Wi-Fi

ST0227-41-501-A

Amphenol

Datasheet

2.4-2.5GHz & 5.15-5.85GHz

External / In-building

Bar Antenna

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

RoHS

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

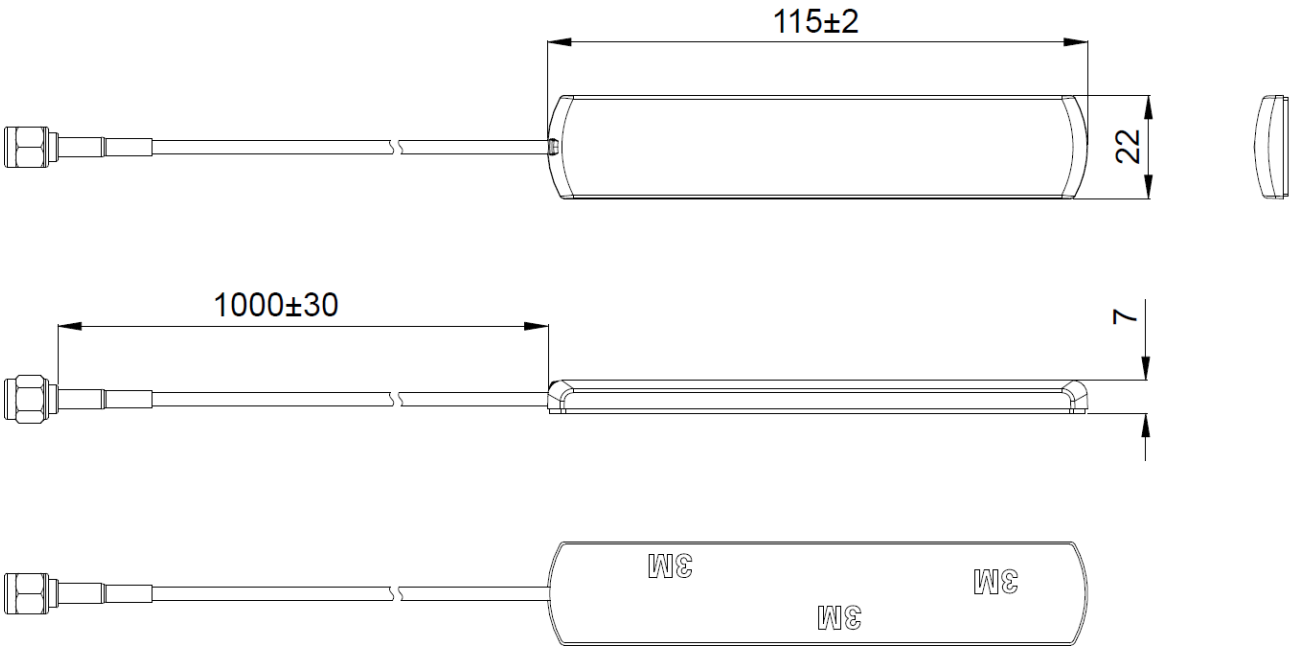
Mechanical Specifications

