

Datasheet

2.4-2.5GHz & 5.15-7.2GHz

External / Indoor



Stick Antenna

Features:

High performing Wi-Fi 6E/7 antenna with RP-SMA connector for indoor applications. The Magnetic mount features ABS, stable plastic, resistant to most weather conditions.

Applications:

- CPE – Router, Set-top boxes, Gateway
- IoT devices
- Wi-Fi 6E/7 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	5.925~7.125
Return Loss (dB)	< -9.5	< -9.5	< -9.5
Peak Gain (dBi)	2.2	1.5	0.9
Average Gain (dB)	-2.9	-4.4	-4.3
Efficiency (%)	51	36	37

Mechanical Specifications

Mechanical

Dimension (mm)	Ø60.0 × 162.0
Connector Type	RP-SMA (Plug)
Cable Type	RG-174
Mouting	Magnetic mount
Material	ABS
Weight (g)	102.0

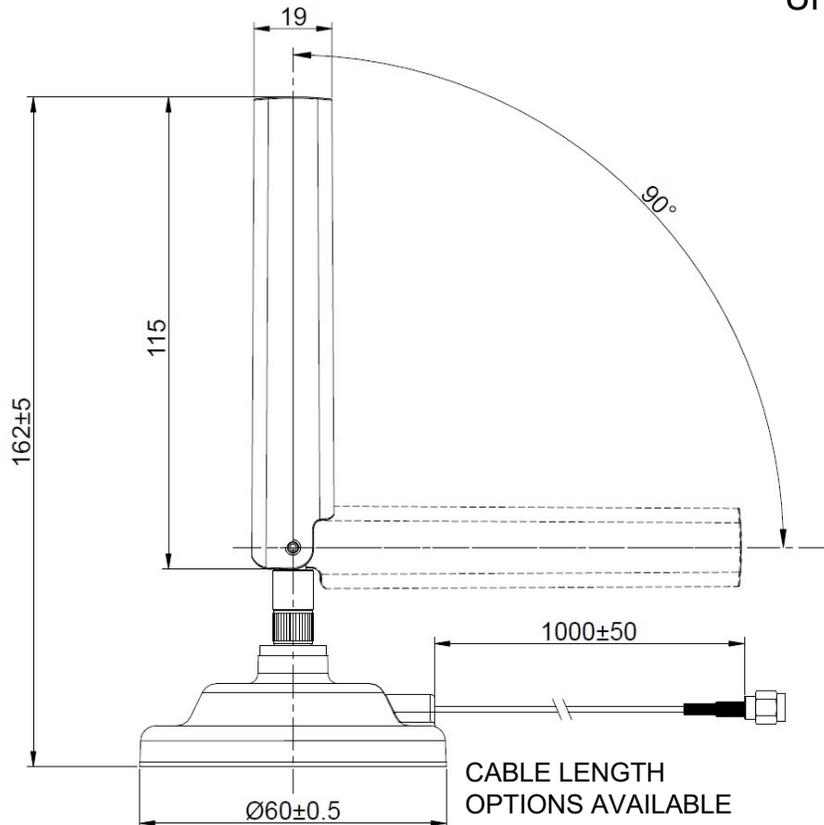
Environmental

Temperature Range (°C)	-40 to 80
Humidity	Non-condensing 65°C 95% RH

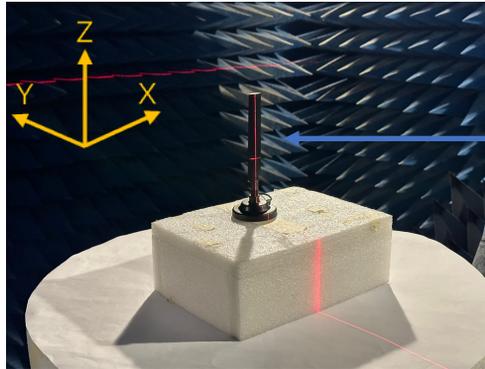
RoHS Compliant

Mechanical Drawing

Unit : mm

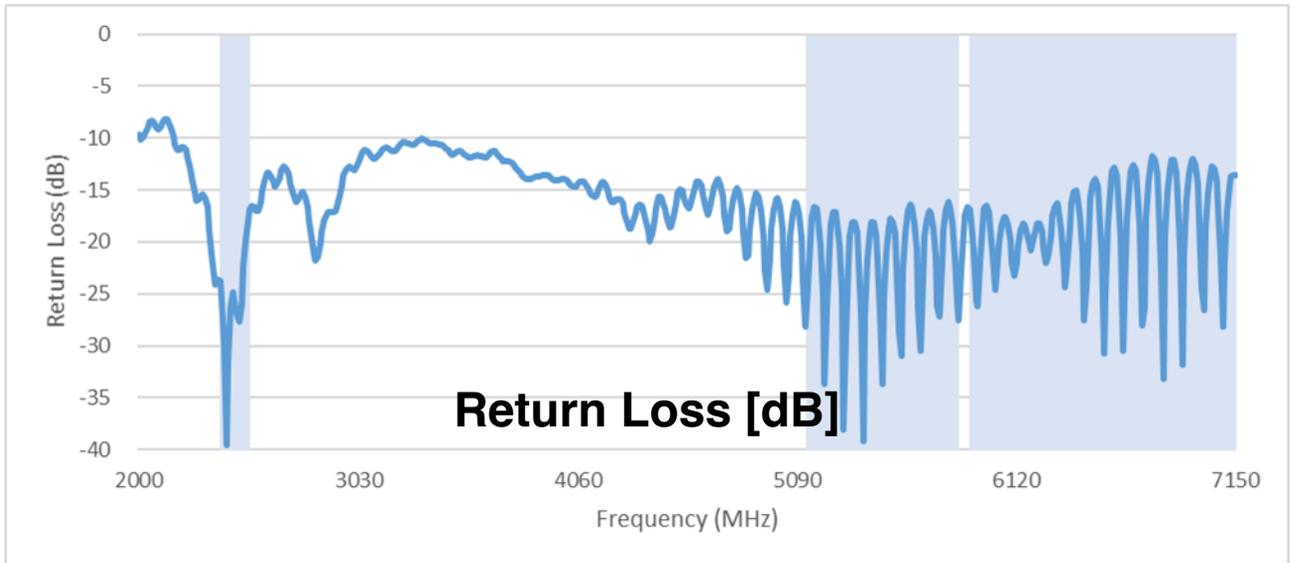


Charts In Free Space

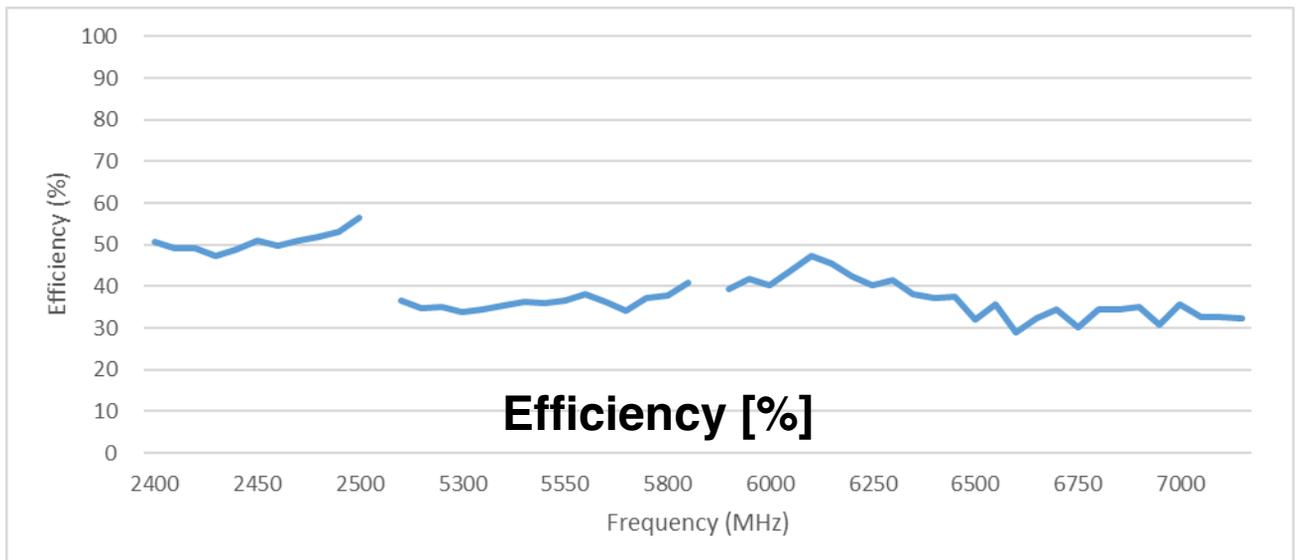


ST1256-32-501-A

Test setup, measurement performed in 3D anechoic chamber.

