

Datasheet

2.4-2.5GHz & 5.15-5.85GHz

External / In-building

Features:

High performing Wi-Fi dual-band antenna with RP-SMA connector with IP65 grade for indoor applications.

Applications:

- CPE – Router, Set-top boxes, Gateway
- IoT devices
- Wi-Fi 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)	2.4~2.5	5.15~5.825
Return Loss (dB)	< -10	< -10
Peak Gain (dBi)	3.5	5.7
Average Gain (dB)	-1.7	-1.8
Efficiency (%)	68	67

Mechanical Specifications

Environmental

Temperature Range (°C) -40 to 85

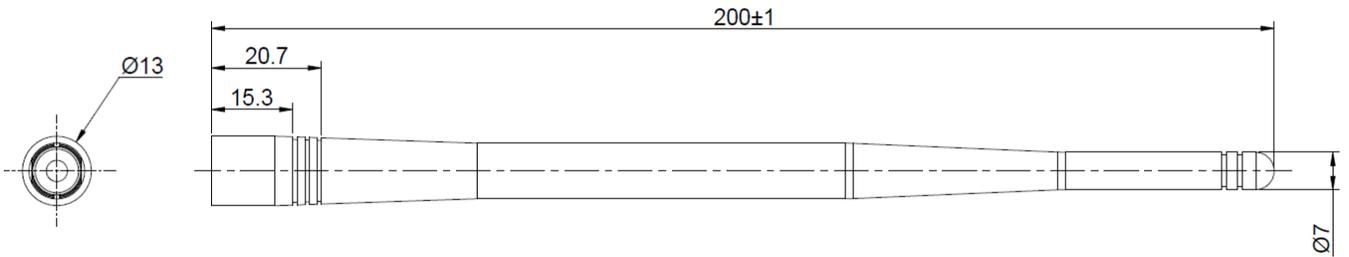
IP Rating IP65

RoHS Compliant

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST0226-40-501-B	200.0	15.8	RP-SMA (Plug)	PE

