

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	1W	50Ω

Frequency (GHz)	2.4 – 2.5	5.15 – 5.85
Return Loss (dB)	< -10	< -10
Gain, Peak / Average (dB)	3.0 / -0.7	3.4 / -1.3
Efficiency / Average (%)	86	75

Mechanical Specifications

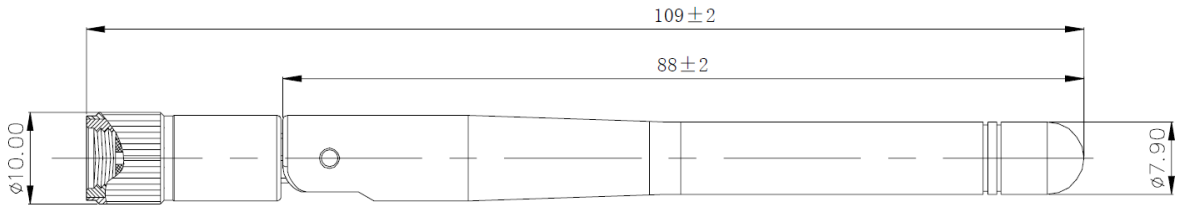
Environmental

Temperature Range (°C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST0226-30-002-A	109	7.46	SMA Plug	TPEE / PC+PBT
ST0226-30-502-A	109	7.46	RP-SMA Plug	TPEE / PC+PBT

Mechanical Drawing



SMA Plug

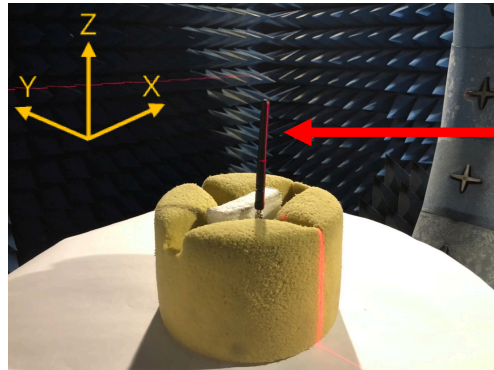
ST0226-30-002-A



RP-SMA Plug

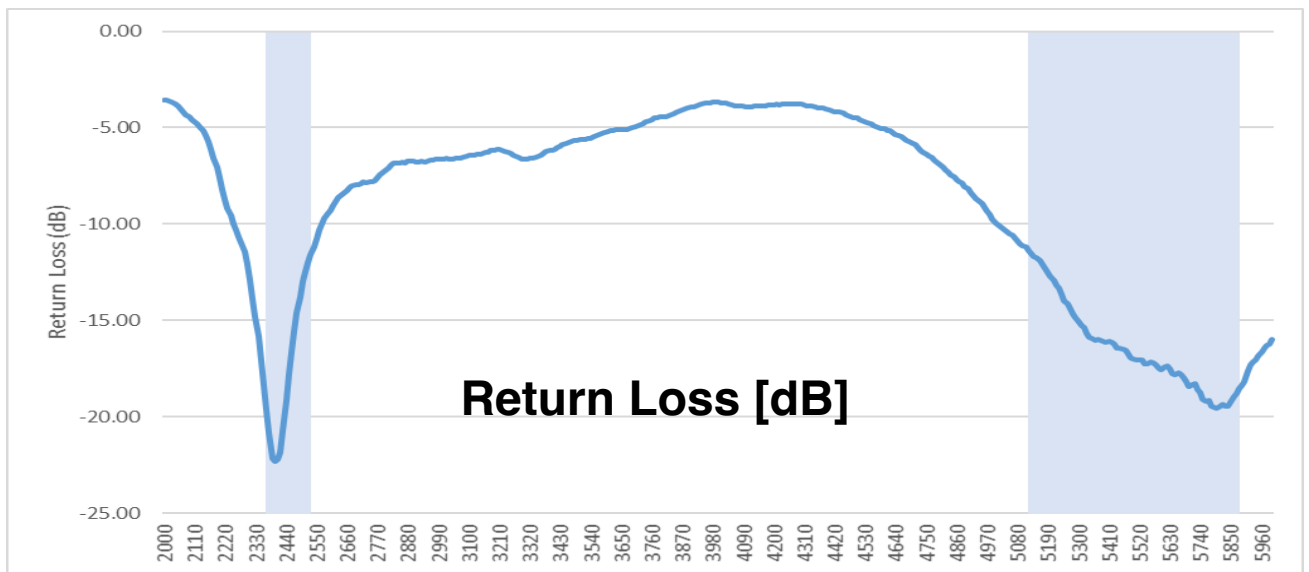
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Charts in Free Space

