

**Mechanical**

Dimension (mm)	47.5 × 16.95
Connector Type	RP-SMA (Plug)
Material	TPEE
Weight (g)	6.0

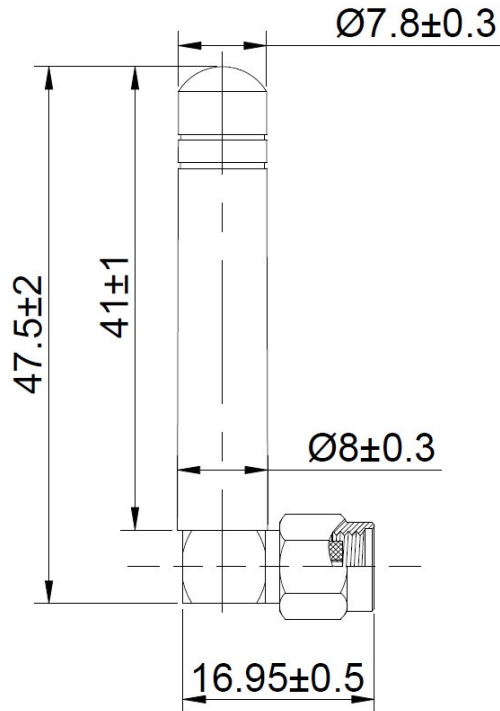
**Environmental**

Temperature Range (°C)	-20 to 70
Humidity	Non-condensing 65°C 95% RH

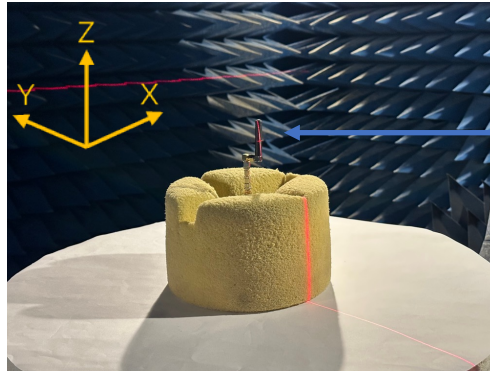
RoHS Compliant

**Mechanical Drawing**

Unit : mm

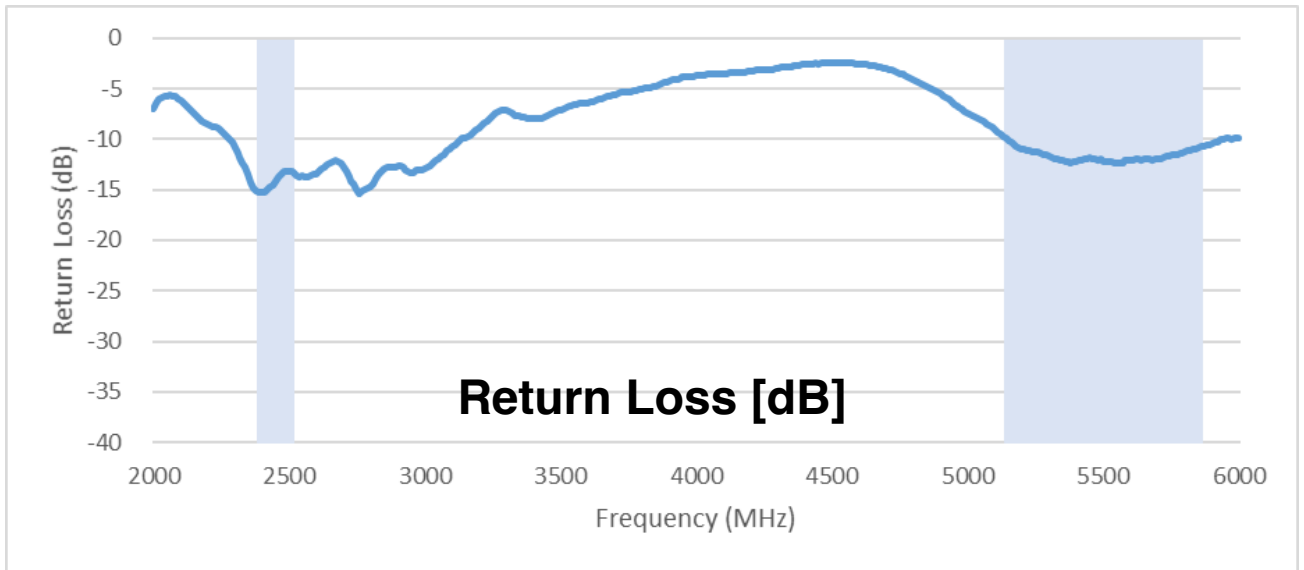


## Charts In Free Space

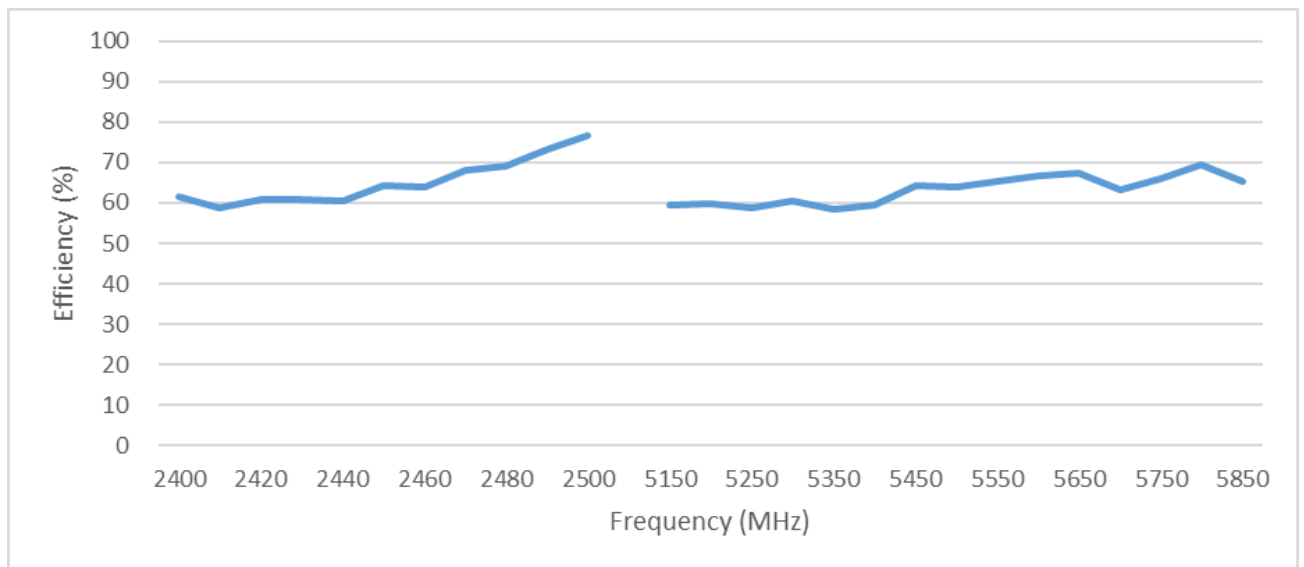


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Test setup, measurement performed in 3D anechoic chamber.

