

Datasheet

2.4-2.5GHz & 5.15-5.85GHz

External / Indoor



Stick Antenna

Features:

High gain and high performance of Wi-Fi 6 antenna with RP-SMA connector for indoor applications.

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)	< -10	< -10
Peak Gain (dBi)	6.4	6.7
Average Gain (dB)	-1.5	-1.9
Efficiency (%)	71	64

Mechanical Specifications

Mechanical

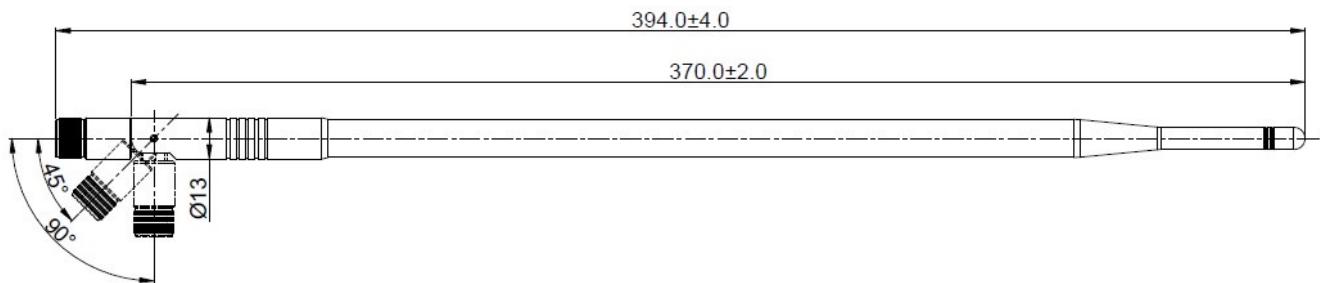
Dimension (mm)	394.0
Connector Type	RP-SMA (Plug)
Material	ABS
Weight (g)	55.7

Environmental

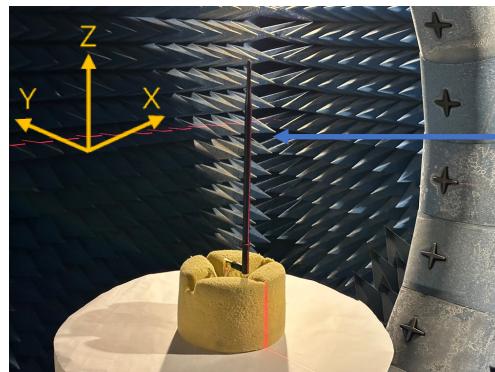
Temperature Range (°C)	-40 to 65
Humidity	Non-condensing 70°C 90% RH
RoHS Compliant	

Mechanical Drawing

Unit : mm



Charts In Free Space

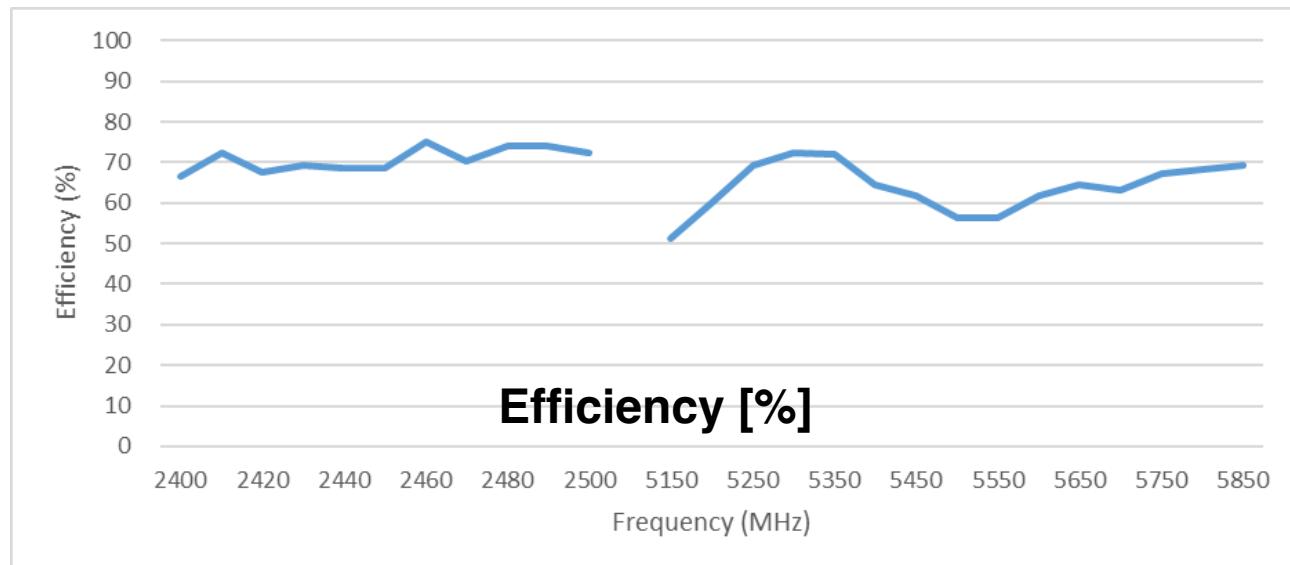


ST0228-40-501-A

Test setup, measurement performed in 3D anechoic chamber.

