

Datasheet

2.4-2.5GHz & 5.15-5.85GHz

External / In-building

Features:

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

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	2W	50Ω

Frequency (GHz)	2.4~2.5	5.15~5.825
Return Loss (dB)	< -10	< -10
Peak Gain (dBi)	3.0	2.0
Average Gain (dB)	-2.4	-5.2
Efficiency (%)	57	30

Mechanical Specifications

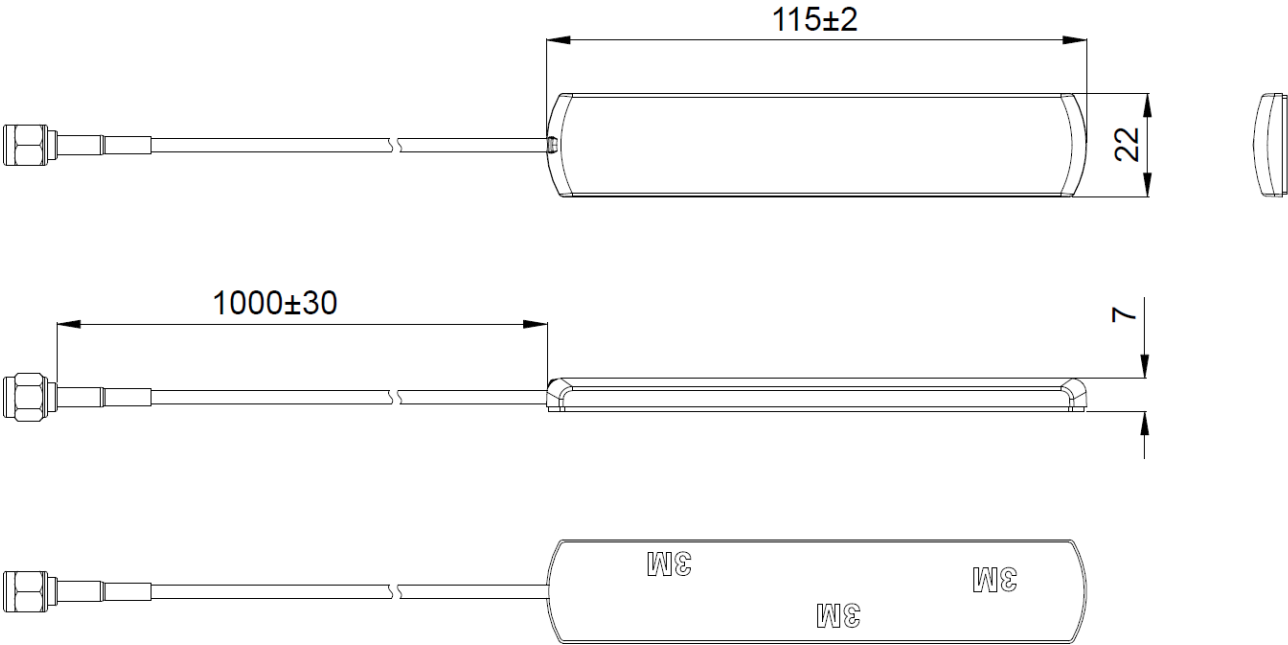
Environmental

Temperature Range (°C)	-40 to 65
RoHS Compliant	

Part Number	Length (mm)	Weight (g)	Connector Type	Cable Type	Radome
ST0227-41-501-A	115.0	25.2	RP-SMA (Plug)	RG-174	ABS

