

Datasheet

2.4-2.5GHz & 5.15-7.2GHz

External / Indoor

Features:

High performing Wi-Fi 6/6E antenna with SMA connector for indoor applications.

Applications:

- CPE – Router, Set-top boxes, Gateway
- IoT devices
- Wi-Fi 6E 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	5.925~7.125
Return Loss (dB)	< -10	< -10	< -10
Peak Gain (dBi)	2.4	3.5	2.5
Average Gain (dB)	-1.2	-2.4	-3.2
Efficiency (%)	75	57	48

Mechanical Specifications

Mechanical

Dimension (mm)	172.5
Connector Type	SMA (Plug)
Material	ABS
Weight (g)	16.6

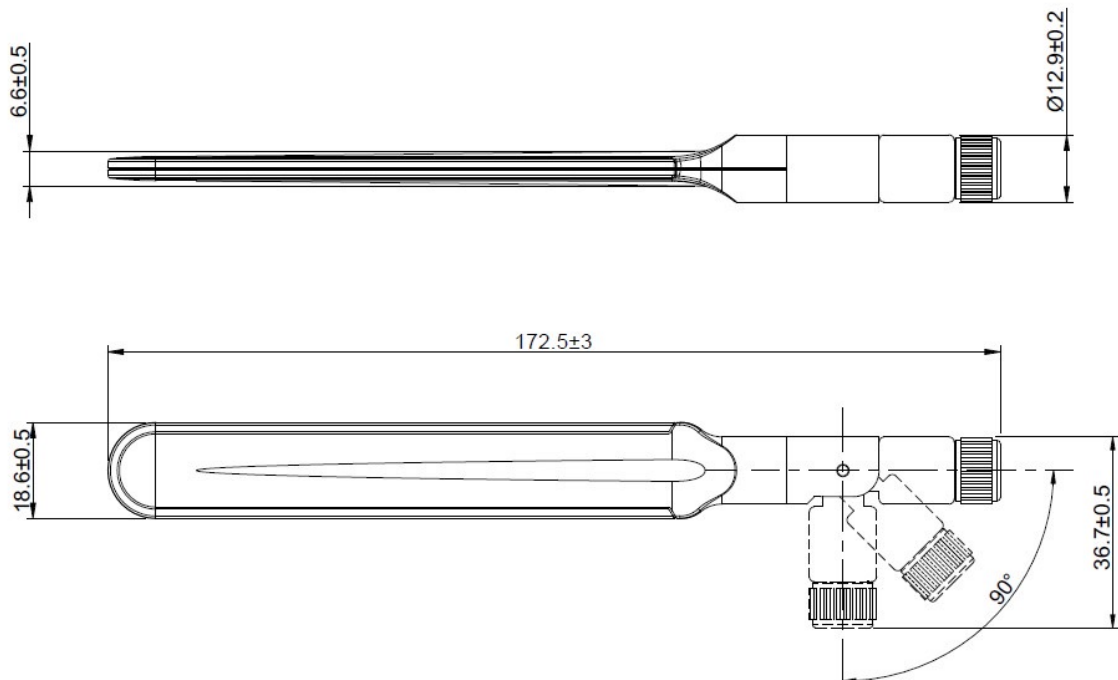
Environmental

Temperature Range (°C)	-30 to 75
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

