Wi-Fi 6E

ST1228-30-501-A

Amphenol

Datasheet

2.4-2.5GHz & 5.15-7.2GHz

External / Outdoor



Stick Antenna

Features:

High performing Wi-Fi 6/6E antenna with RP-SMA connector, with IP67 grade for outdoor applications.

Applications:

- CPE – Router, Set-top boxes, Gateway
- IoT devices
- Wi-Fi 6E Mesh
- Smart Metering
- Robotics

RoHS

Electrical Specifications

Antenna Characteristics

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

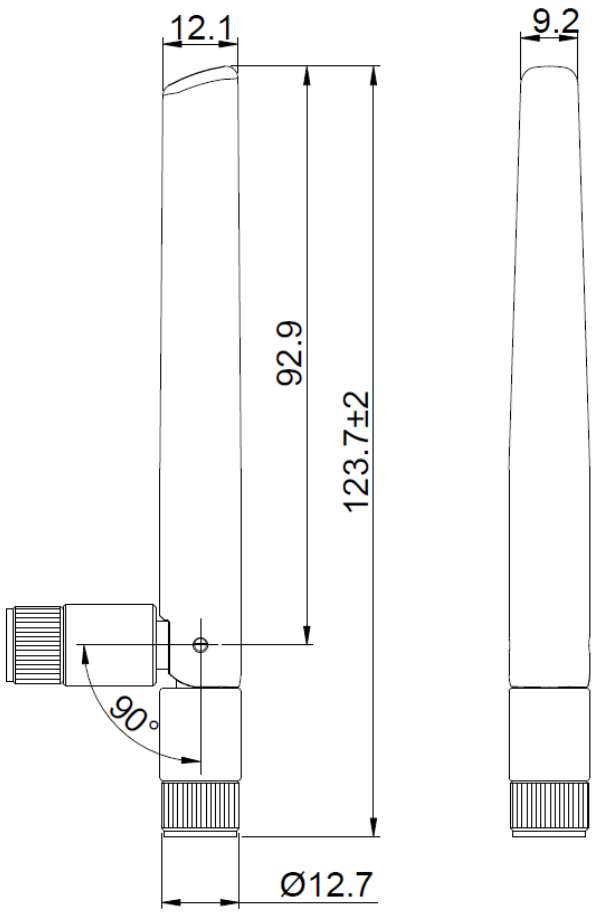
Frequency (GHz)	2.4~2.5	5.15~5.825	5.925~7.125
Return Loss (dB)	< -10	< -10	< -5
Peak Gain (dBi)	2.5	4.0	4.2
Average Gain (dB)	-0.7	-1.2	-1.6
Efficiency (%)	85	75	70

Mechanical Specifications

Environmental	
Temperature Range (˚C)	-30 to 70
IP Rating	IP67
RoHS Compliant	

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST1228-30-501-A	123.7	16.8	RP-SMA (Plug)	PC+PBT

