

Datasheet

0.7-0.96/1.71-2.7/3.3-5GHz

External



Stick Antenna

Features:

This is high performing 5G full-band antenna covers 698-960MHz, 1700-2700MHz, 3300-5000MHz. with N-Type Connector and IP67 certified.

Applications:

CPE - Router, Set-top boxes & Gateway
IoT devices
5G FR1 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)	0.698~0.96	1.71~2.17	2.3~2.69	3.3~5.0
Return Loss (dB) @Φ220mm GND			< -6	
Peak Gain (dBi)	1.3	3.3	4.2	8.6
Average Gain (dB)	-1.4	-2.3	-1.8	-1.0
Efficiency (%)	72	59	65	80

Mechanical Specifications

Mechanical

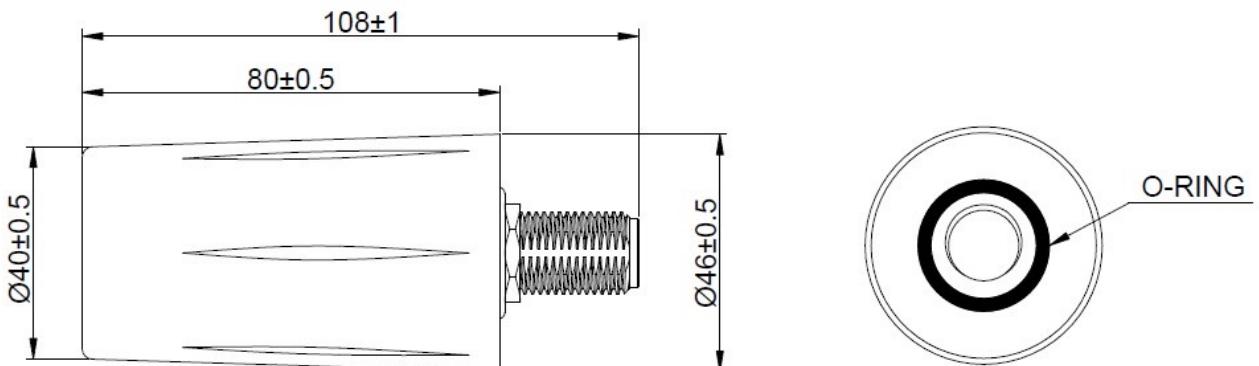
Dimension (mm)	$\varnothing 46.0 \times 108.0$
Connector Type	N-type (Jack)
Material	ABS
Weight (g)	92.4

Environmental

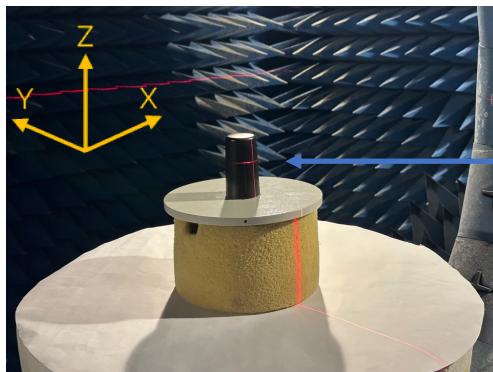
Temperature Range (°C)	-40 to 80
IP Rating	IP67
RoHS Compliant	

