

Datasheet

2.4-2.5GHz & 5.15-5.85GHz External



Stick Antenna

Features:

High performing waterproof Wi-Fi 6 antenna with SMA Plug connector.

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)	2.4	3.7
Average Gain (dB)	-1.9	-0.9
Efficiency (%)	64	82

Mechanical Specifications

Mechanical

Dimension (mm)	133.0
Connector Type	SMA (Plug)
Material	TPEE
Weight (g)	11.1

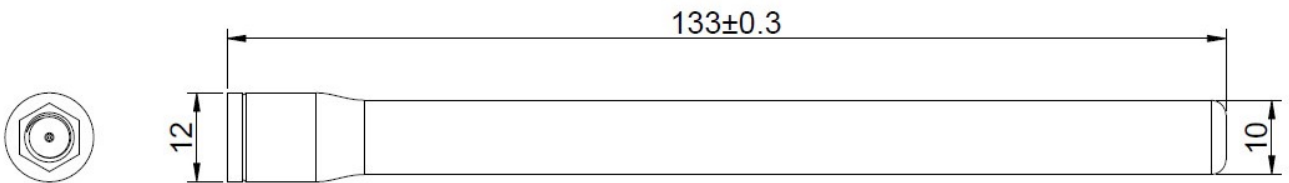
Environmental

Temperature Range (°C)	-20 to 65
Humidity	Non-condensing 65°C 95% RH

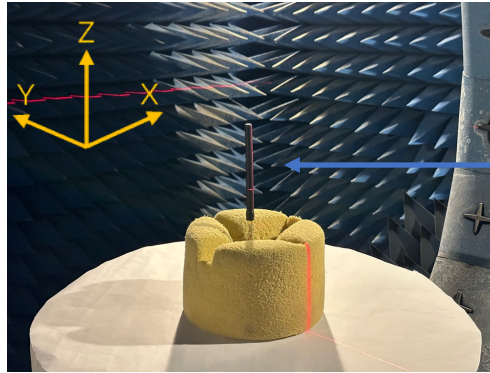
RoHS Compliant

Mechanical Drawing

Unit : mm

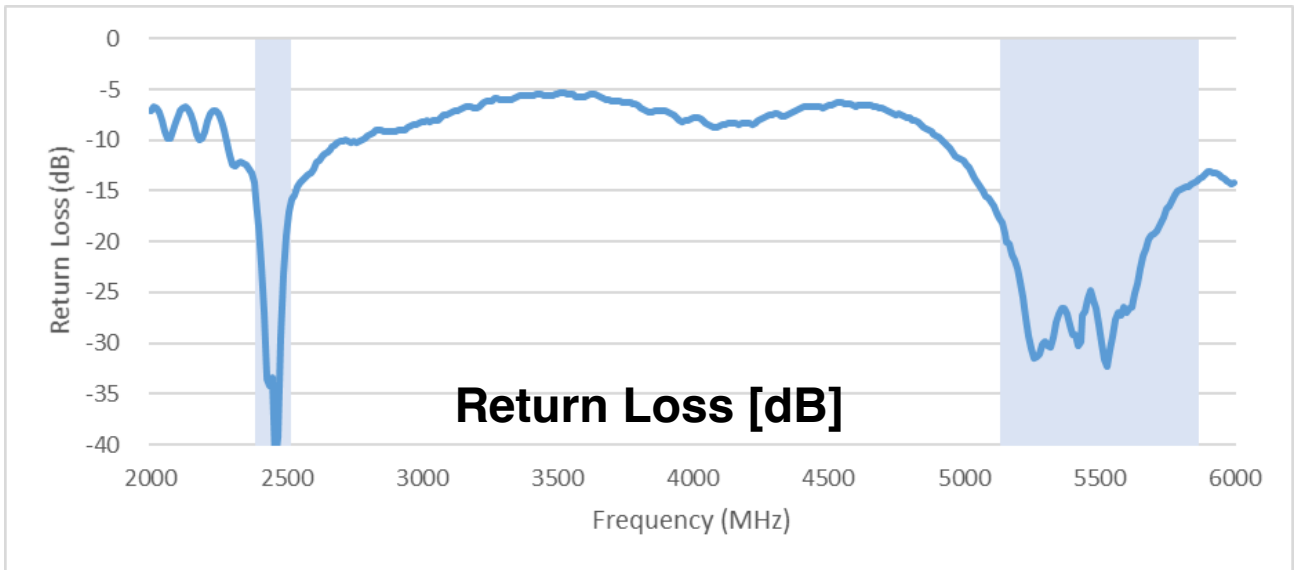


