

Datasheet

2.4-2.5Ghz & 5.15-5.85GHz
External / In-building



Stick Antenna

Features:

High performing Wi-Fi dual-band antenna with SMA/RP-SMA connector for indoor applications

Applications:

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



Electrical Specifications

Antenna Characteristics

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

Frequency (GHz)	2.4 – 2.5	5.15 – 5.85
Return Loss (dB)	< -10	< -10
Gain, Peak / Average (dB)	2.8 / -1.2	4.9 / -1.0
Efficiency / Average (%)	75	79

Mechanical Specifications

Environmental

Temperature Range (°C)

-40 to 85

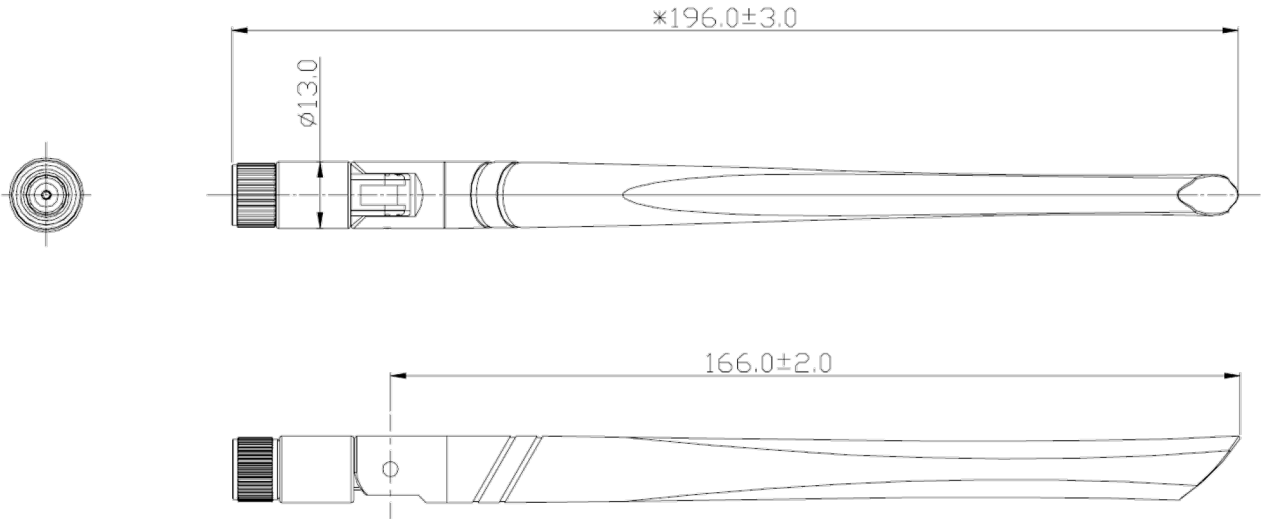
Humidity

Non-condensing 65°C 95% RH

RoHS Compliant

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST0228-30-001-A	196	19.76	SMA Plug	TPEE/ABS
ST0228-30-501-A	196	19.76	RP-SMA Plug	TPEE/ABS

Mechanical Drawing



SMA Plug

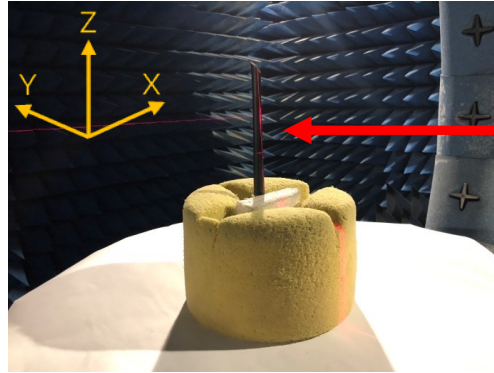
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RP-SMA Plug

