

Datasheet

2.4-2.5GHz

External / Indoor



Stick Antenna

Features:

High gain and high performance of Wi-Fi antenna with RP-SMA 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
Return Loss (dB)	< -10
Peak Gain (dBi)	7.5
Average Gain (dB)	-1.4
Efficiency (%)	73

Mechanical Specifications

Mechanical

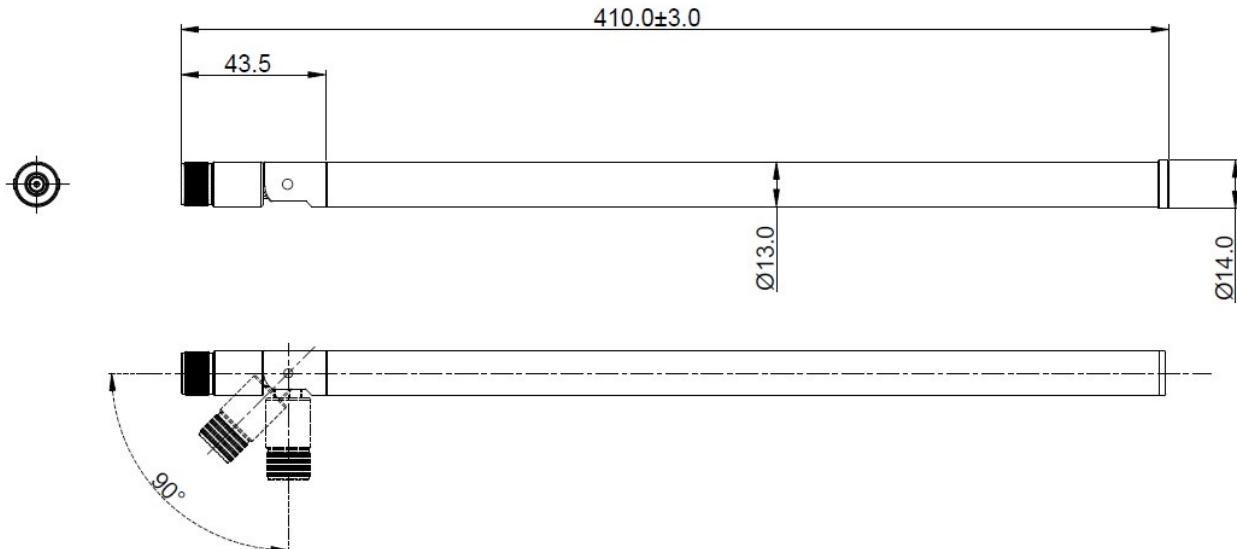
Dimension (mm)	410.0
Connector Type	RP-SMA (Plug)
Material	Fiberglass
Weight (g)	71.4

Environmental

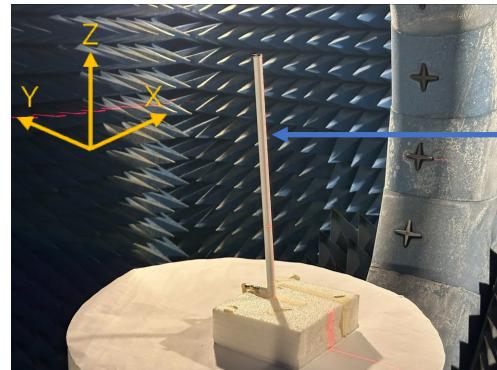
Temperature Range (°C)	-40 to 65
Humidity	Non-condensing 80°C 90% RH
RoHS Compliant	