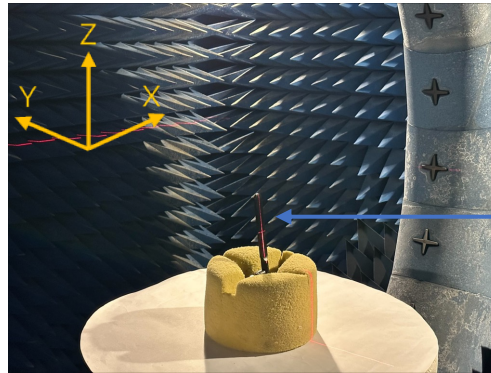
Mechanical Drawing

Unit : mm



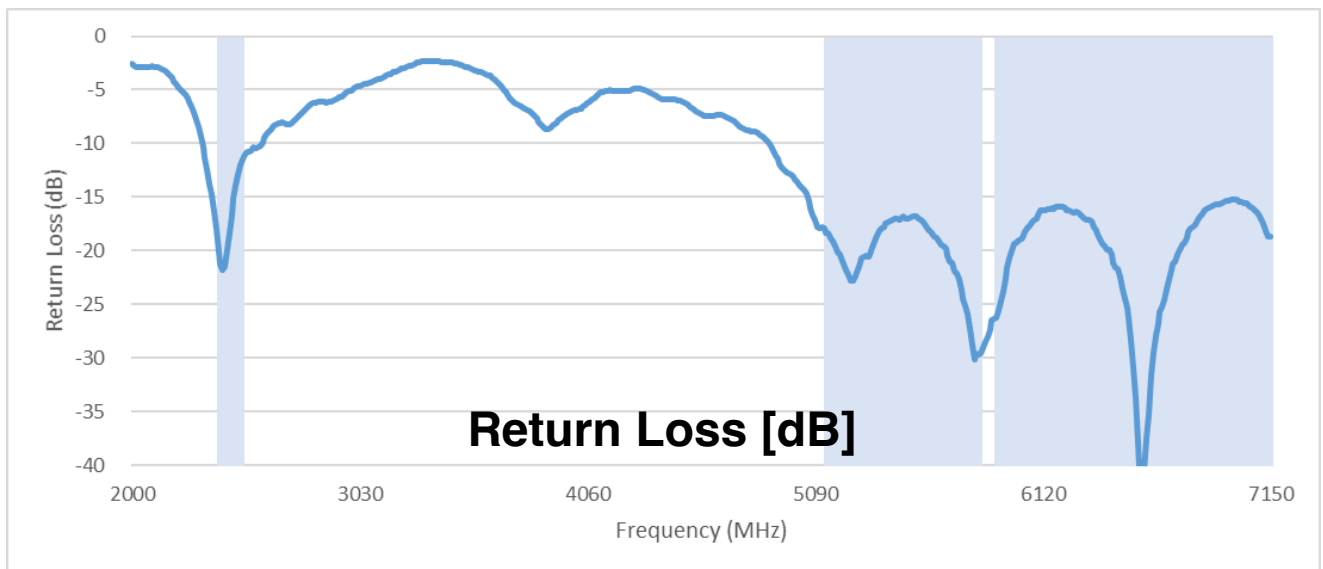
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Charts In Free Space

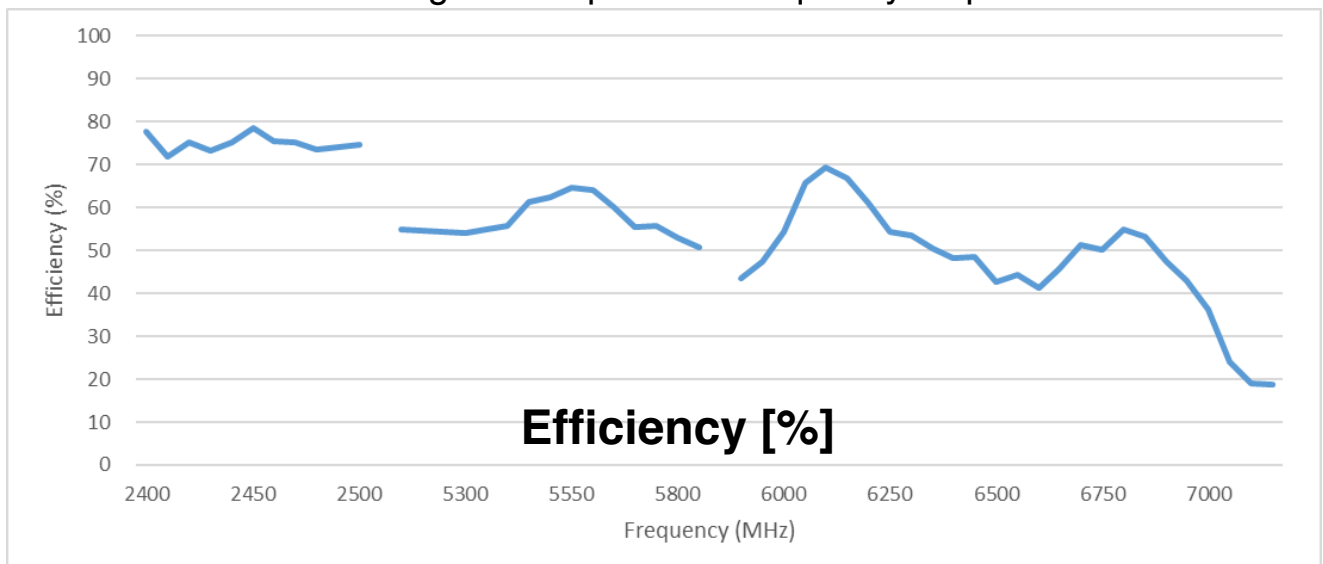


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Test setup, measurement performed in 3D anechoic chamber.