Mechanical Drawing

Unit : mm

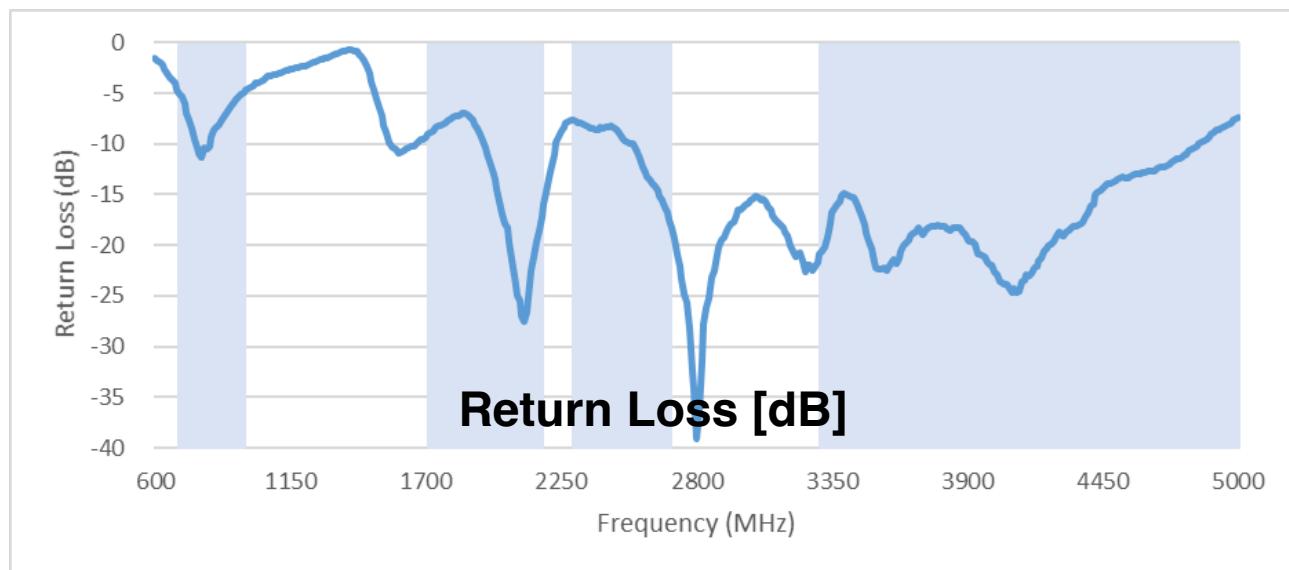


Charts In Free Space

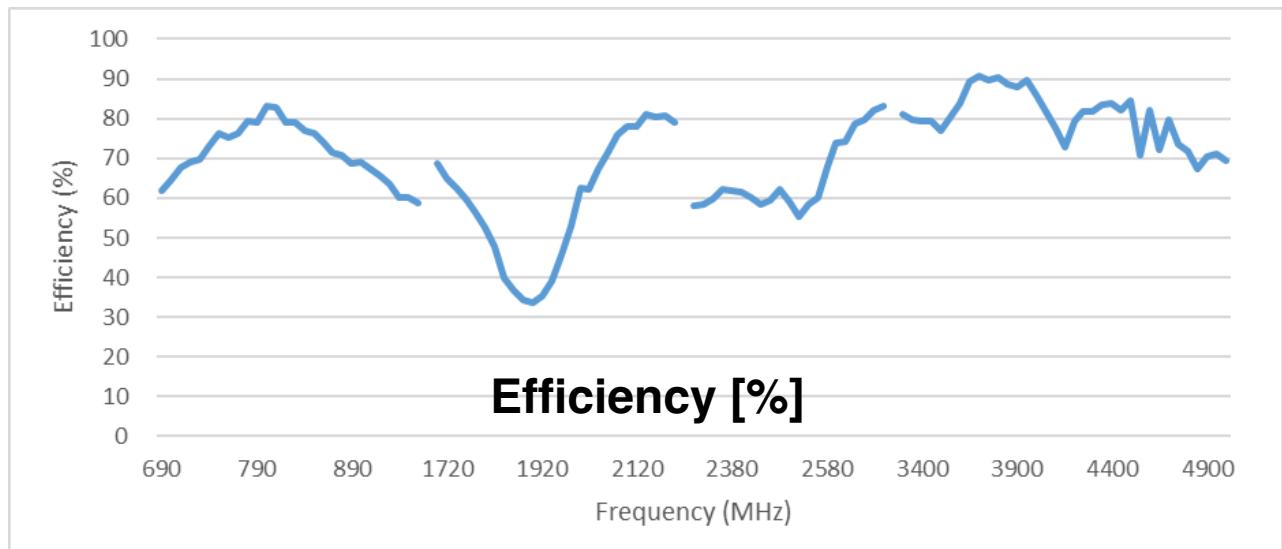


ST0449-21-201-A

Test setup, measurement performed in 3D anechoic chamber.

