

Datasheet

2.4-2.5GHz & 5.15-5.85GHz

Outdoor / Indoor

Features:

High performing Wi-Fi dual-band antenna with RP-SMA connector, RG-174 cable for outdoor & indoor applications and certified with IP67.

Applications:

- CPE - Router, Set-top boxes & Gateway
- IoT devices
- Wi-Fi Mesh
- Smart Metering
- Robotics



Bar Antenna



Electrical Specifications

Antenna Characteristics

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

Frequency (GHz)	2.4~2.5	5.15~5.825
Return Loss (dB)	< -10	< -10
Peak Gain (dBi)	3.2	2.0
Average Gain (dB)	-3.1	-3.7
Efficiency (%)	50	43

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

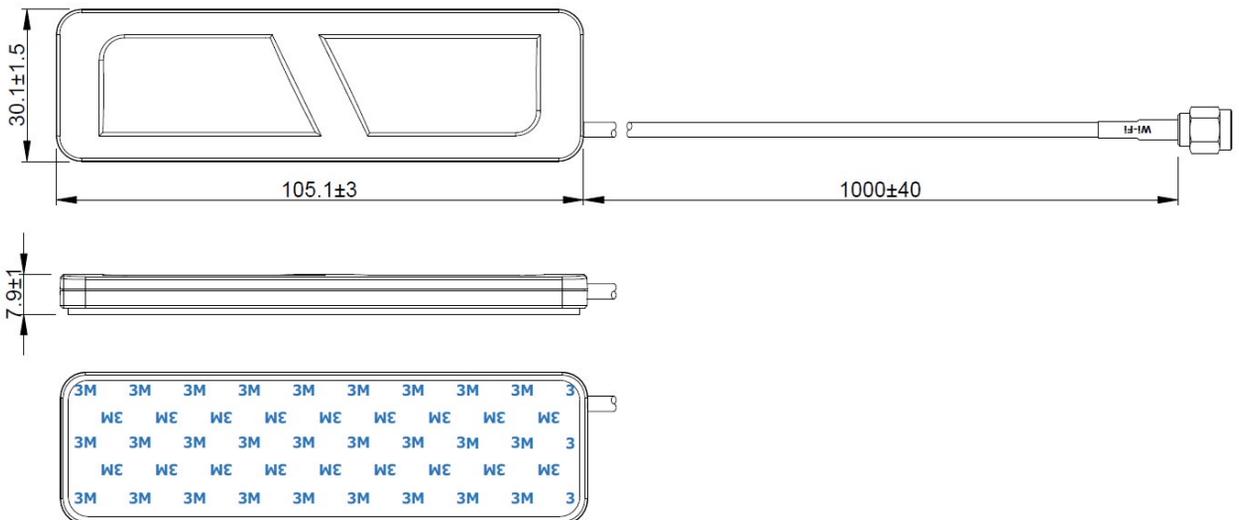
Environmental

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

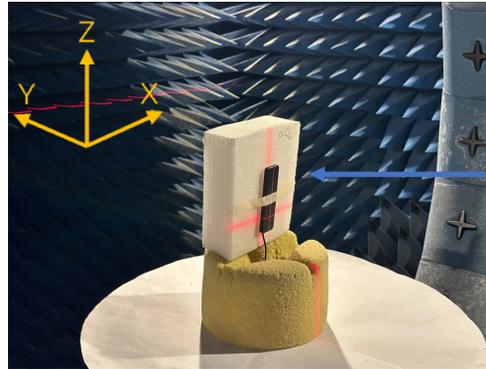
RoHS Compliant

Mechanical Drawing

Unit : mm

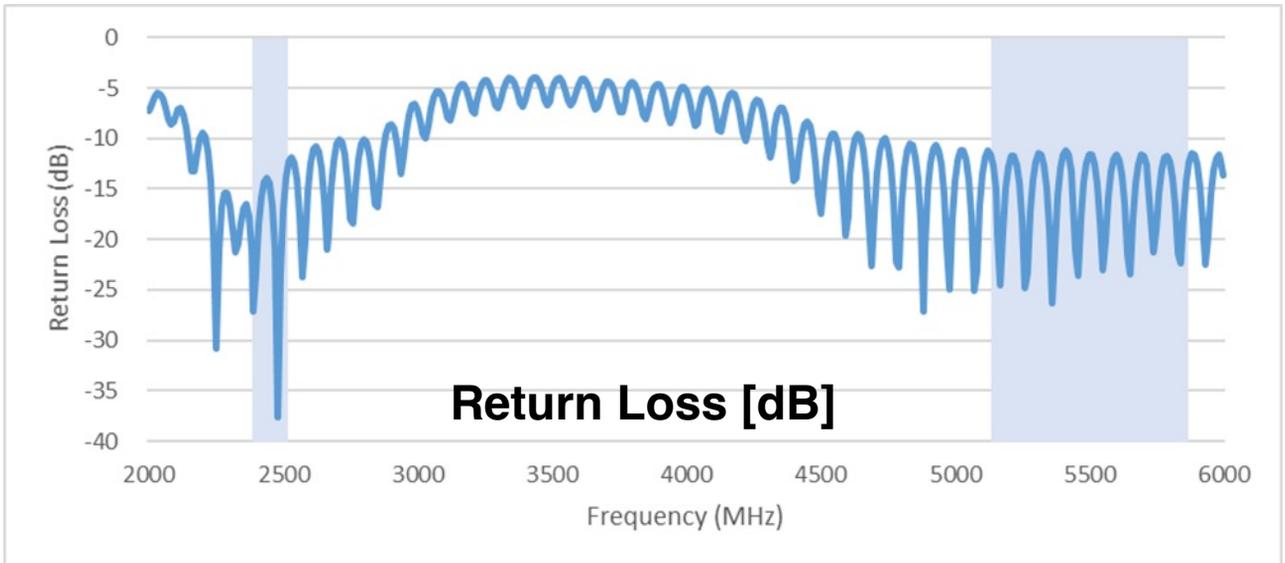


Charts In Free Space

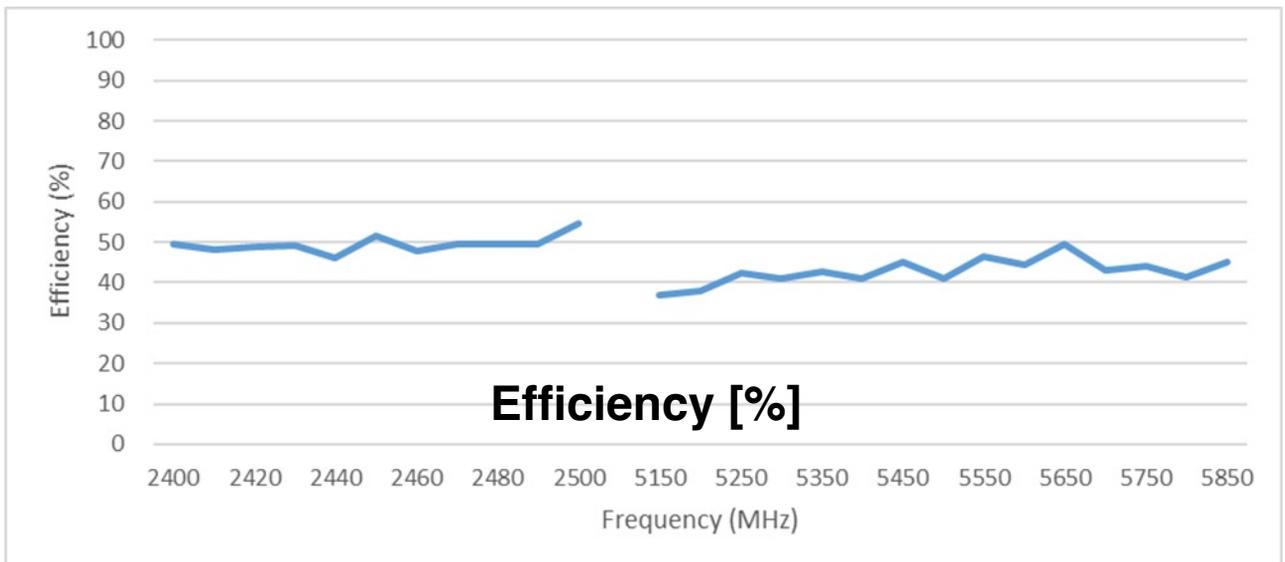


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Test setup, measurement performed in 3D anechoic chamber.

