

Datasheet

0.6-0.96GHz & 1.7-5.95GHz

External / In-building



Stick Antenna

Features:

High performing 5G FR1 antenna with 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
- Smart Metering
- Robotics
- Smart Home System

**Electrical Specifications****Antenna Characteristics**

Antenna Type	Radiation Pattern	Polarization	Max. Input Power	Impedance
Stick Antenna	Omni	Linear	1W	50Ω

Frequency (GHz)	0.617~0.96	1.71~2.17	2.3~269	3.3~5.0	5.15~5.925
Return Loss (dB)	< -6	< -9.5	< -9.5	< -7.4	< -7.4
Peak Gain (dBi)	2.2	2.4	2.8	0.8	0.9
Average Gain (dB)	-3.2	-3.1	-3.1	-4.0	-6.3
Efficiency (%)	47	50	50	40	23

Mechanical Specifications

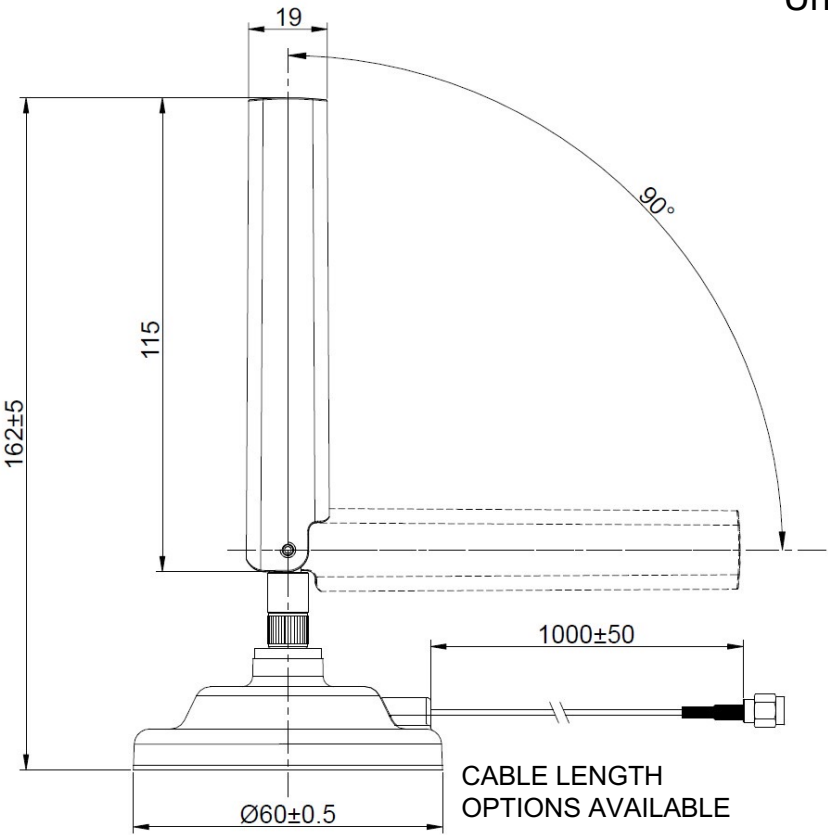
Mechanical	
Dimension (mm)	Ø60.0 × 162.0
Connector Type	SMA (Plug)
Cable Type	RG-174
Mouting	Magnetic mount
Material	ABS
Weight (g)	102.0