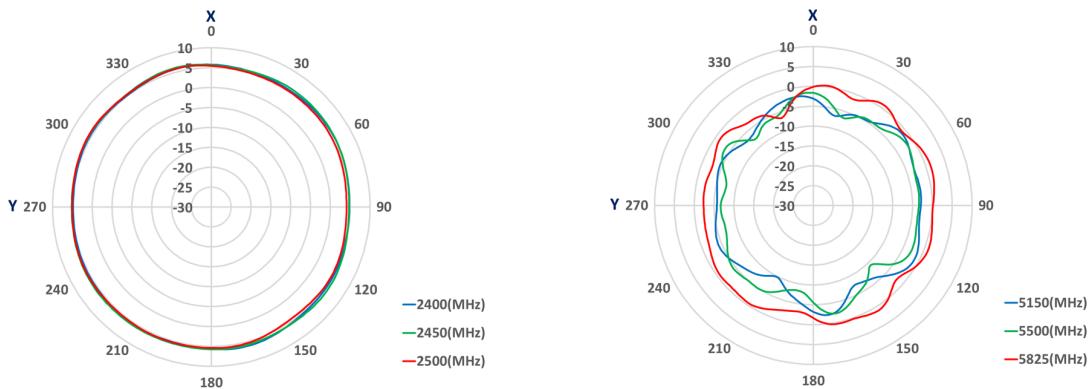


Blue background represents frequency response.

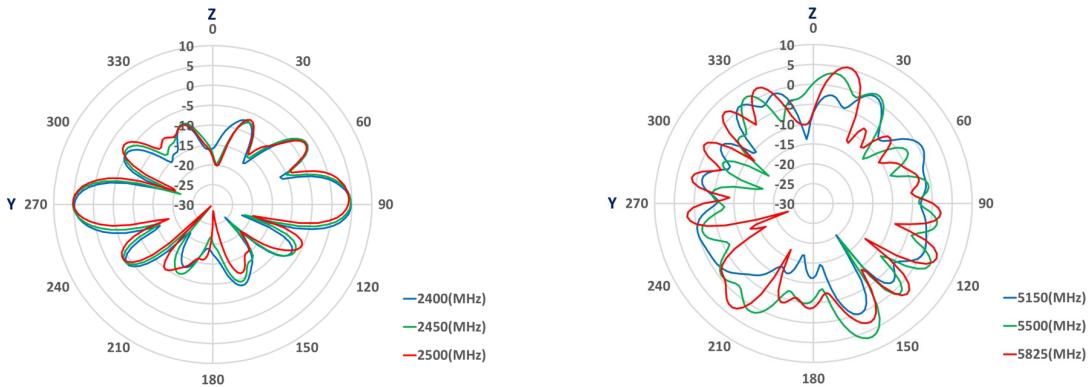


Radiation Pattern - Free Space

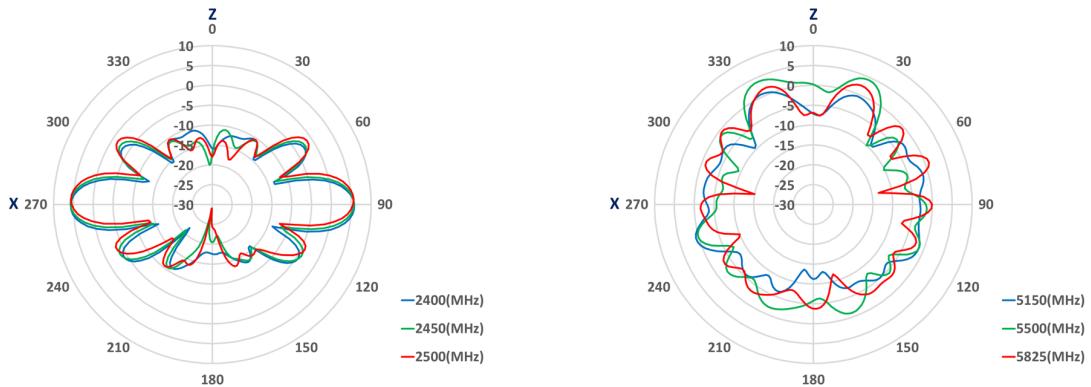
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-09-11	ST0228-40-501-A-RA00	ATC

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