

Datasheet

0.7-0.96GHz & 1.7-2.7GHz External / Outdoor



Bar Antenna

Features:

High performing full 4G LTE band antenna with SMA connector, applicable for indoor or outdoor, and IP67 is certified.

Applications:

- CPE - Router, Set-top boxes & Gateway
- IoT devices
- 4G LTE Mesh
- Smart Metering
- Robotics



Electrical Specifications

Antenna Characteristics

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

Frequency (GHz)	0.704~0.96	1.71~2.17	2.3~2.69
Return Loss (dB)	< -6	< -10	< -10
Peak Gain (dBi)	3.8	4.5	3.2
Average Gain (dB)	-2.4	-2.7	-3.1
Efficiency (%)	57	54	49

Mechanical Specifications

Mechanical

Dimension (mm)	105.1 × 30.1 × 7.9
Connector Type	SMA (Plug)
Cable Type	RG-174
Cable length (mm)	1000
Weight (g)	34.2

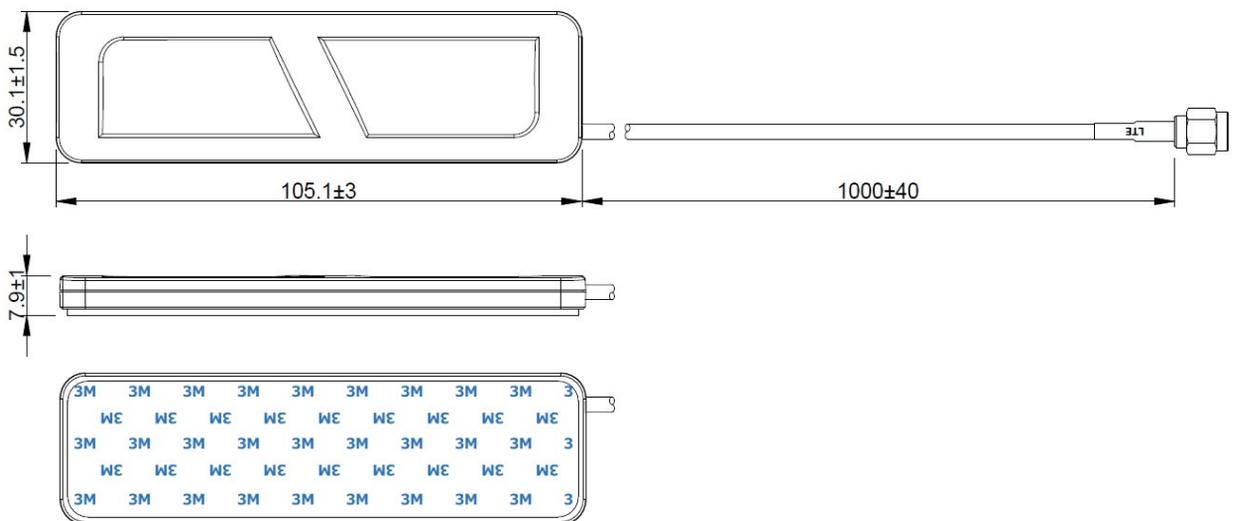
Environmental

Temperature Range (°C)	-40 to 85
IP Rating	IP67

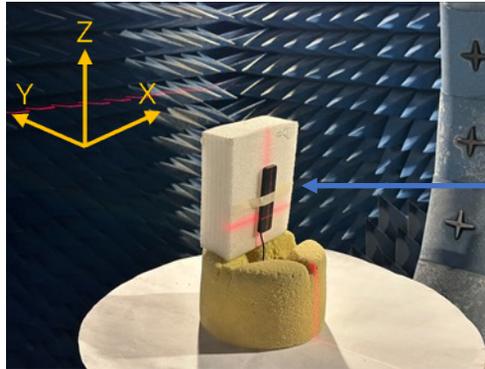
RoHS Compliant

Mechanical Drawing

Unit : mm

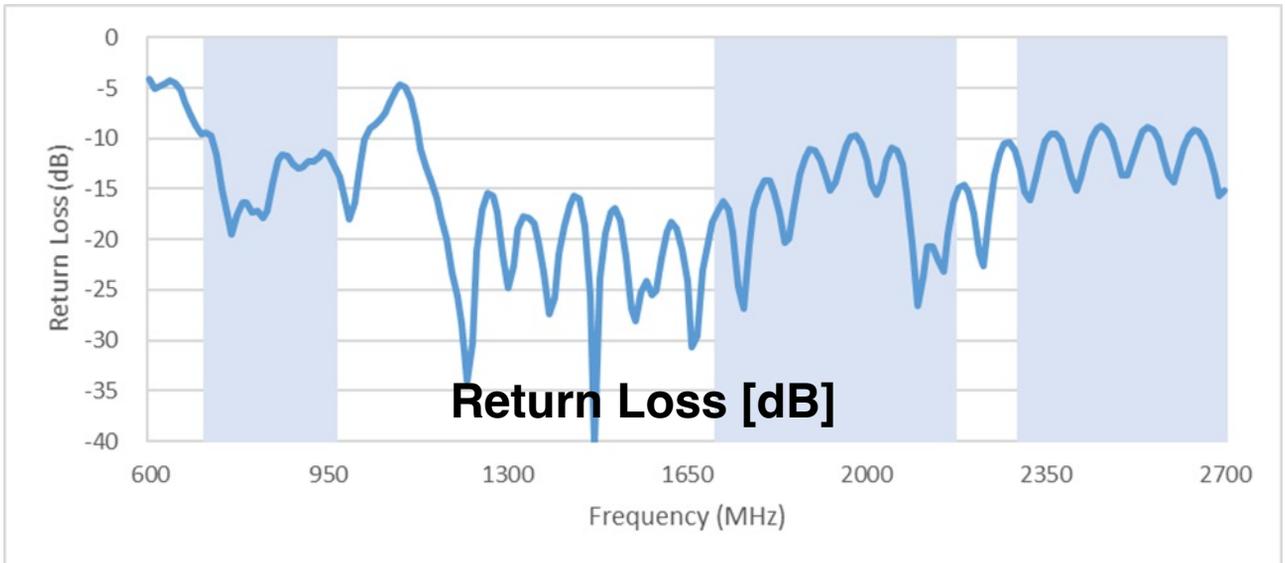


Charts In Free Space

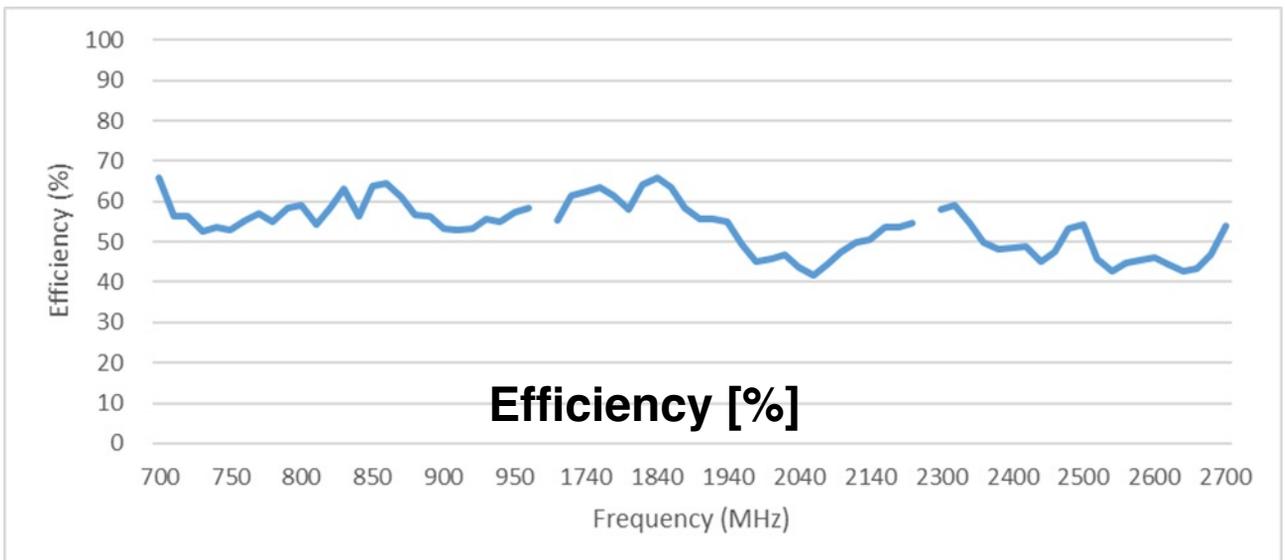


ST0330-31-001-A

Test setup, measurement performed in 3D anechoic chamber.