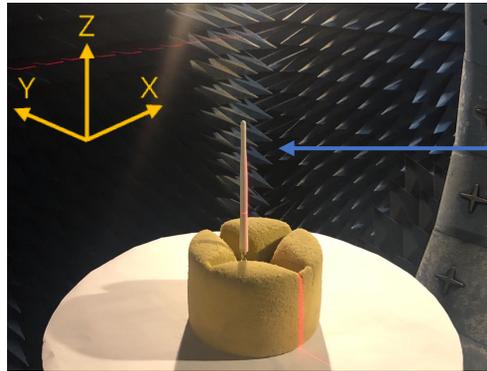
Mechanical Drawing

Unit : mm



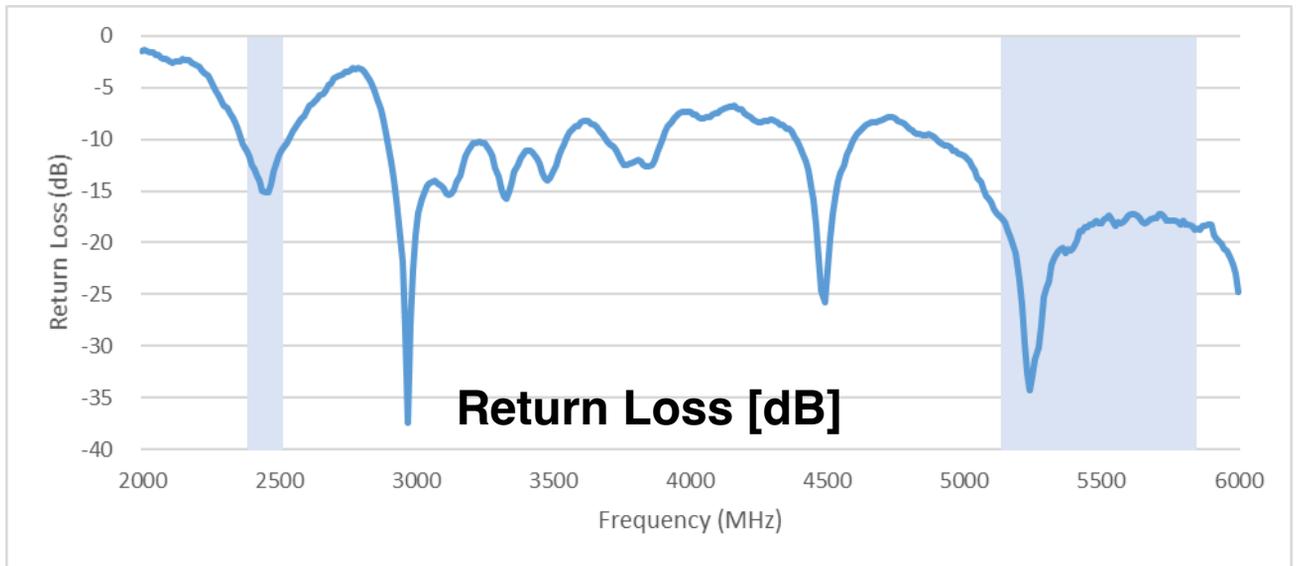
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Charts In Free Space

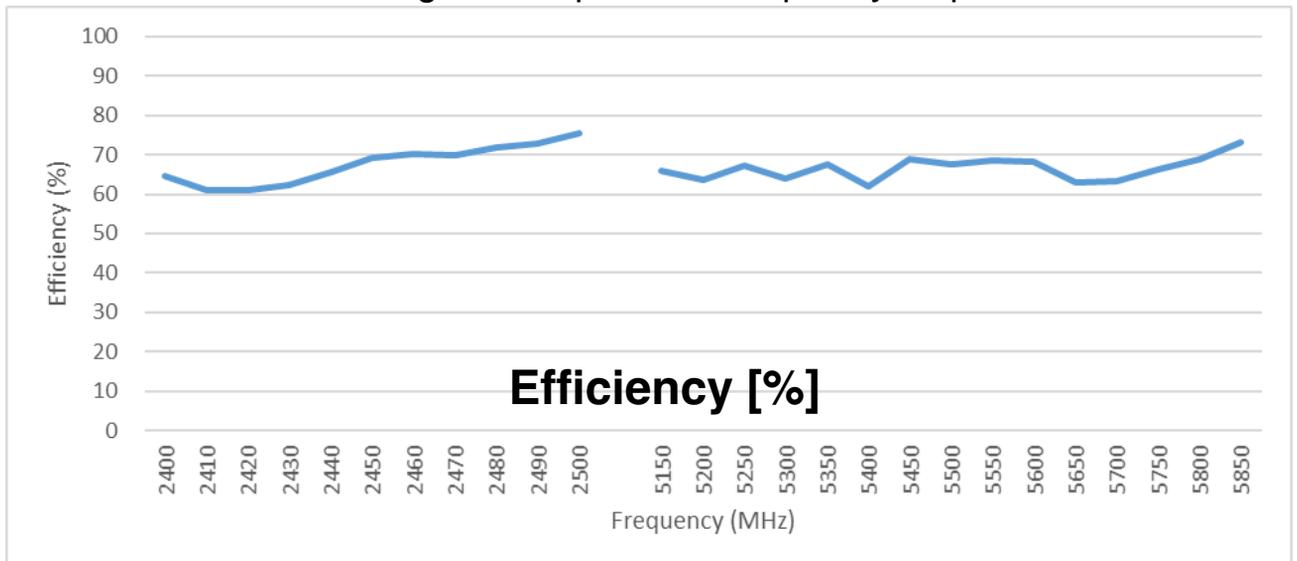


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Test setup, measurement performed in 3D anechoic chamber.