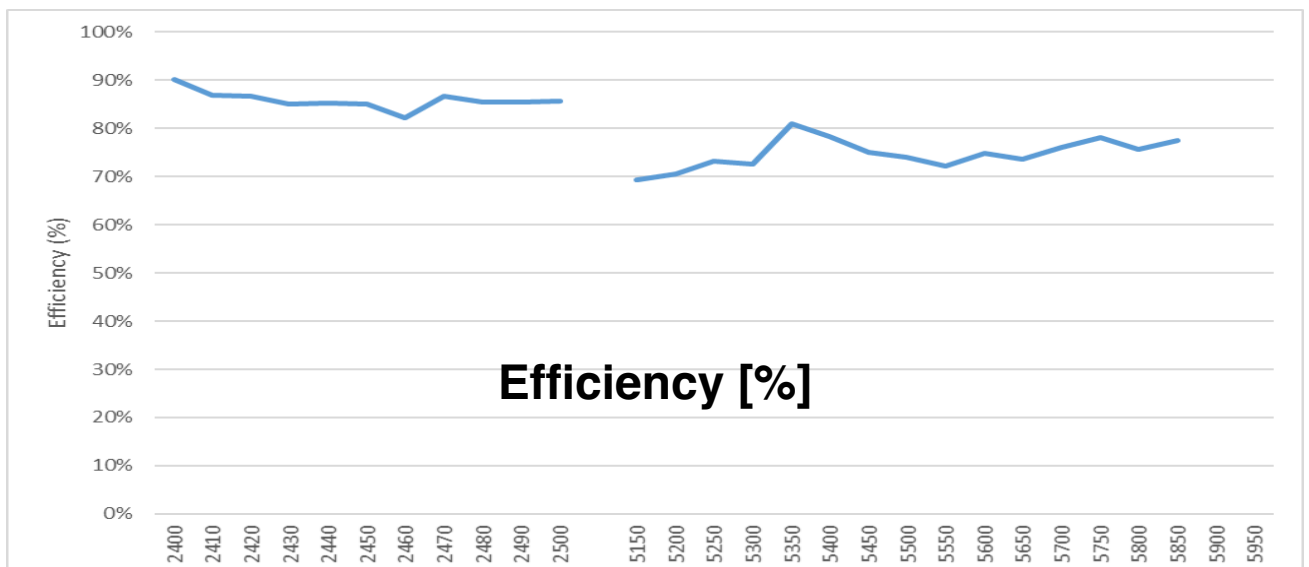


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Test setup, measurement performed in 3D Anechoic Chamber

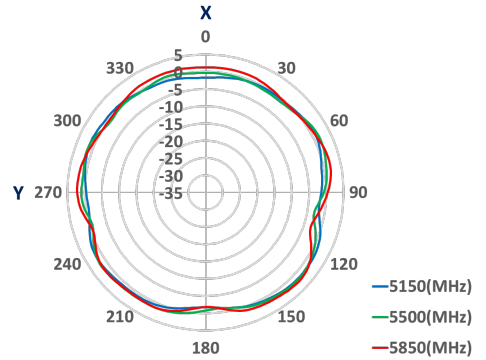
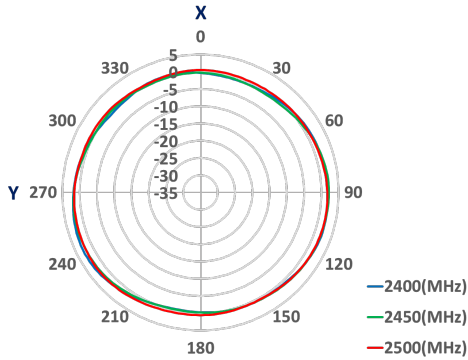


Blue background represents frequency response.

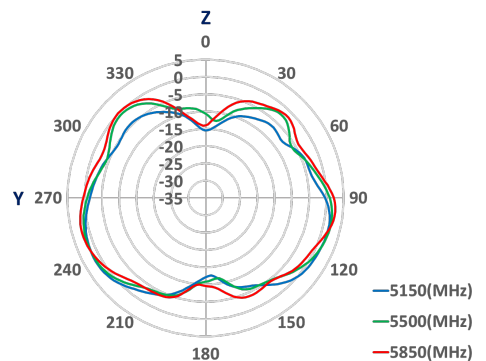
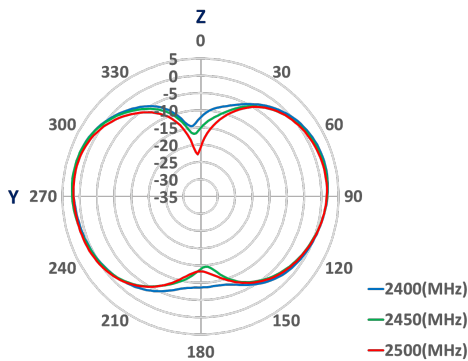


Radiation Pattern - Free Space

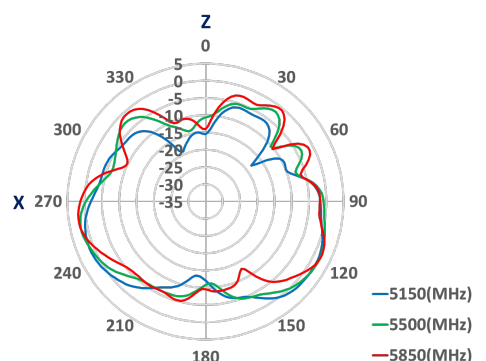
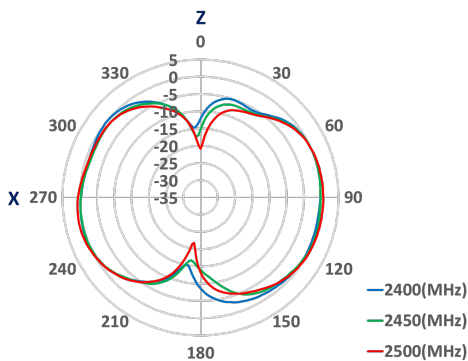
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev	Description	Date	ECN	Approval
A	Initial Release	2022-10-25	ST0226-30-X02-A-RA00	ATC
B	RF Performance update	2023-01-02	ST0226-30-X02-A-RB00	ATC

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