Charts In Free Space

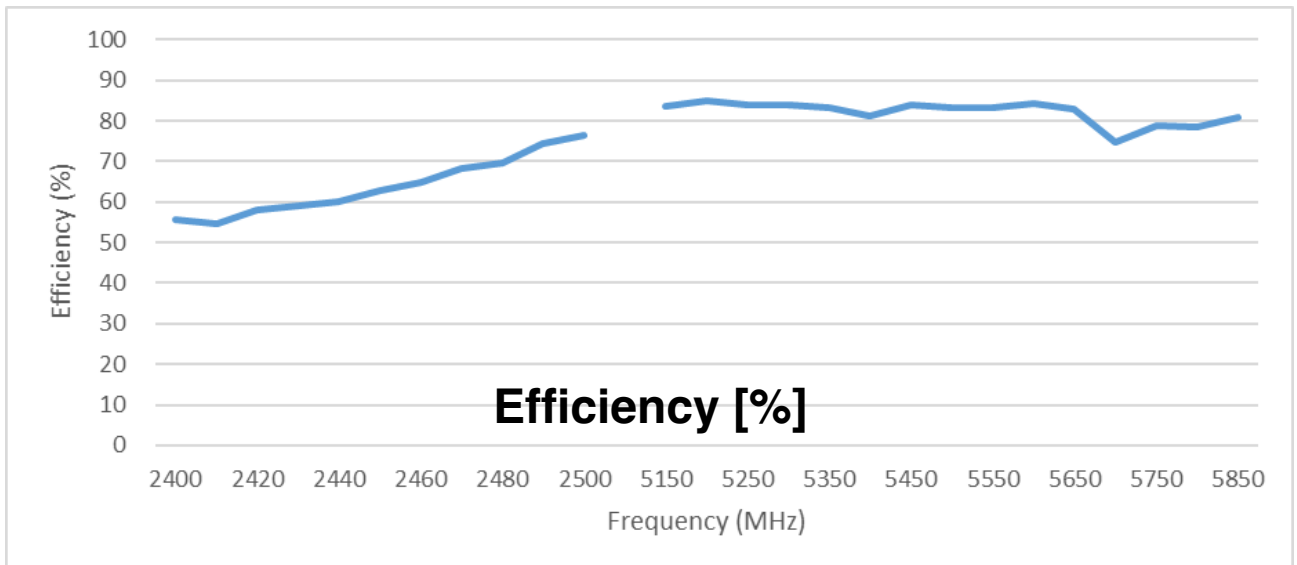


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Test setup, measurement performed in 3D anechoic chamber.

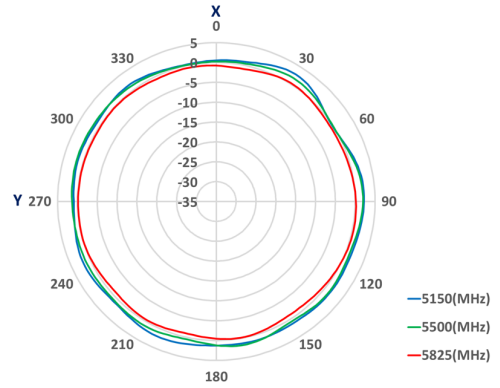
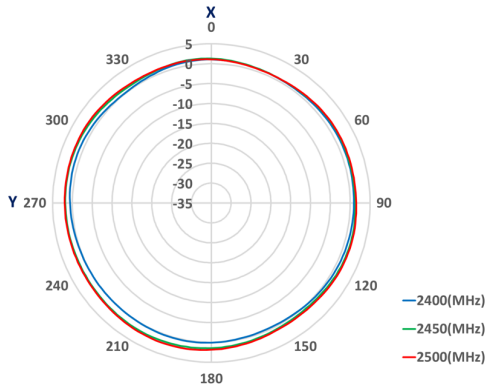


Blue background represents frequency response.

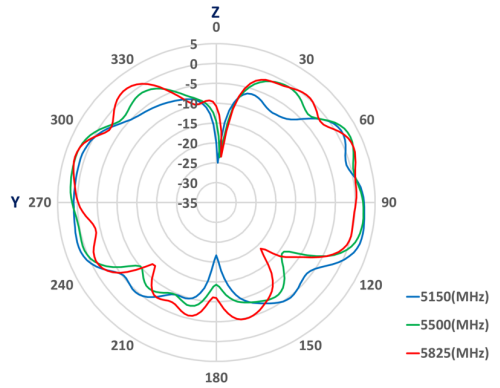
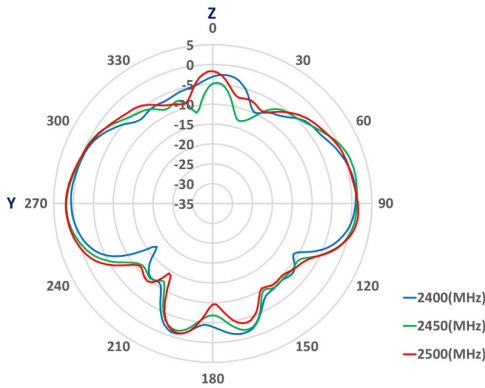


Radiation Pattern - Free Space

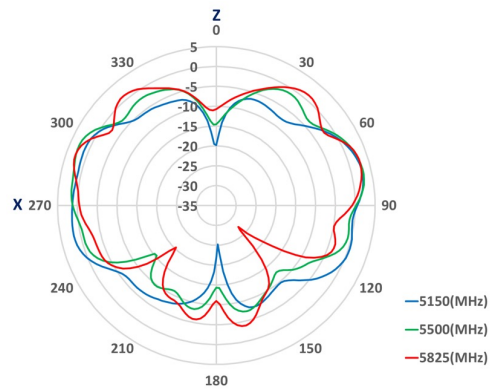
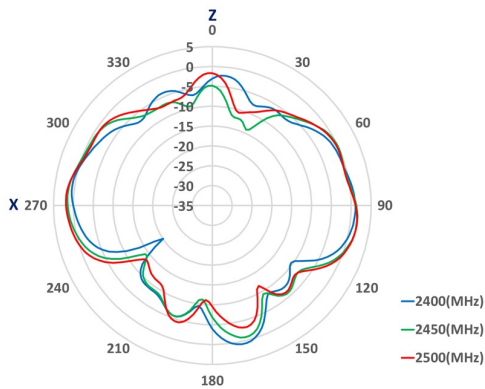
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-09-07	ST0226-30-003-A-RA00	ATC

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