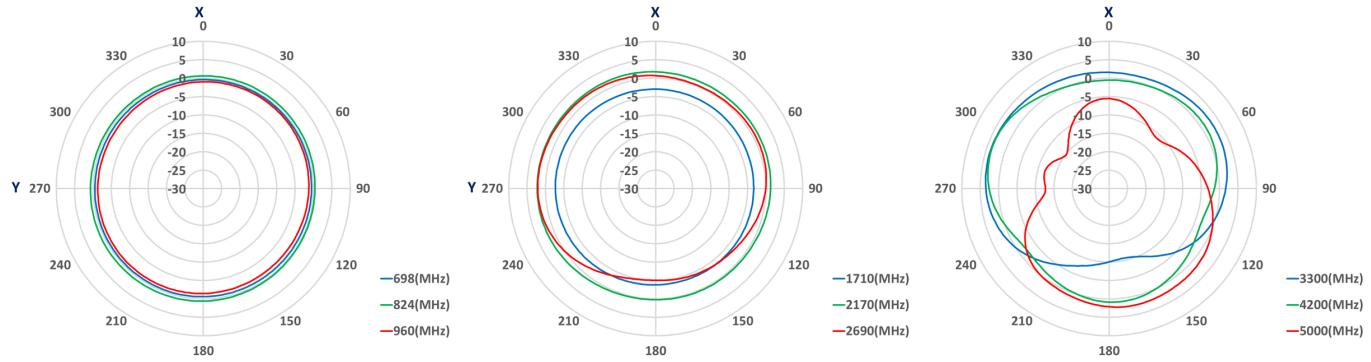


Blue background represents frequency response.

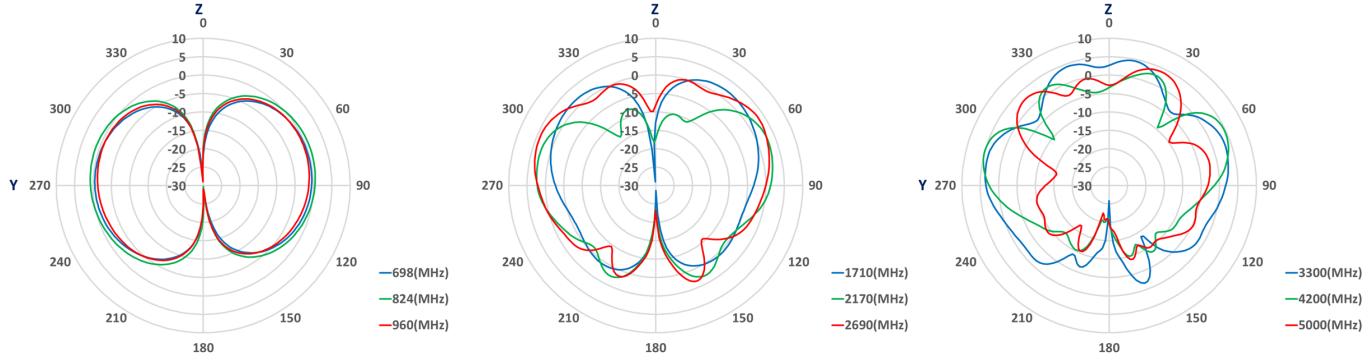


Radiation Pattern - Free Space

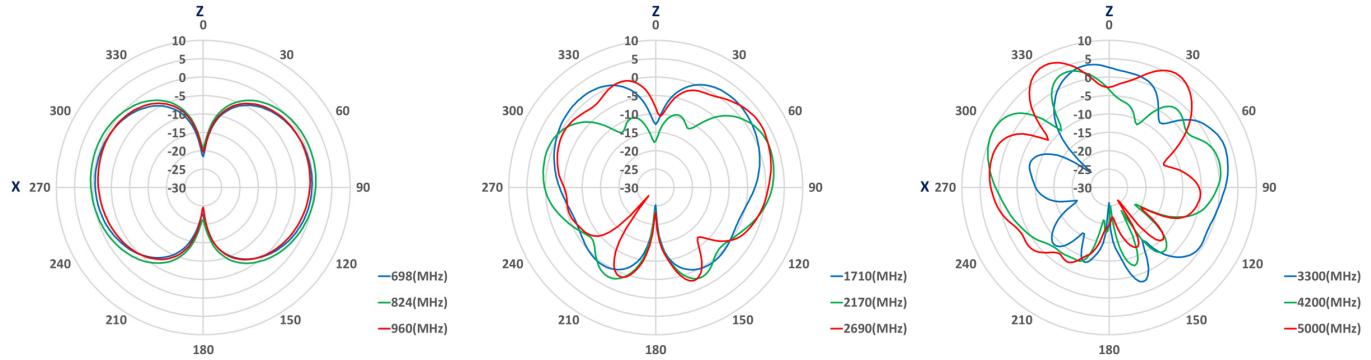
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-10-25	ST0449-21-201-A-RA00	ATC

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