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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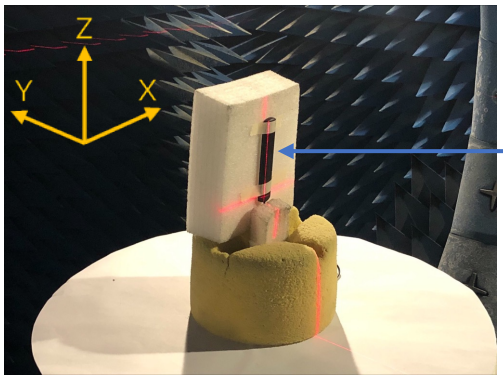
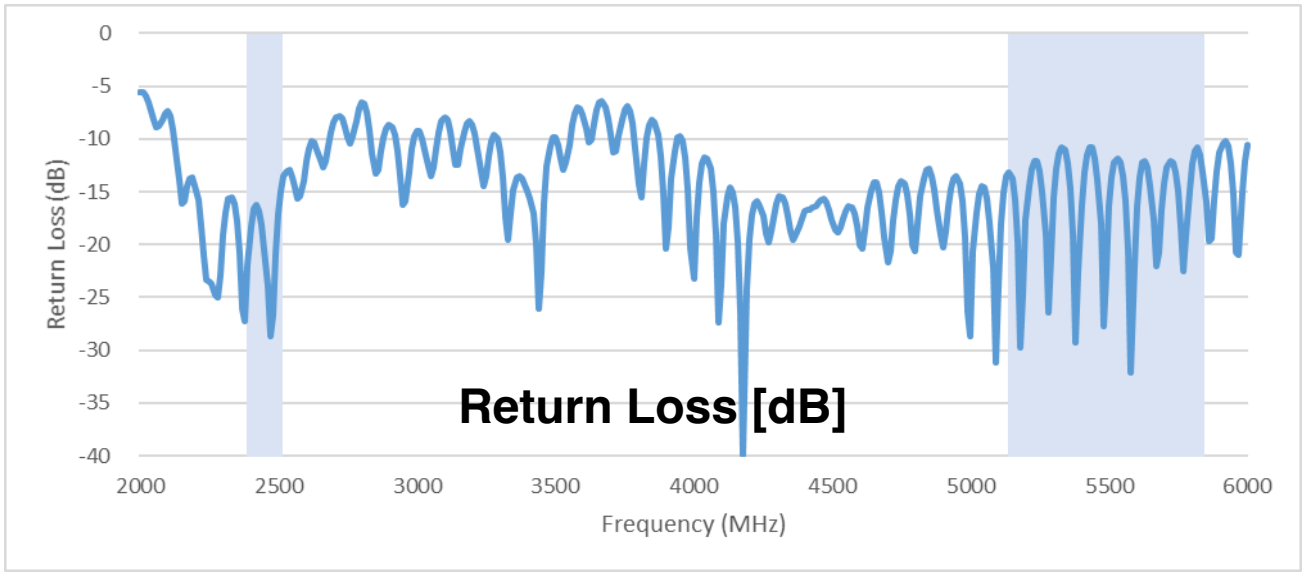
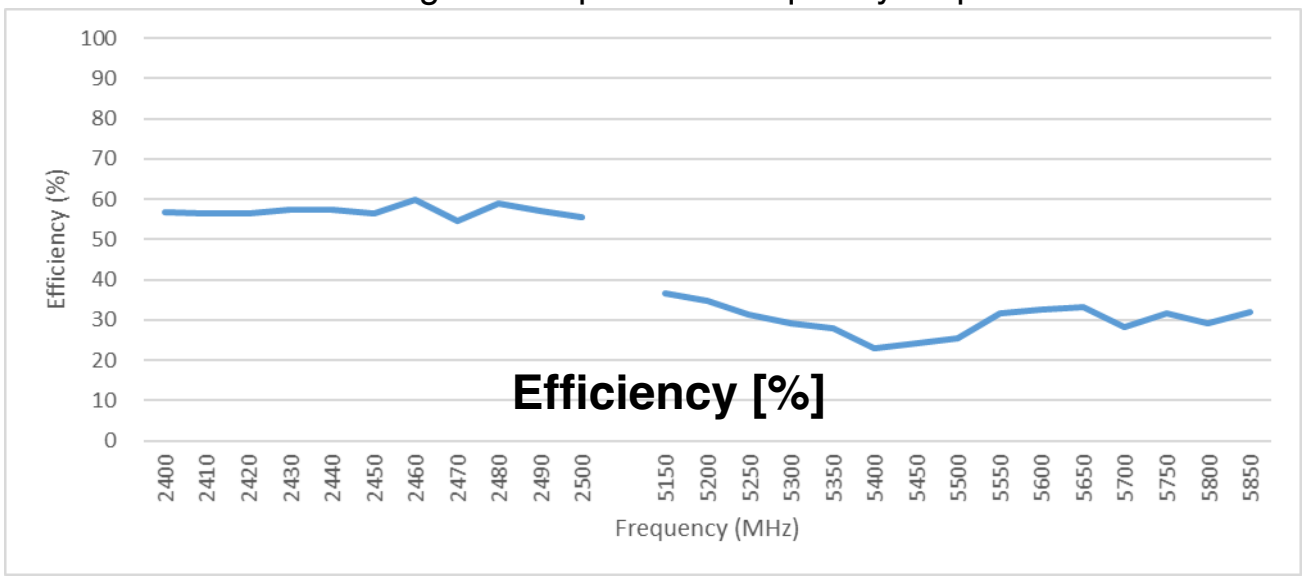
Charts In Free Space



Test setup, measurement performed in 3D anechoic chamber.