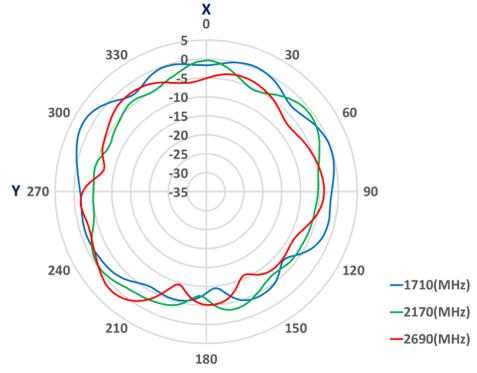
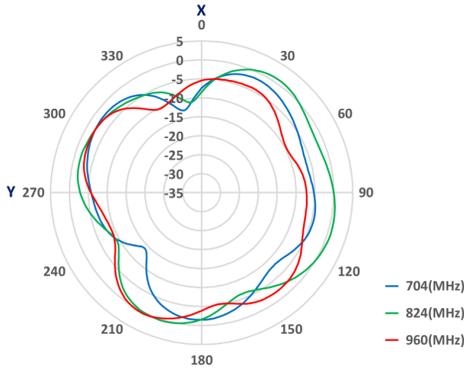


Blue background represents frequency response.

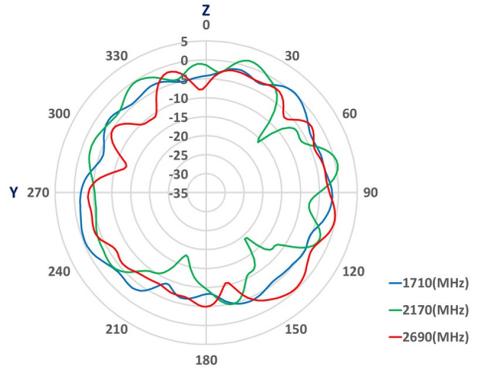
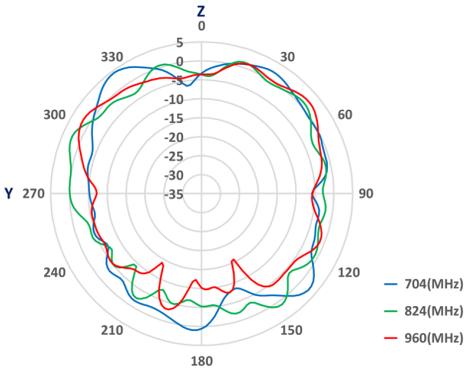


Radiation Pattern - Free Space

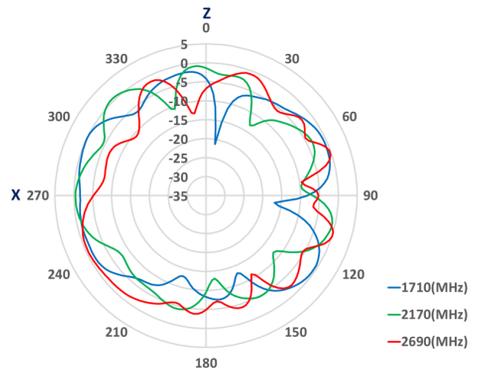
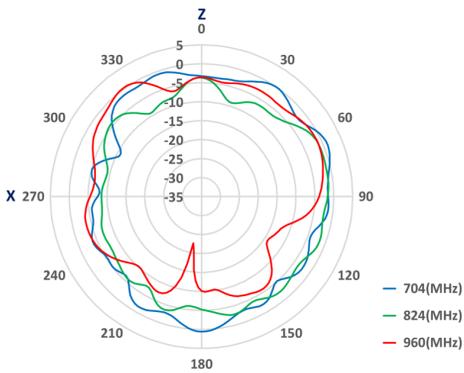
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-03-15	ST0330-31-001-A-RA00	ATC

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