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

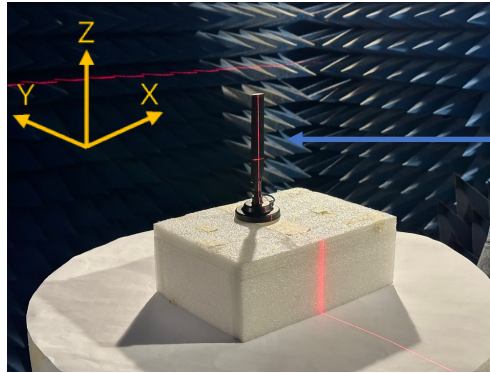
RoHS Compliant

Mechanical Drawing

Unit : mm

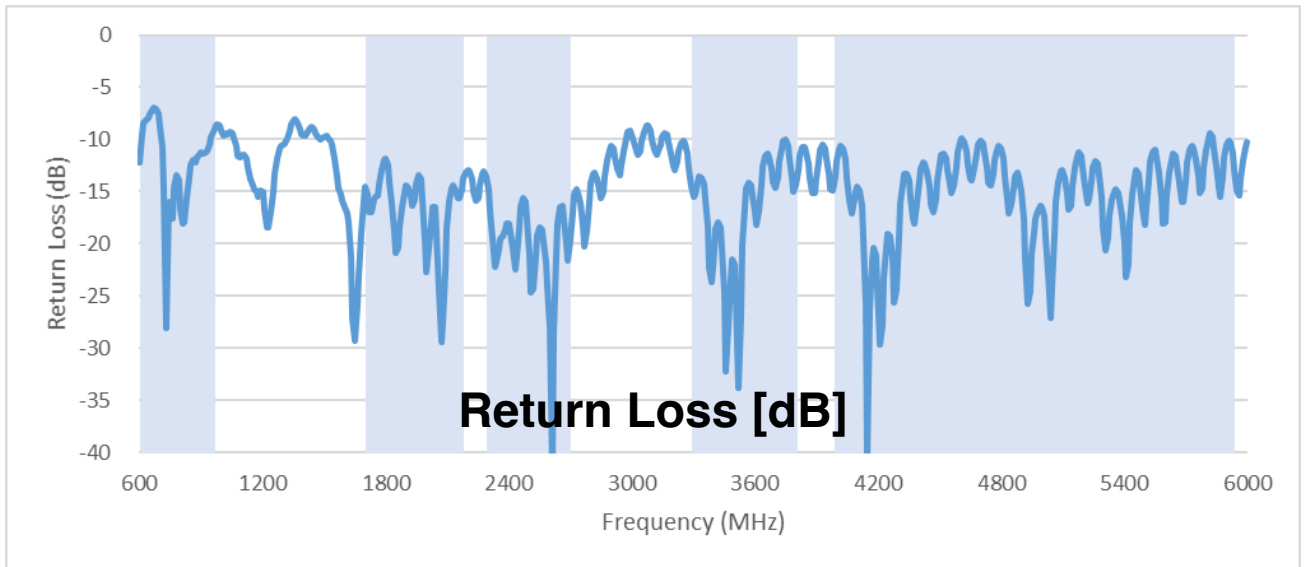


Charts In Free Space

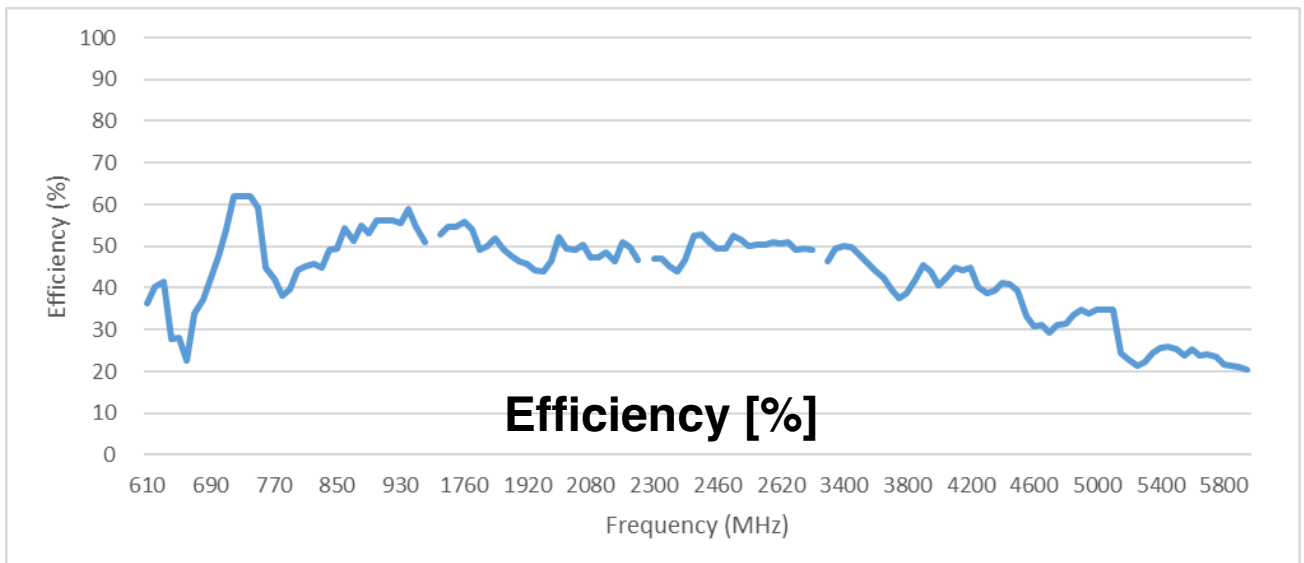


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Test setup, measurement performed in 3D anechoic chamber.

