

Datasheet

2.4-2.5GHz & 5.15-5.82GHz

External / Indoor

Features:

High gain and high performance of Wi-Fi 6 antenna with RP-SMA connector for indoor applications and IP66 grade certified.

Applications:

CPE – Router, Set-top boxes, Gateway IoT devices
Wi-Fi 6 Mesh
Smart Metering
Robotics



Stick Antenna



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	< -9
Peak Gain (dBi)	3.7	4.5
Average Gain (dB)	-1.8	-2.3
Efficiency (%)	66	59

Mechanical Specifications

Mechanical

Dimension (mm)	280.0
Connector Type	RP-SMA (Plug)
Material	ABS
Weight (g)	40.7

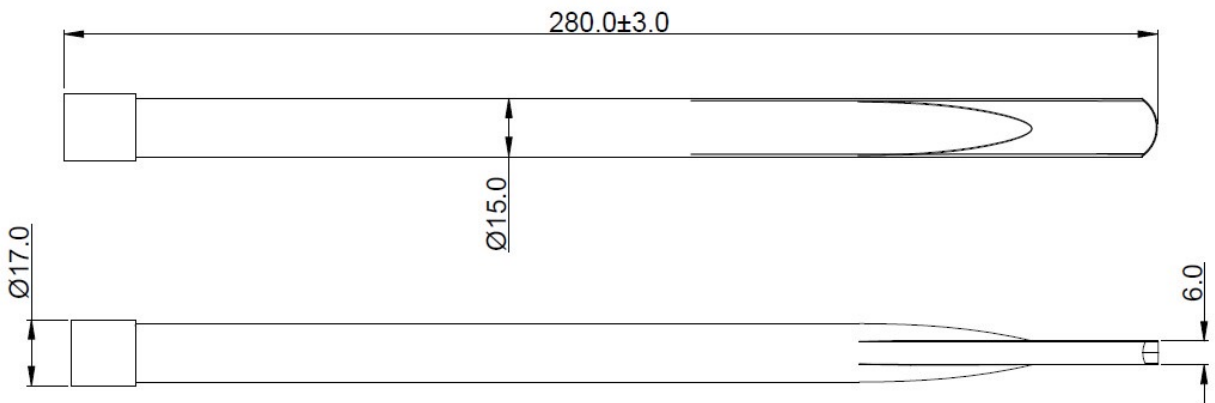
Environmental

Temperature Range (°C)	-40 to 70
IP Rating	IP66

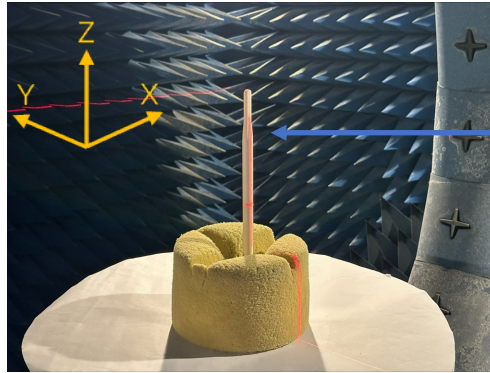
RoHS Compliant

Mechanical Drawing

Unit : mm

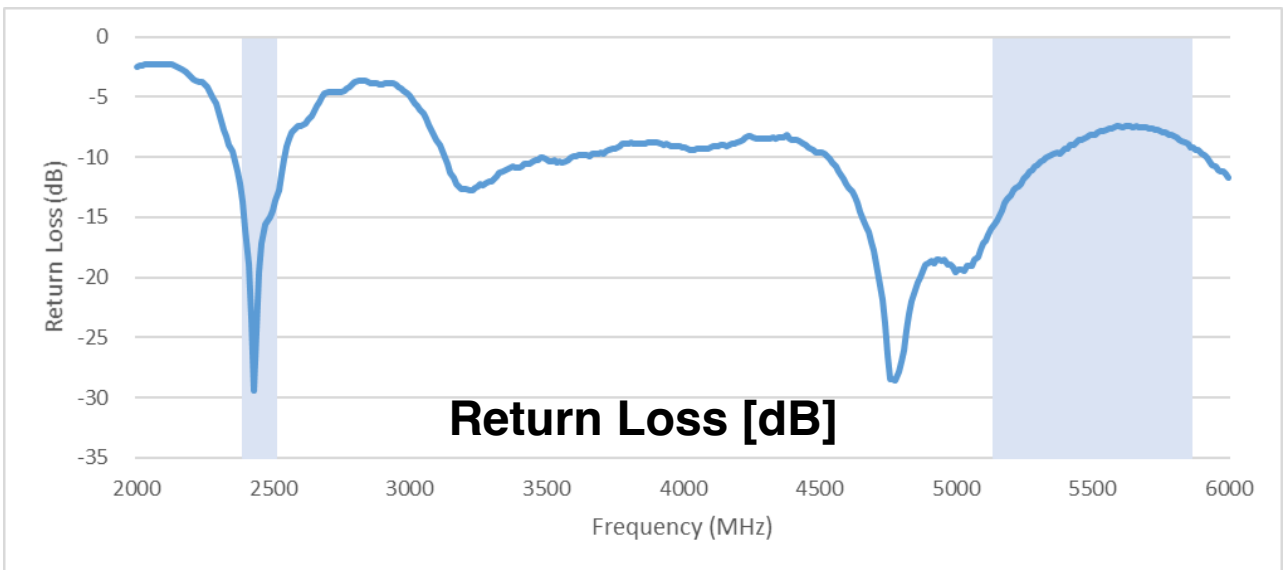


Charts In Free Space

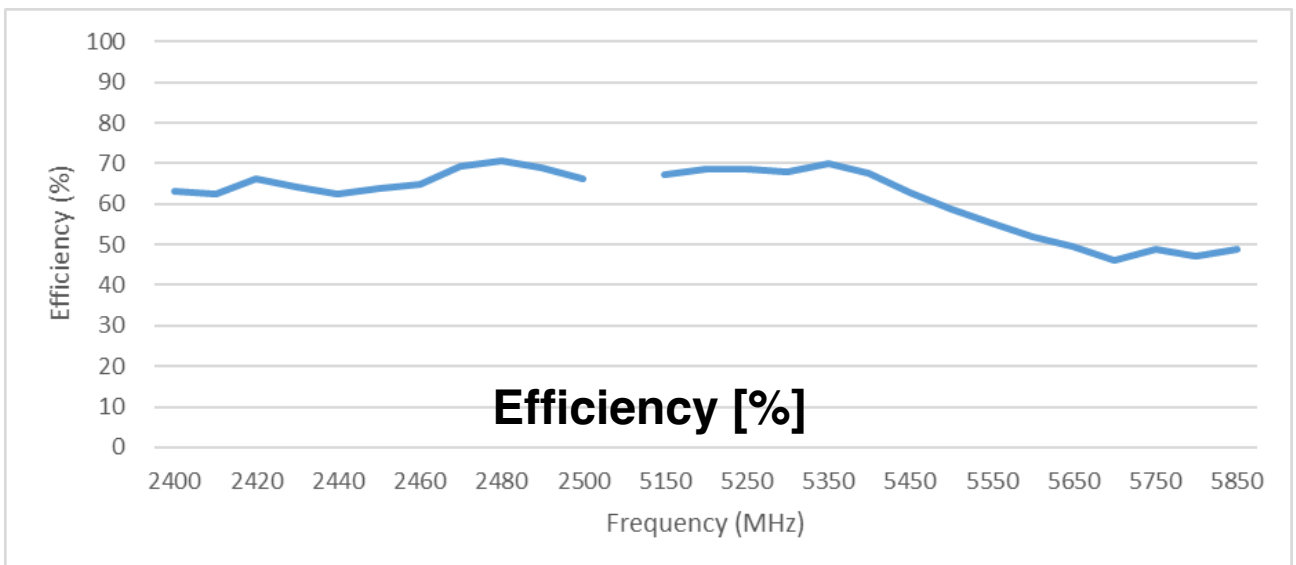


ST0226-40-502-B

Test setup, measurement performed in 3D anechoic chamber.