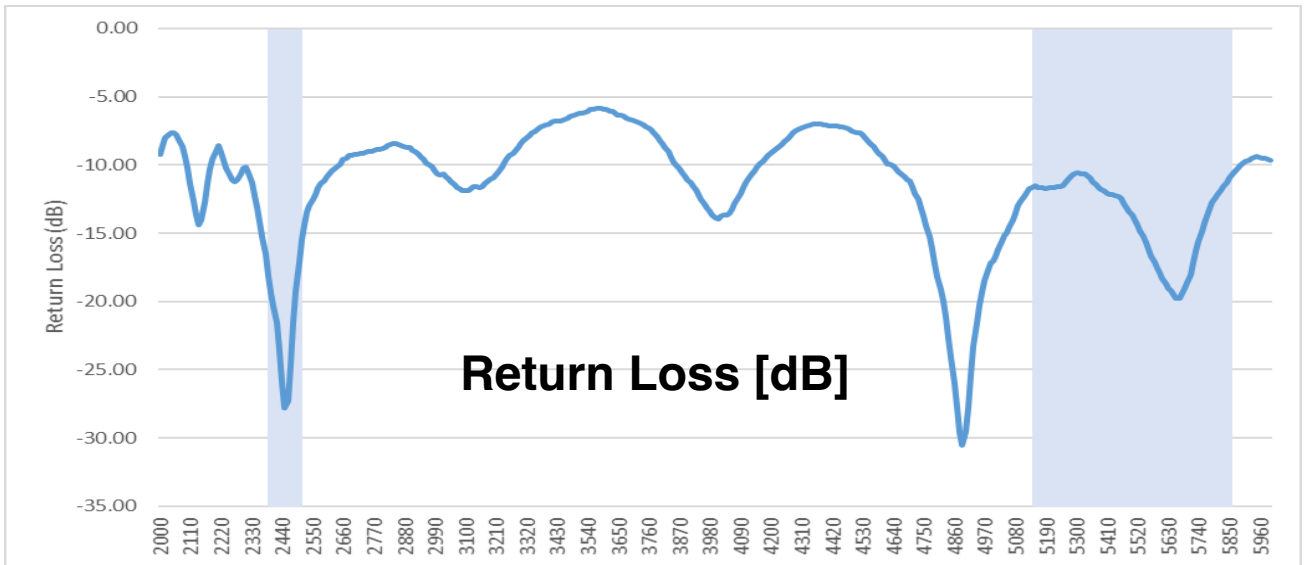
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Charts in Free Space

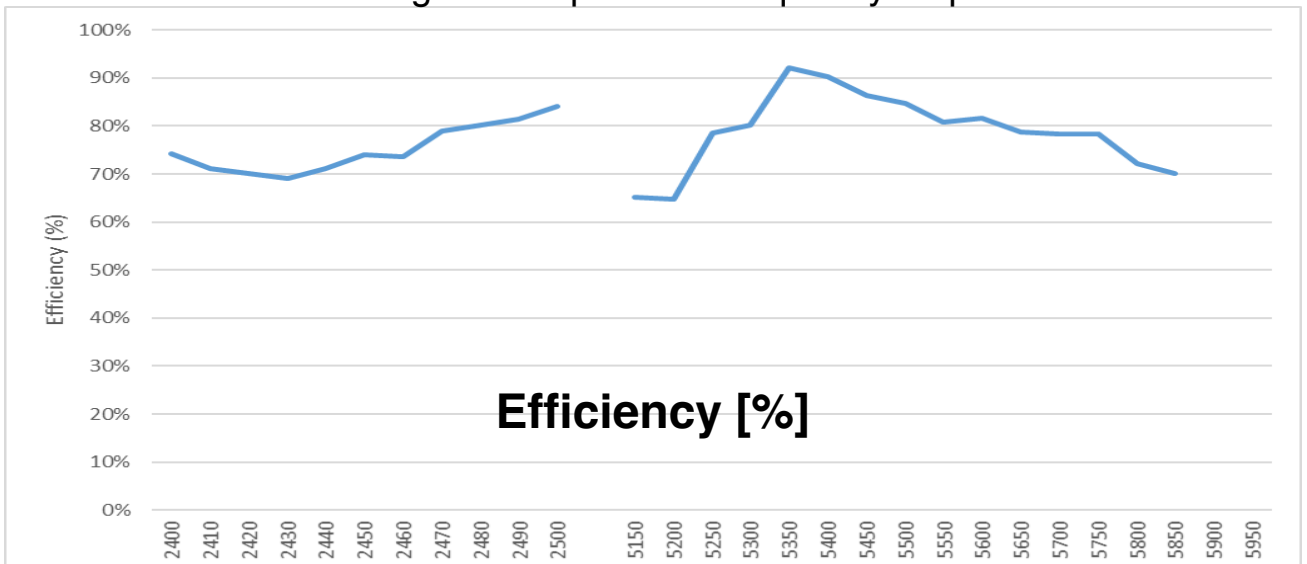


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Test setup, measurement performed in 3D Anechoic Chamber