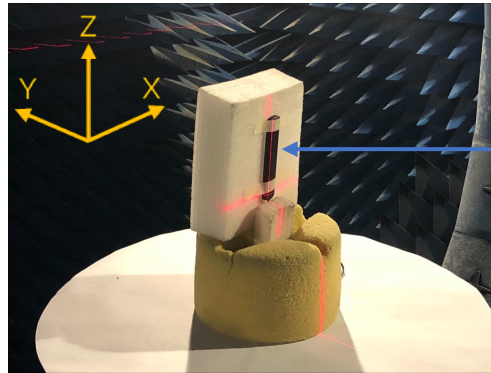
Mechanical Drawing

Unit : mm



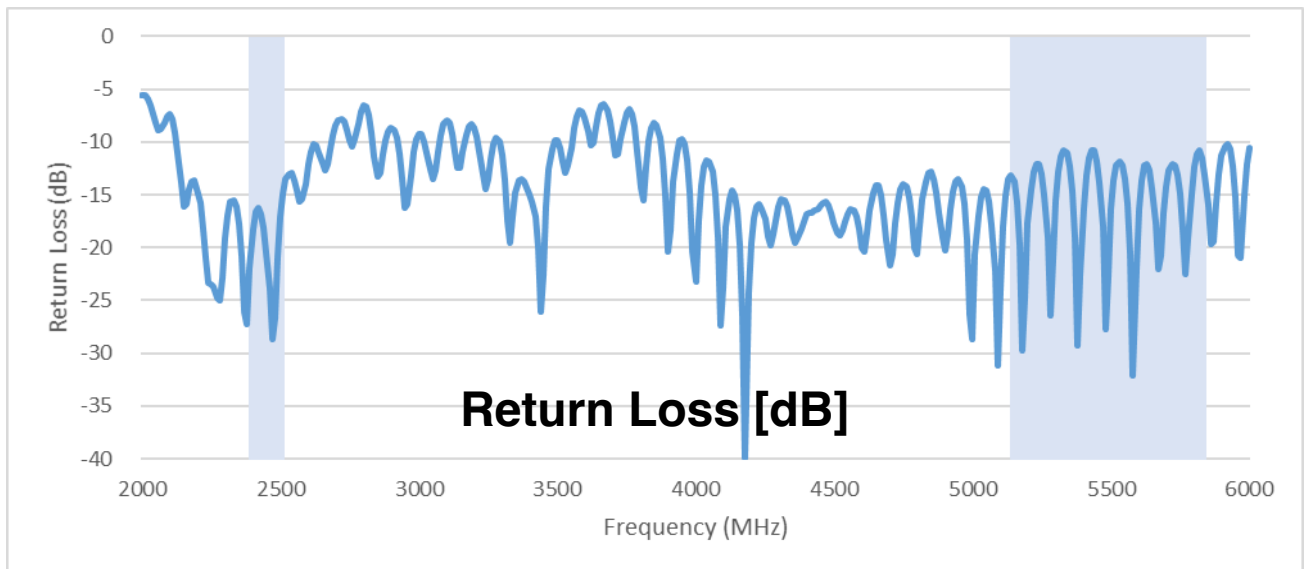
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Charts In Free Space

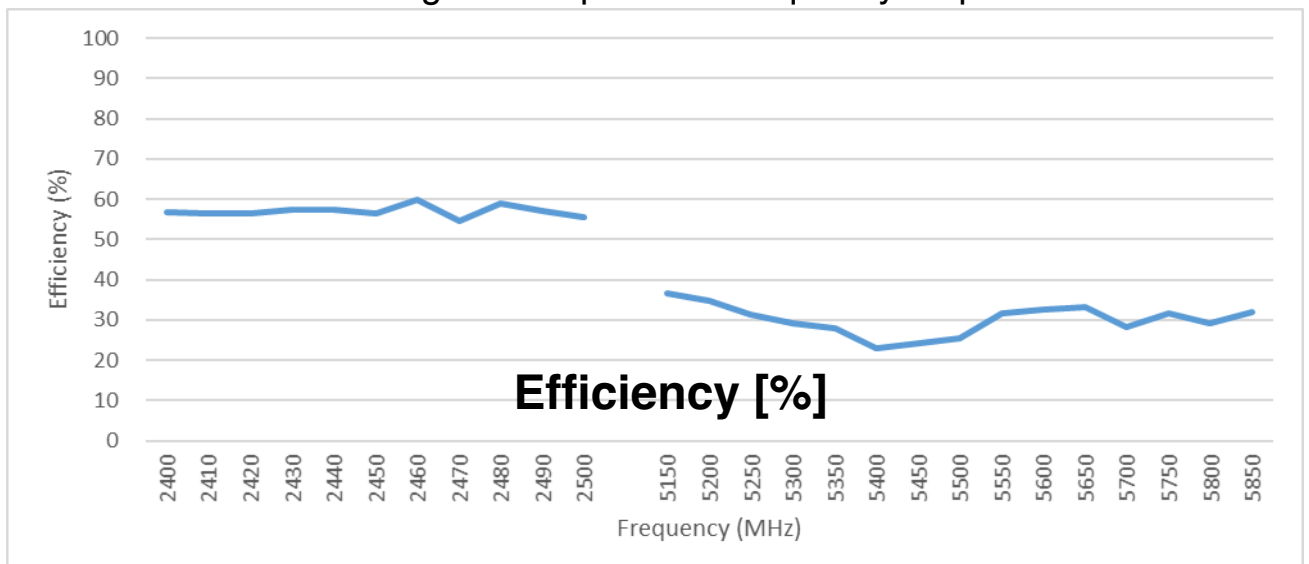


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Test setup, measurement performed in 3D anechoic chamber.

