

## Datasheet

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

External

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



Stick Antenna



## 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

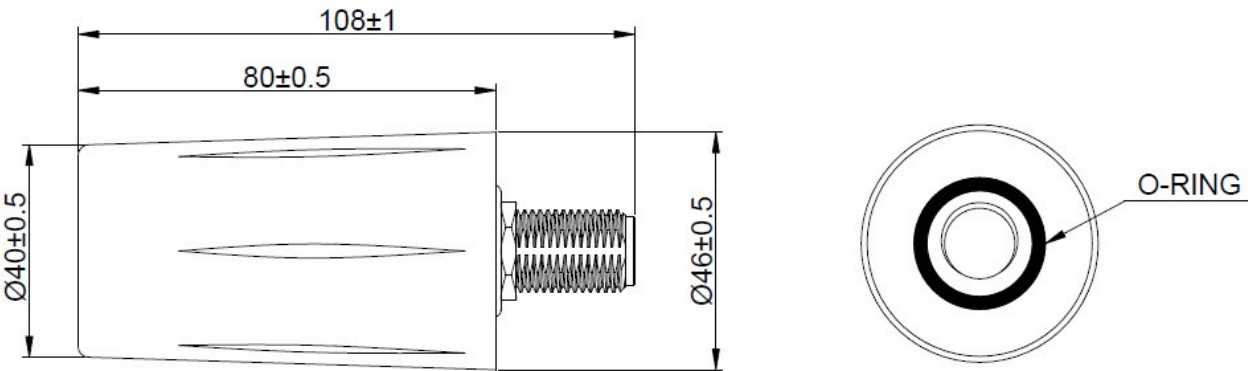
Mechanical Specifications

Mechanical	
Dimension (mm)	Ø46.0 × 108.0
Connector Type	N-type (Jack)
Material	ABS
Weight (g)	92.4

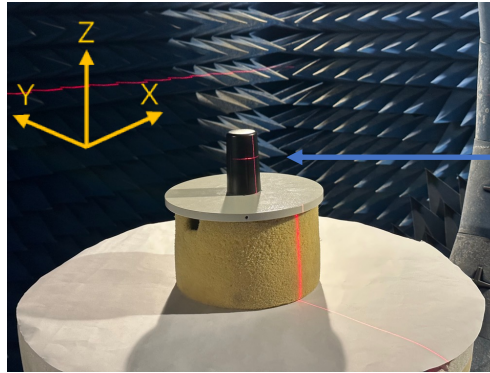
Environmental	
Temperature Range (°C)	-40 to 80
IP Rating	IP67
RoHS Compliant	