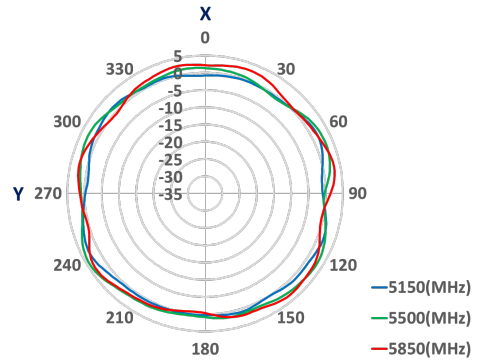
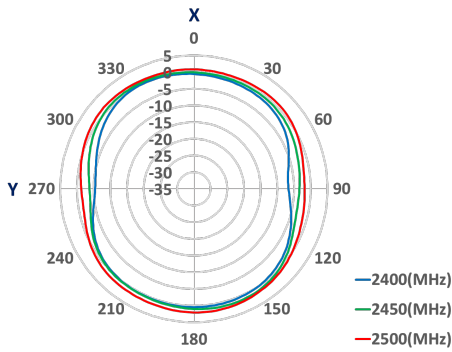


Blue background represents frequency response.

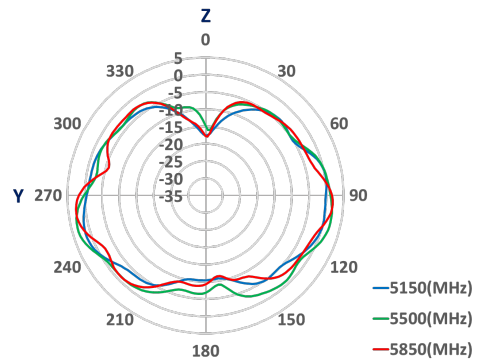
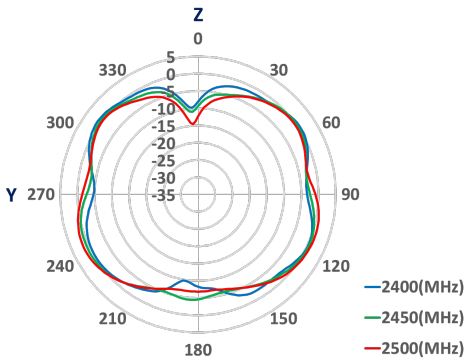


Radiation Pattern - Free Space

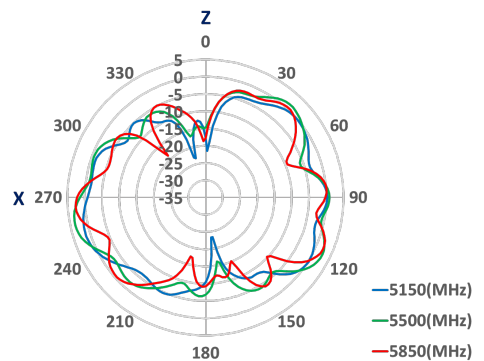
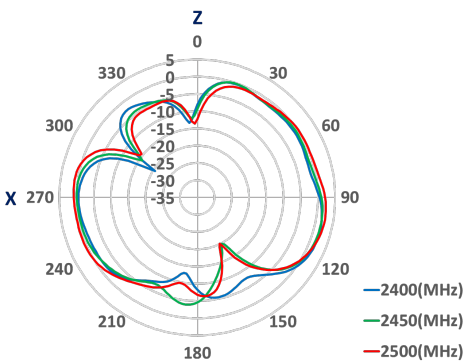
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev	Description	Date	ECN	Approval
A	Initial Release	2022-10-25	ST0228-30-X01-A-RA00	ATC
B	RF Performance update	2023-01-02	ST0228-30-X01-A-RB00	ATC

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