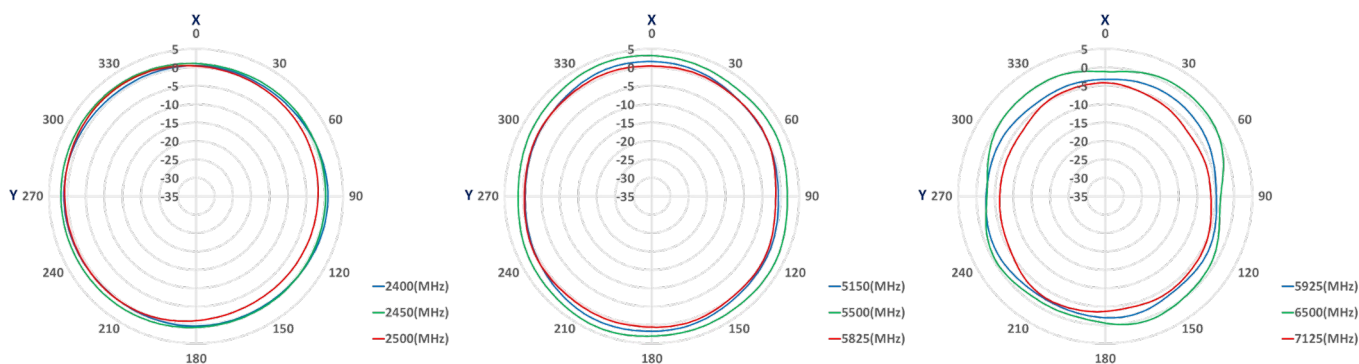


Blue background represents frequency response.

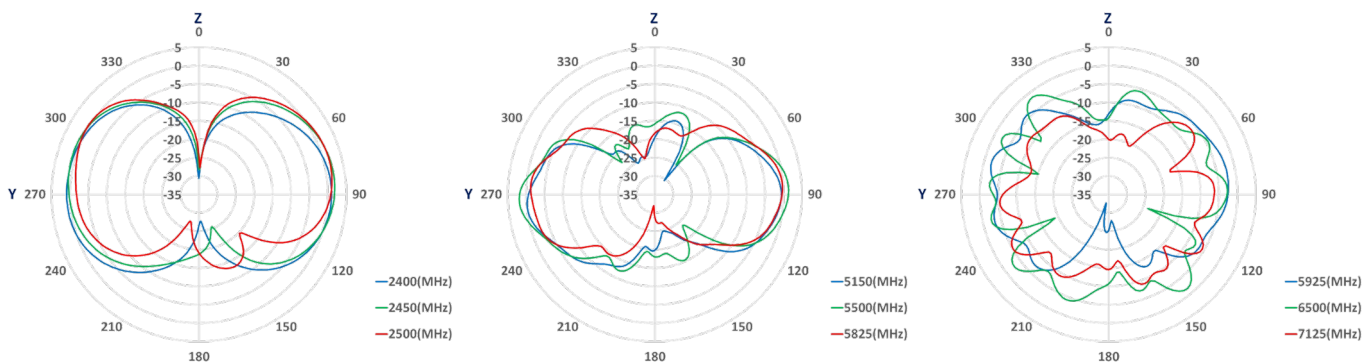


Radiation Pattern - Free Space

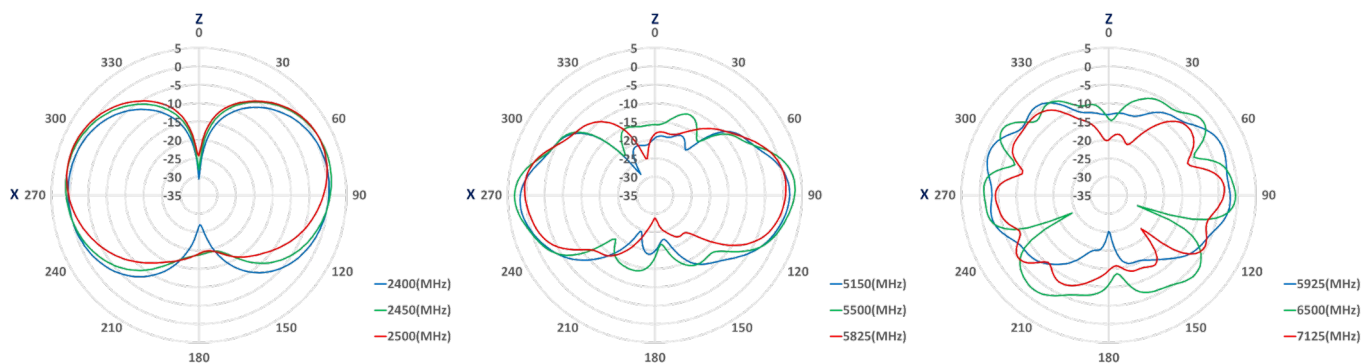
XY - Plane



YZ - Plane



XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-02-20	ST1228-30-001-A-RA00	ATC

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