Mechanical Drawing

Unit : mm

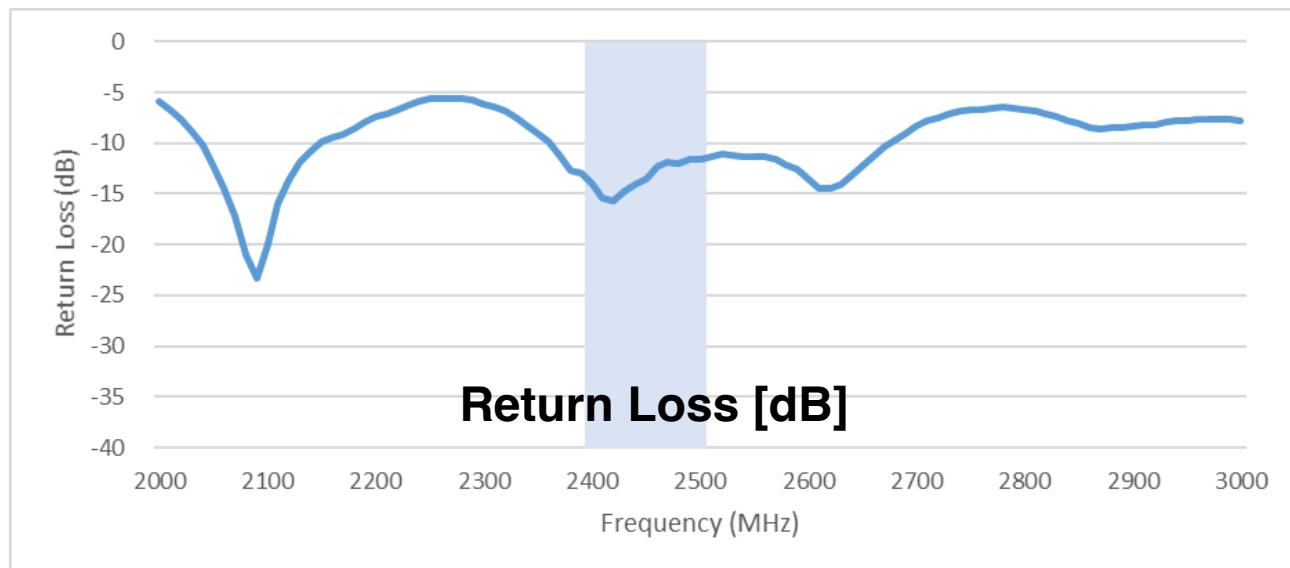


Charts In Free Space

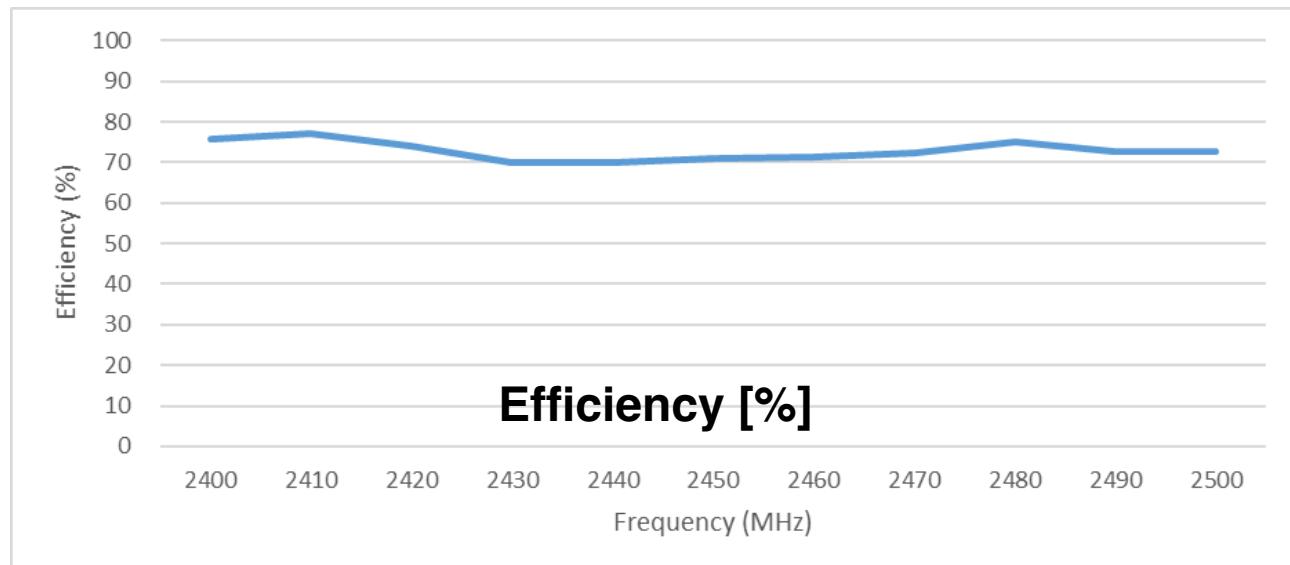


ST0228-40-501-B

Test setup, measurement performed in 3D anechoic chamber.

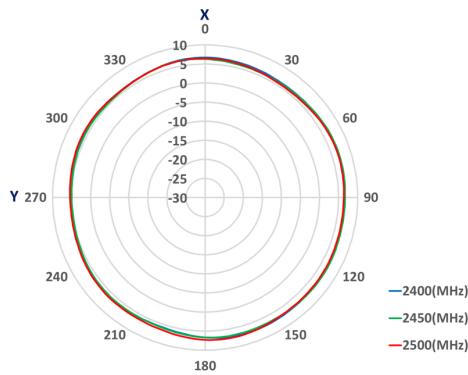


Blue background represents frequency response.

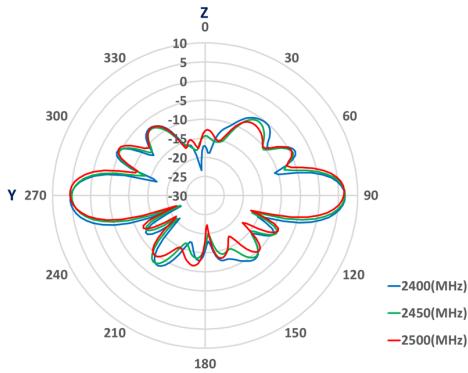


Radiation Pattern - Free Space

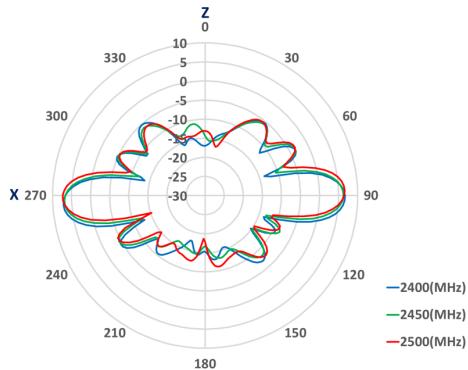
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-12-11	ST0228-40-501-B-RA00	ATC

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