Mechanical Drawing



Unit : mm

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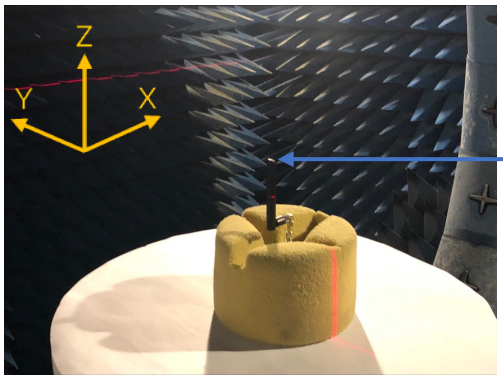
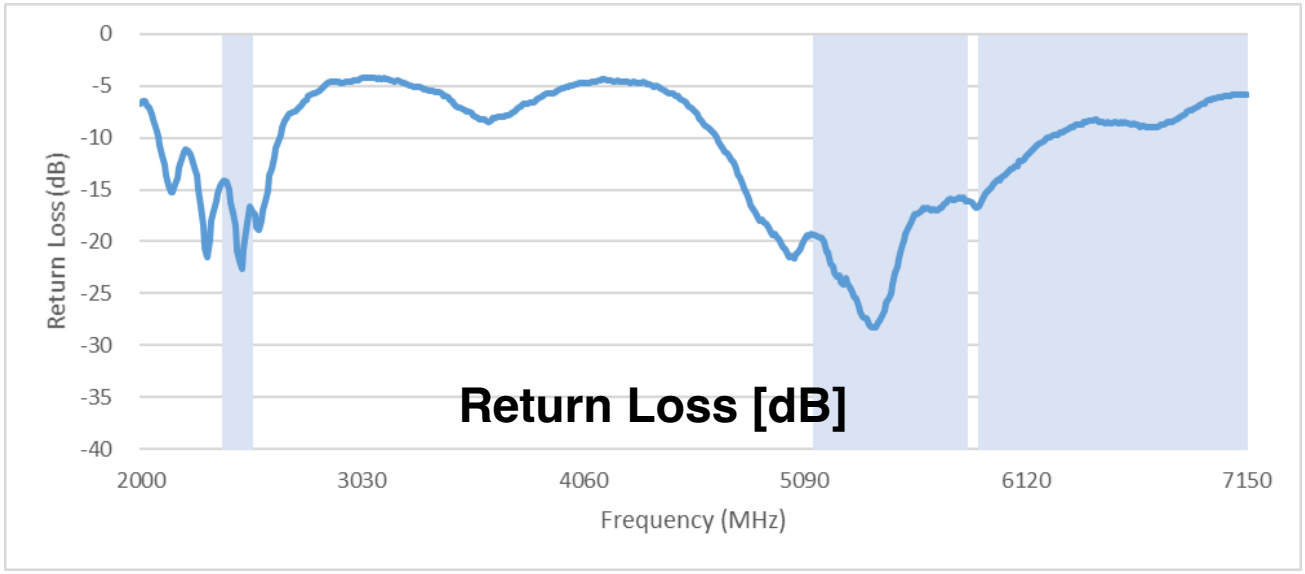
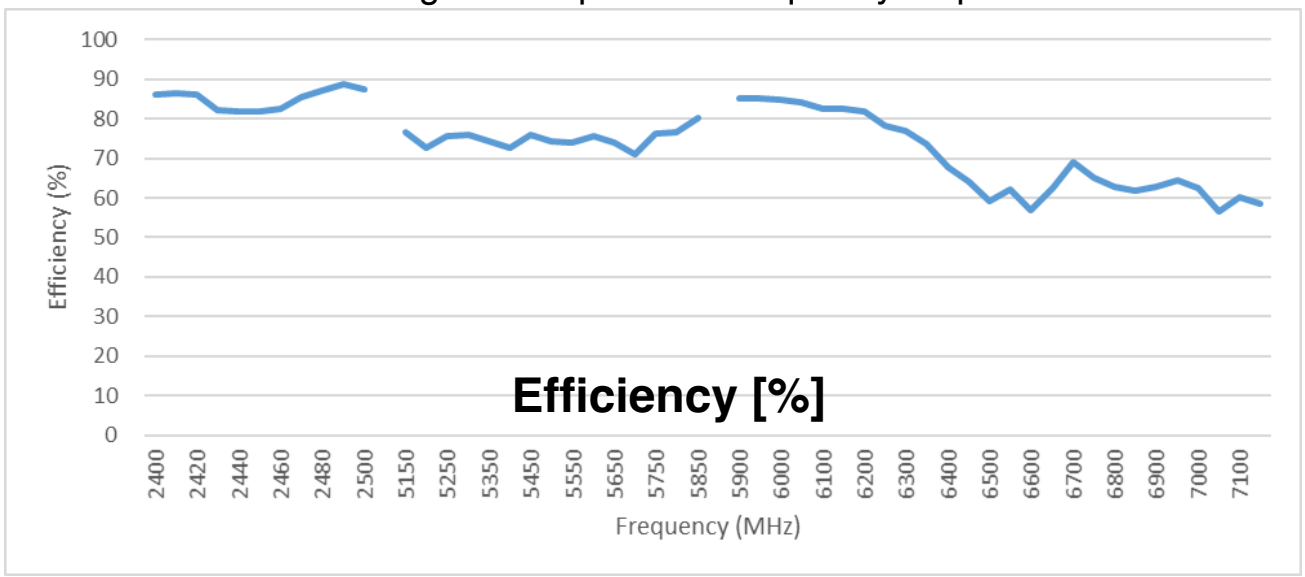
Charts In Free Space



Test setup, measurement performed in 3D anechoic chamber.