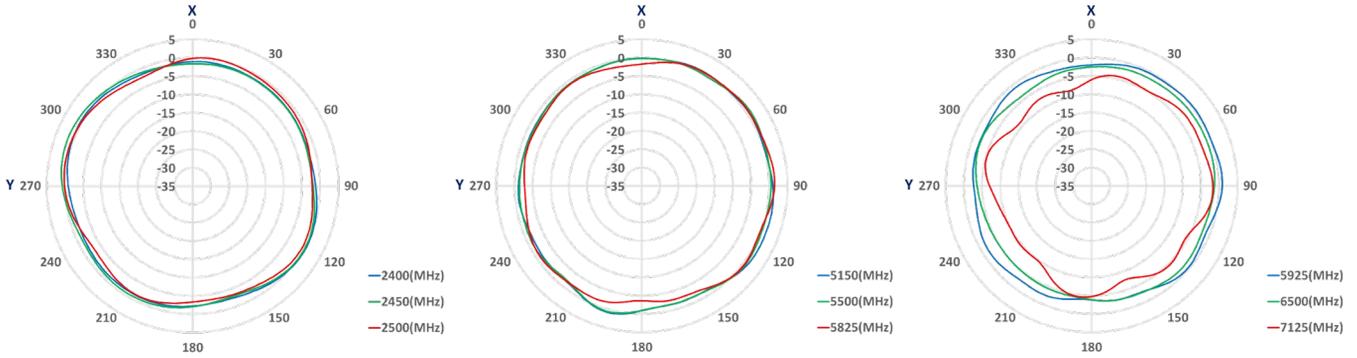


Blue background represents frequency response.

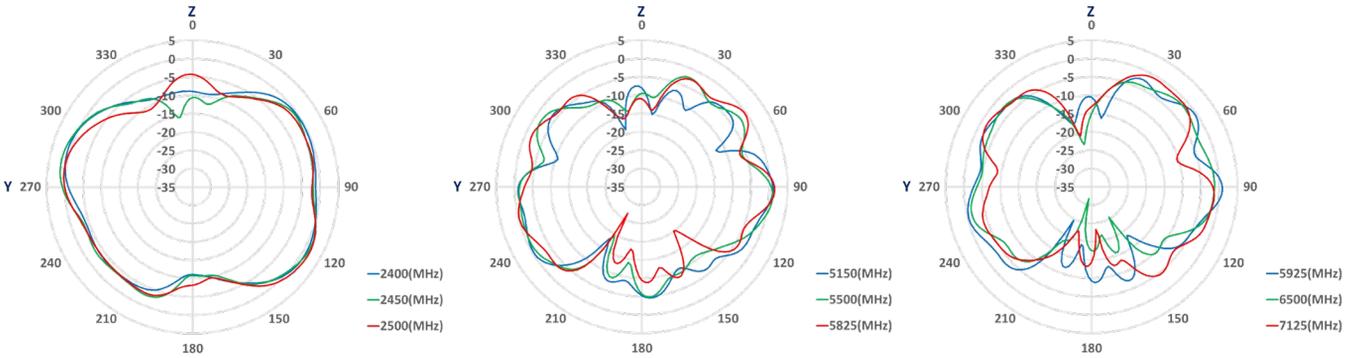


Radiation Pattern - Free Space

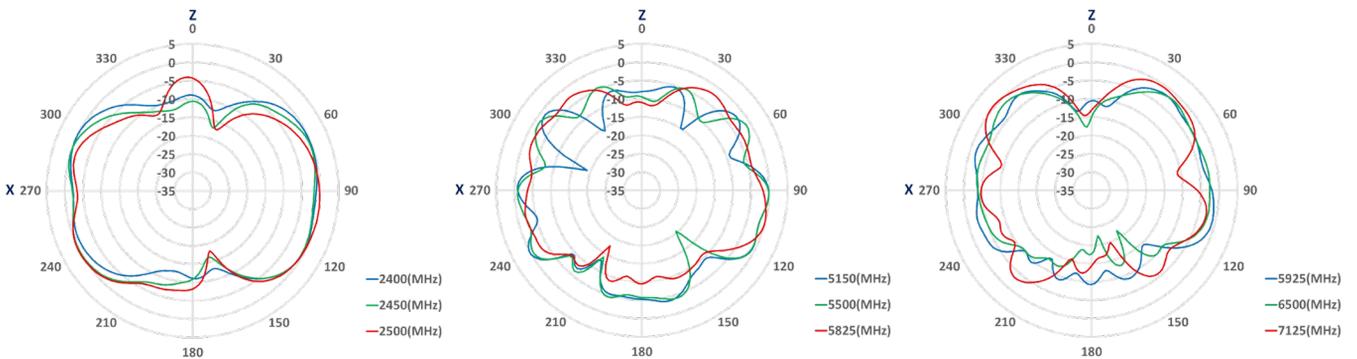
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-06-14	ST1256-32-501-A-RA00	ATC

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