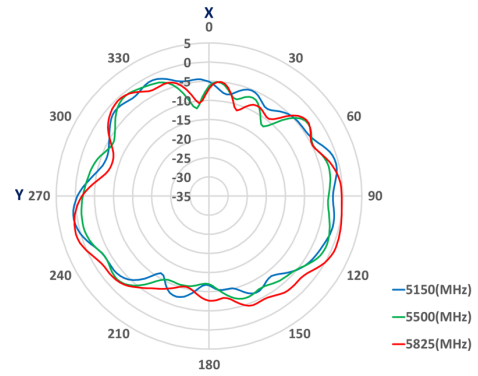
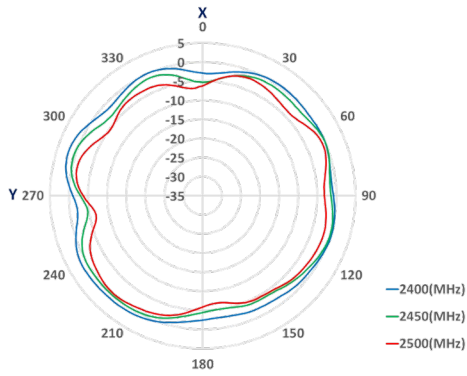


Blue background represents frequency response.

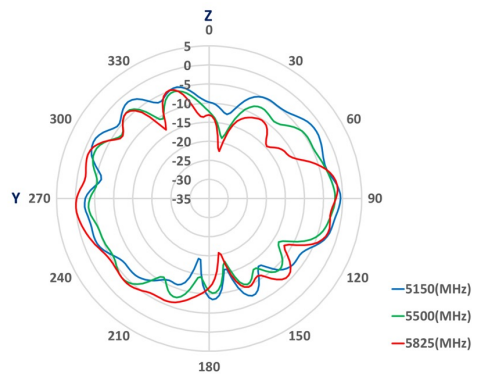
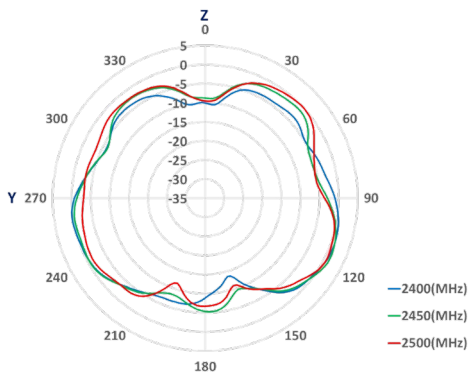


Radiation Pattern - Free Space

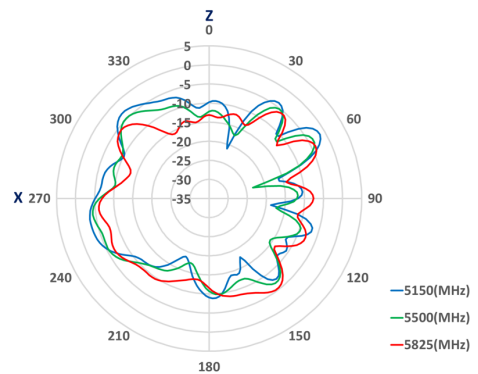
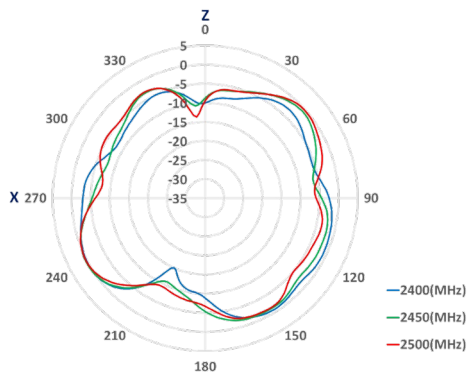
XY - Plane



YZ - Plane



XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2022-12-06	ST0227-41-501-A-RA00	ATC

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