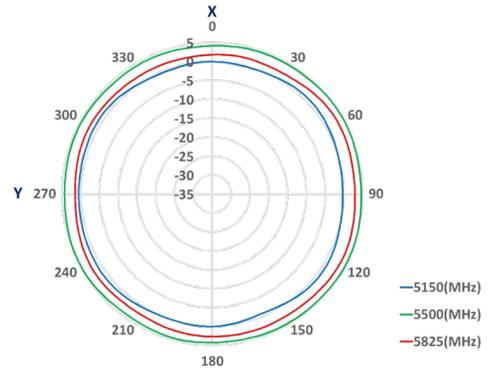
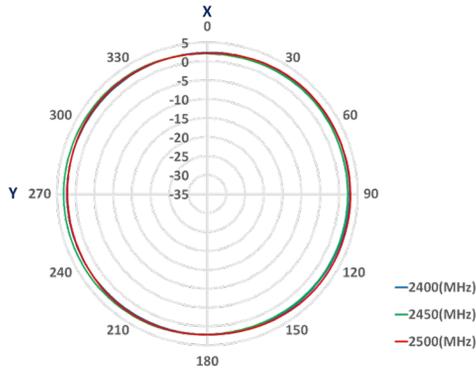


Blue background represents frequency response.

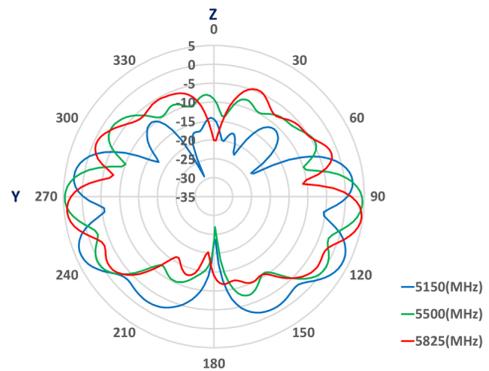
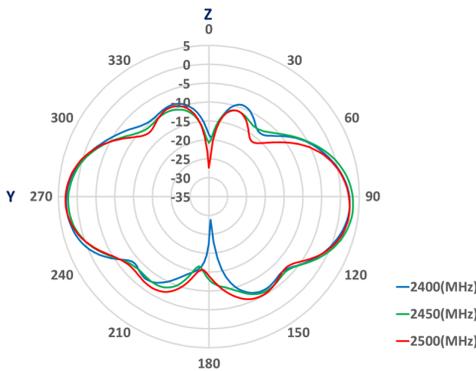


Radiation Pattern - Free Space

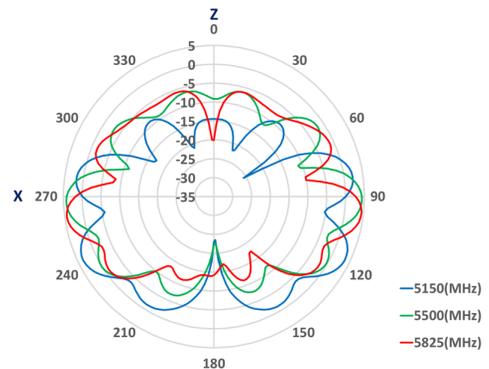
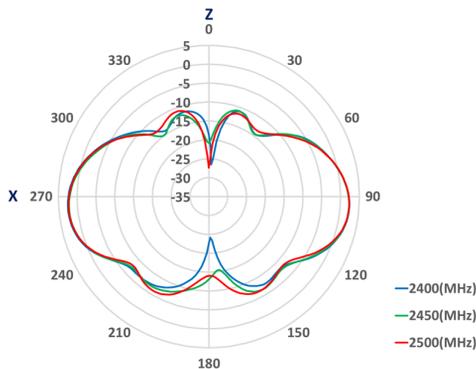
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2022-12-07	ST0226-40-501-B-RA00	ATC

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