Mechanical Drawing

Unit : mm

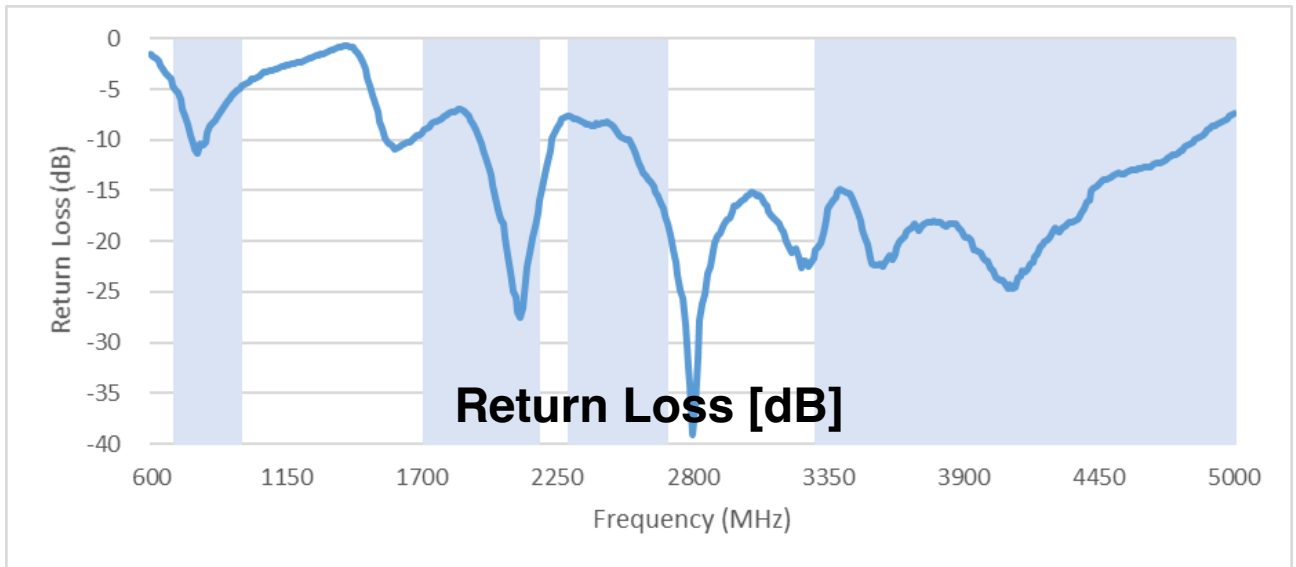


## Charts In Free Space

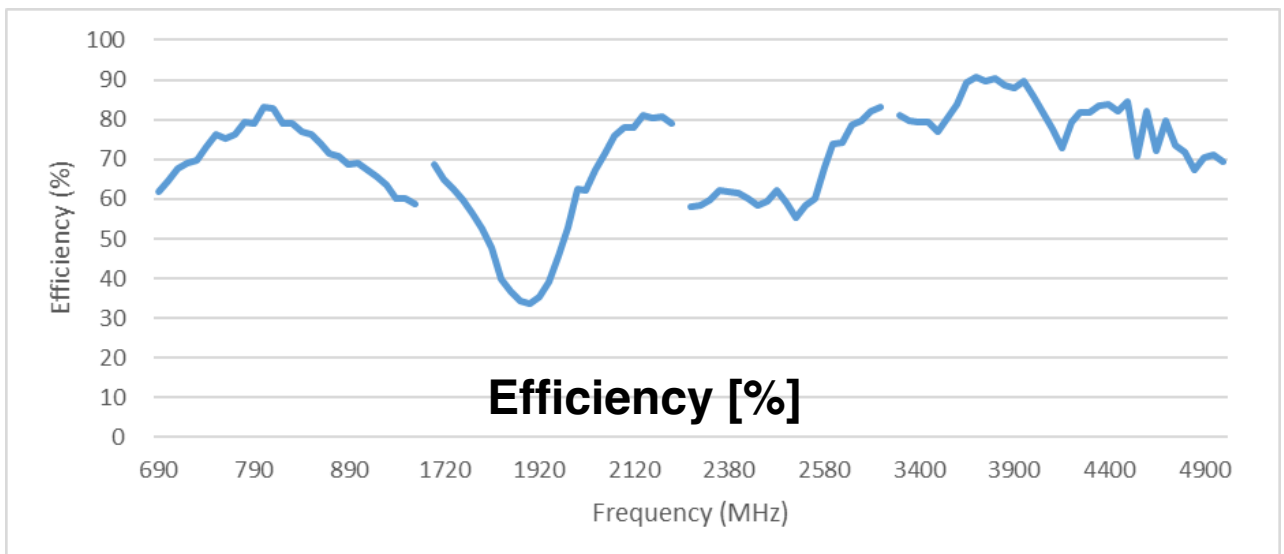


ST0449-21-201-A

Test setup, measurement performed in 3D anechoic chamber.