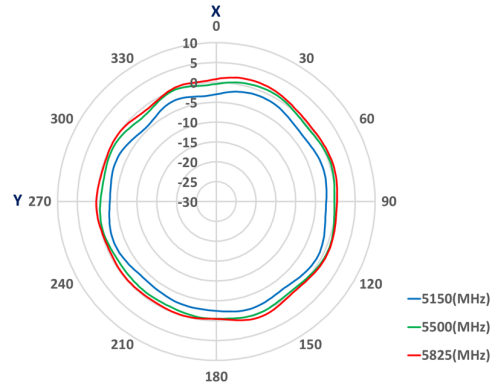
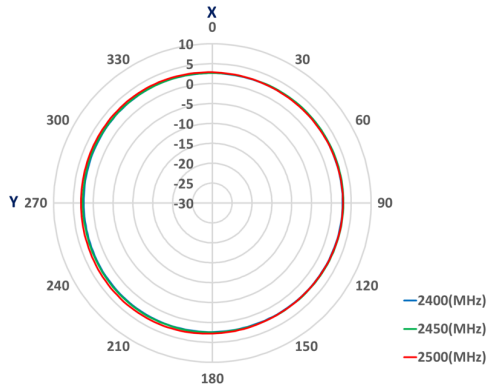


Blue background represents frequency response.

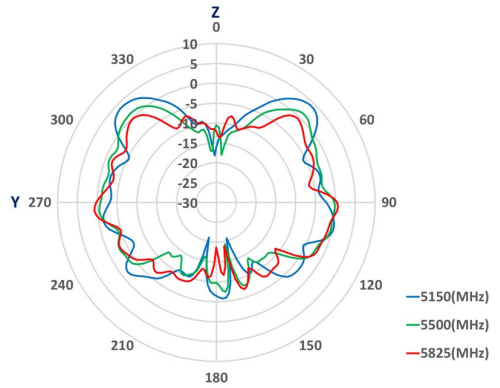
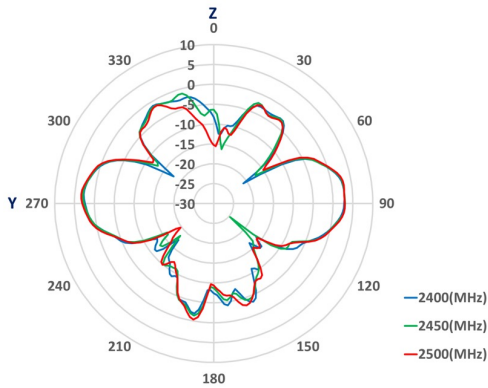


Radiation Pattern - Free Space

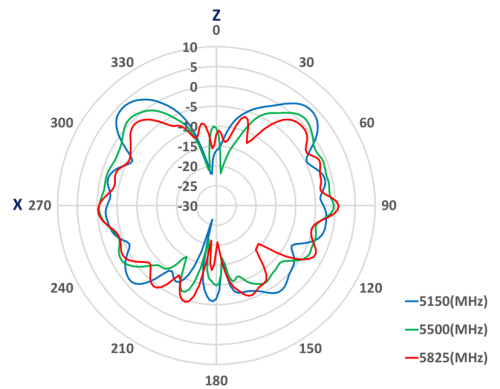
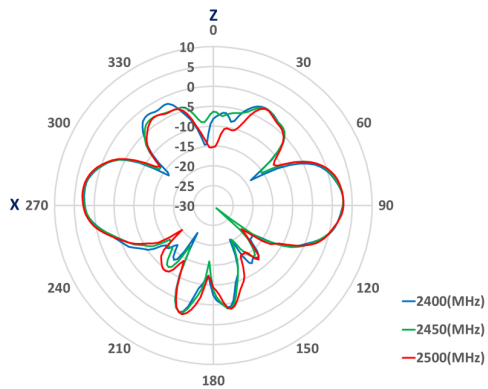
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-12-11	ST0226-40-502-B-RA00	ATC

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