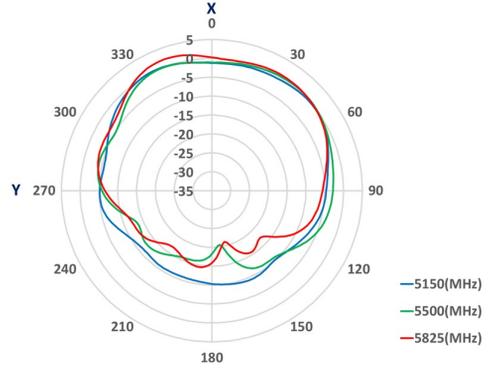
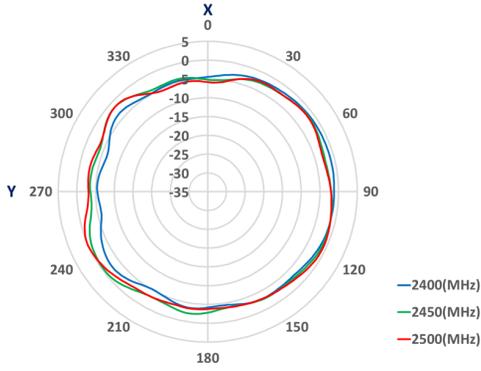


Blue background represents frequency response.

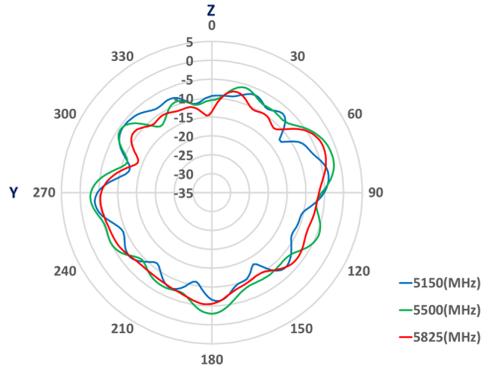
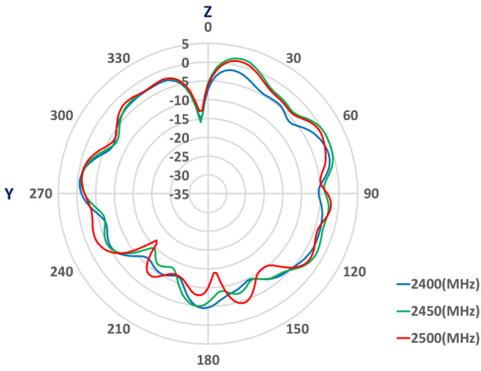


Radiation Pattern - Free Space

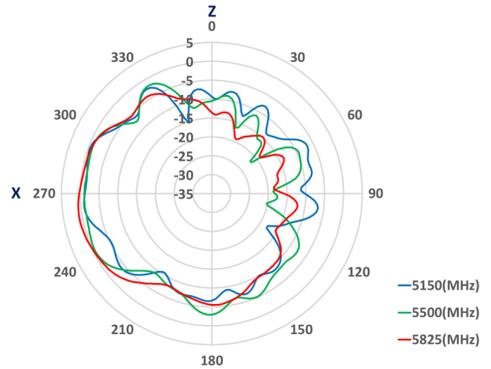
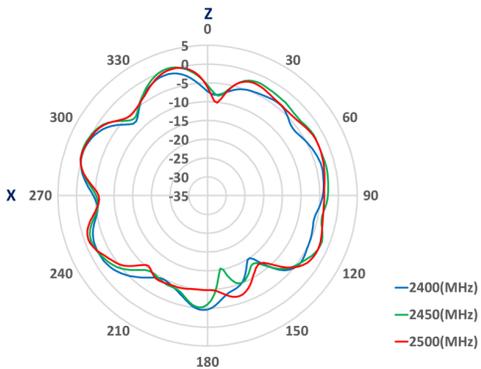
XY - Plane



YZ - Plane



XZ - Plane



Revisions

Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-03-15	ST0230-31-001-A-RA00	ATC

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