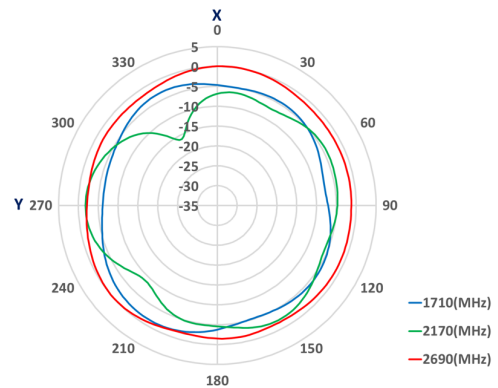
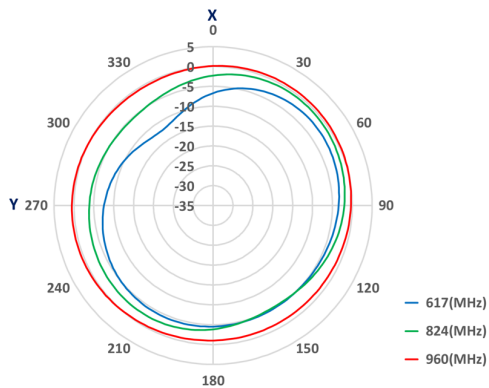


Blue background represents frequency response.

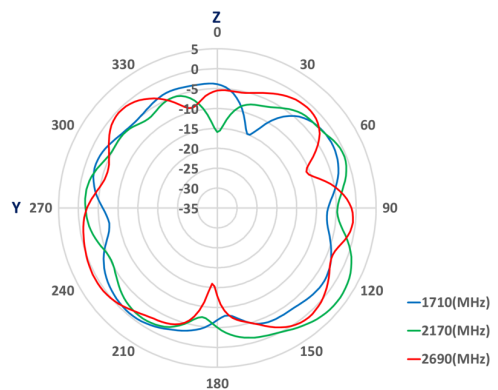
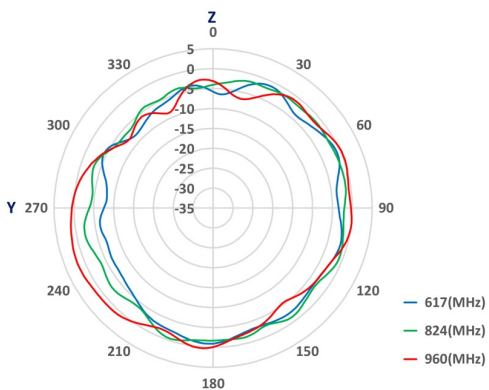


Radiation Pattern - Free Space

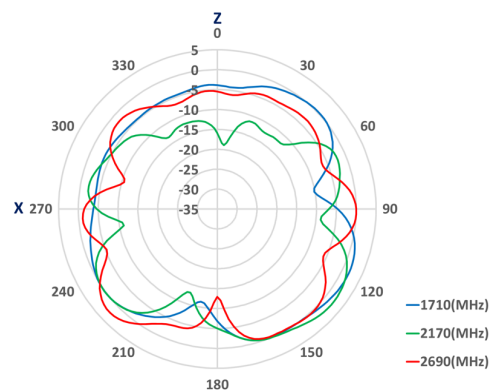
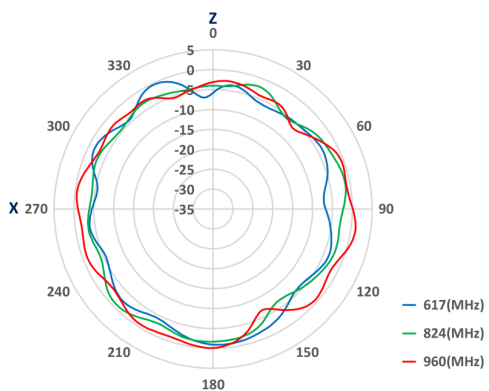
XY - Plane