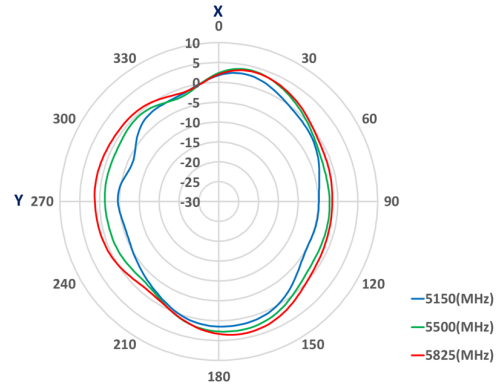
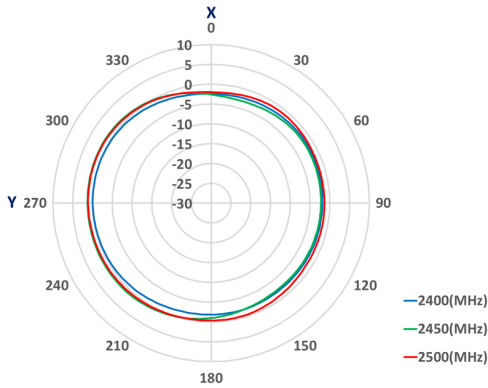


Blue background represents frequency response.

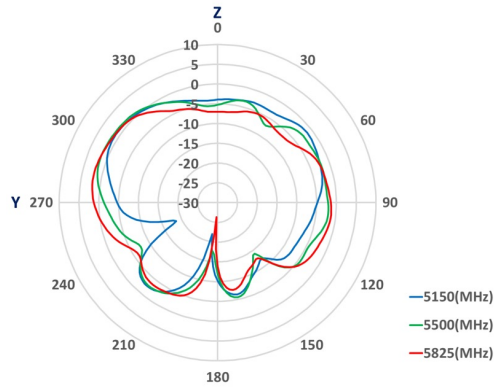
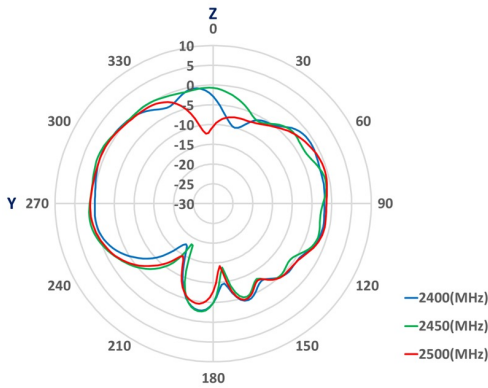


## Radiation Pattern - Free Space

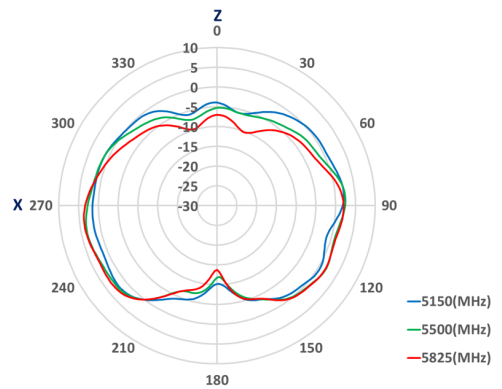
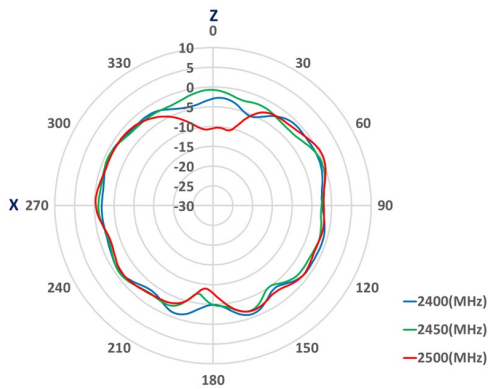
### XY - Plane



### YZ - Plane



### XZ - Plane



### Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-06-14	ST0226-10-501-A-RA00	ATC

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