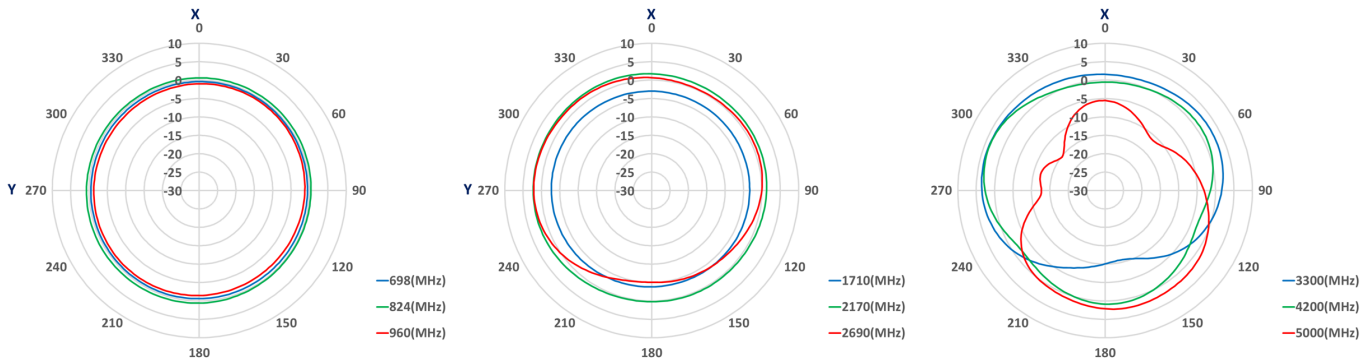


Blue background represents frequency response.

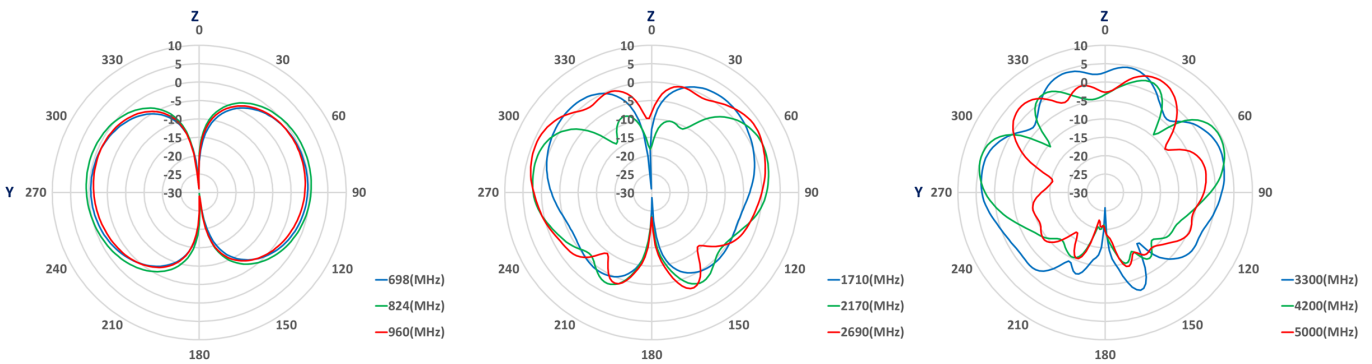


**Radiation Pattern - Free Space**

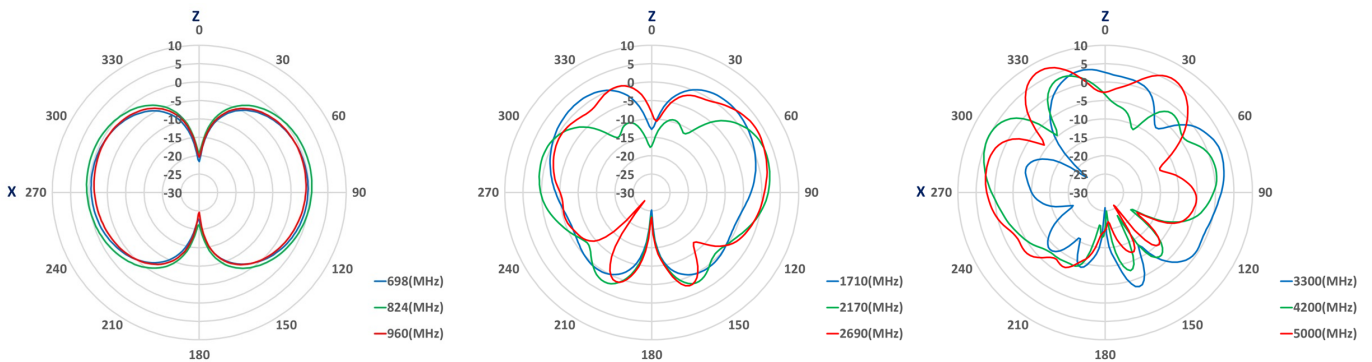
**XY - Plane**



**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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