YZ - Plane

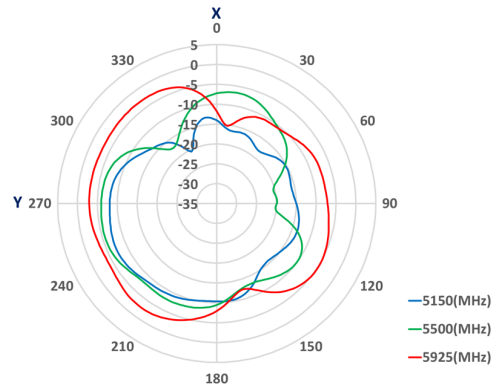
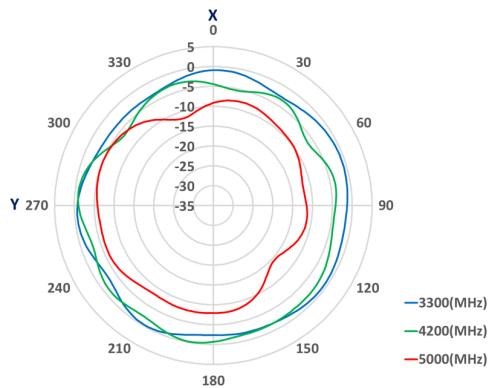


XZ - Plane

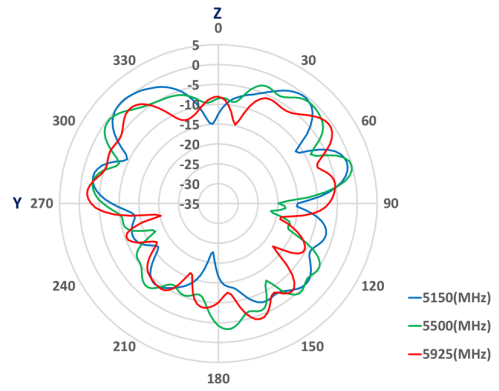
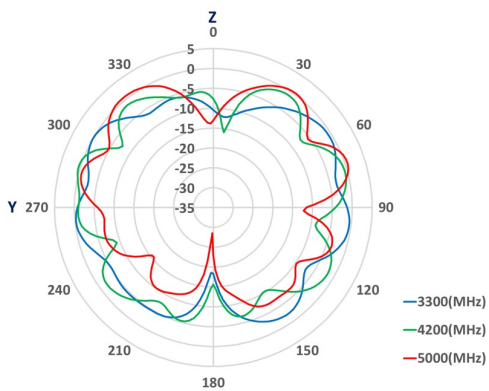


Radiation Pattern - Free Space

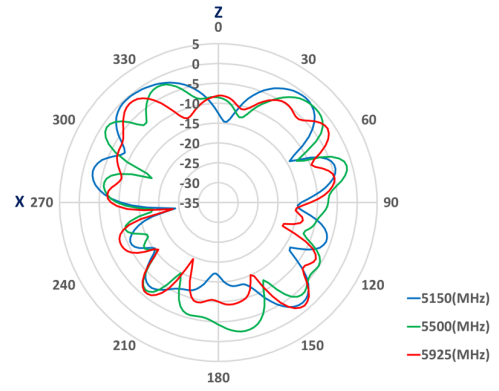
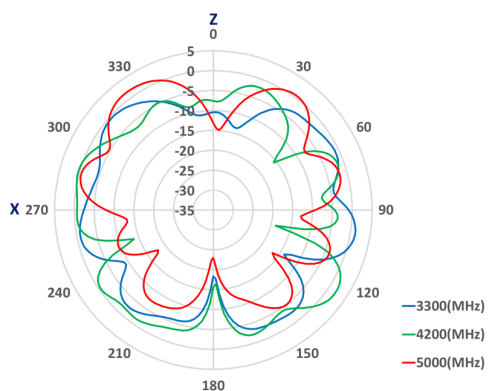
XY - Plane



YZ - Plane



XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-06-14	ST0456-32-001-A-RA00	ATC

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