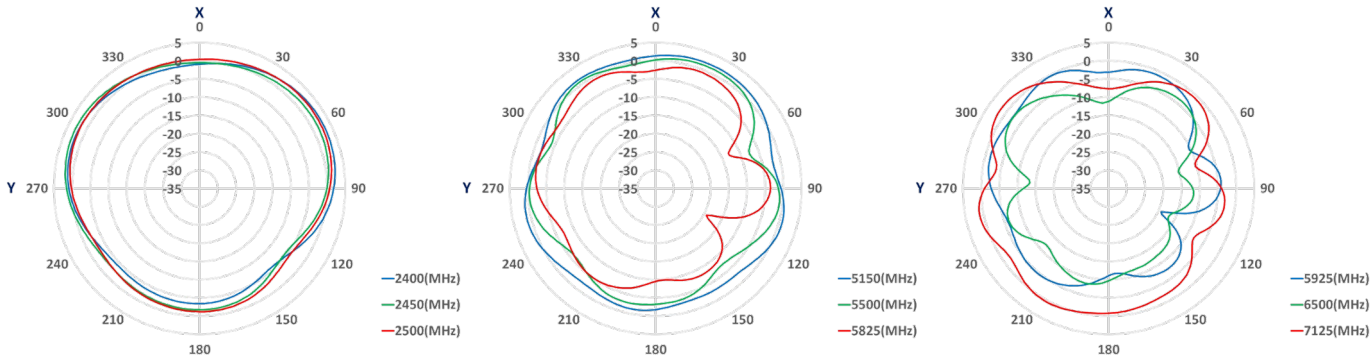


Blue background represents frequency response.

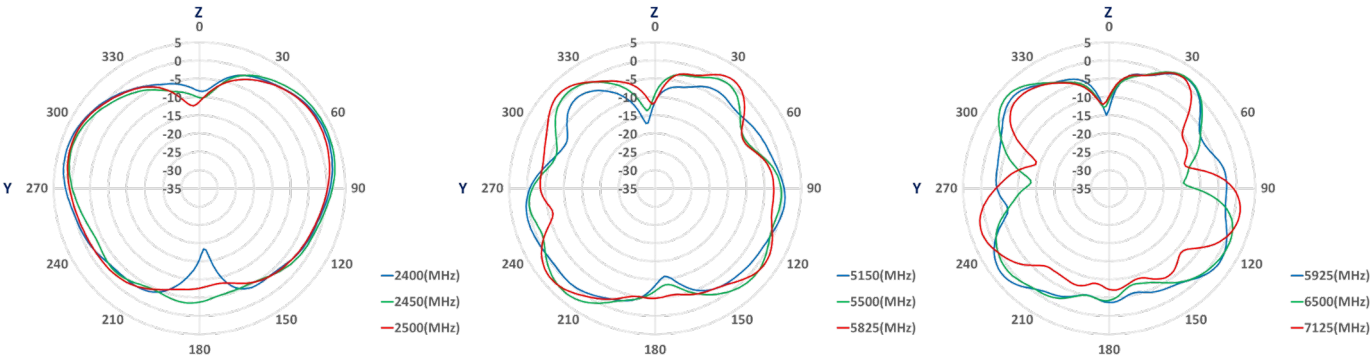


Radiation Pattern - Free Space

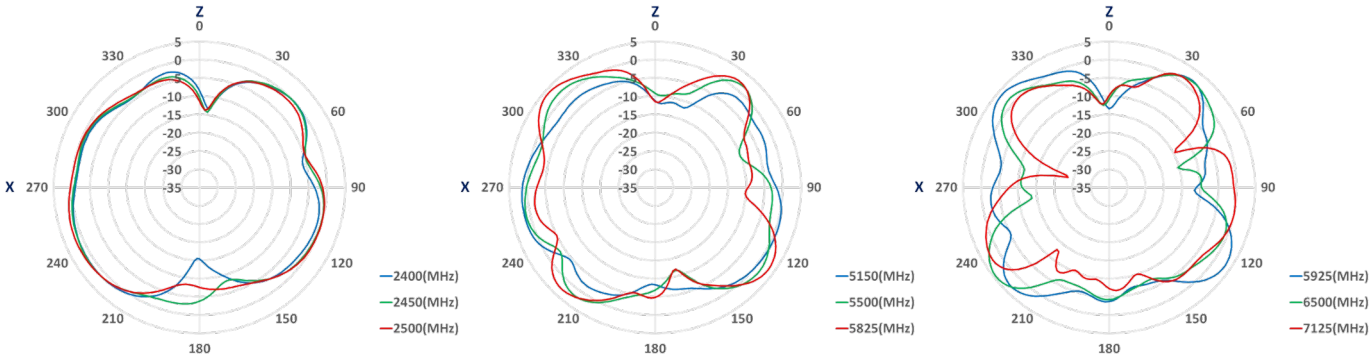
XY - Plane



YZ - Plane



XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2022-12-06	ST1228-30-501-A-RA00	ATC

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