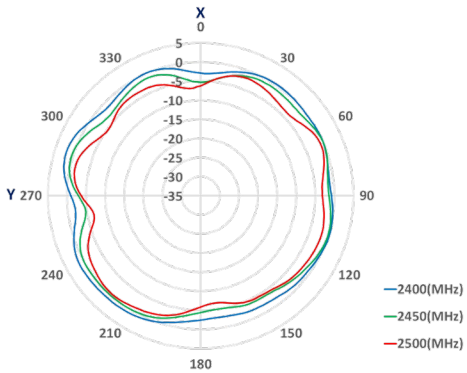


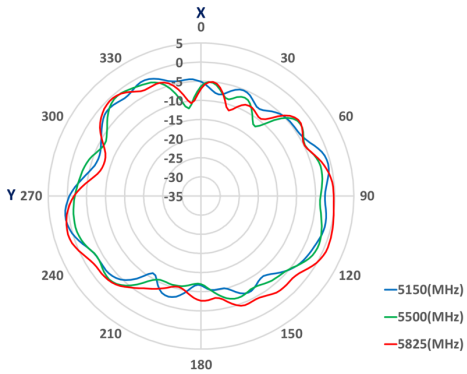
Blue background represents frequency response.



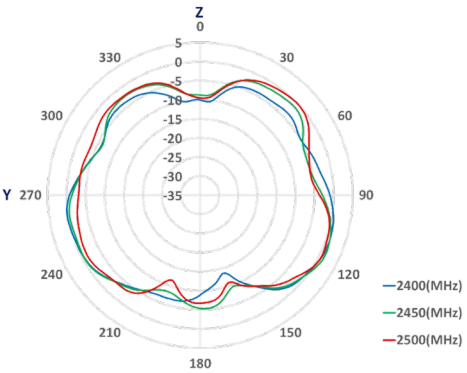
Radiation Pattern - Free Space

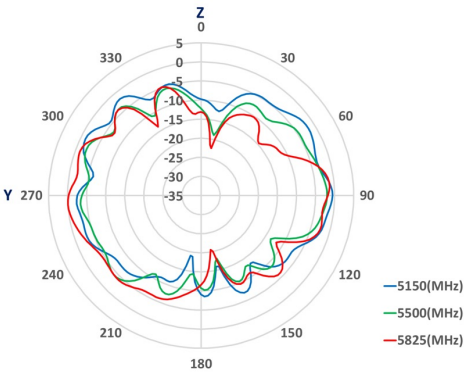
XY - Plane



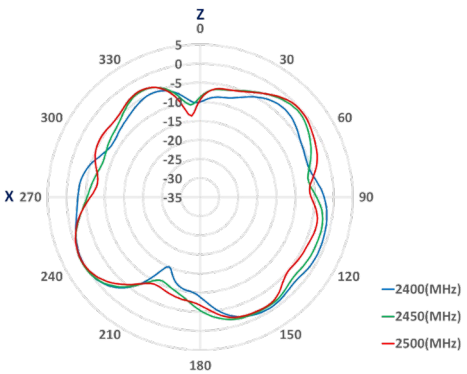


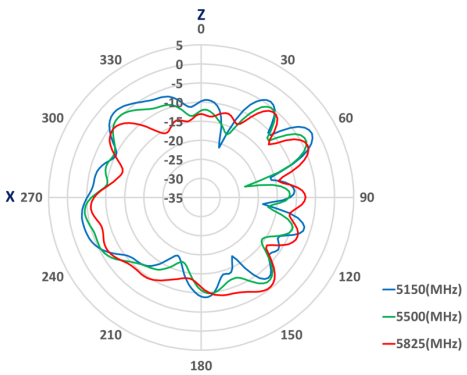
YZ - Plane





XZ - Plane





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