Wi-Fi 6E

ST1226-30-X01-A

Amphenol

Datasheet

2.4-2.5GHz, 5.15-7.2GHz
External / In-building



Stick Antenna

Features:

High performing WiFi 6E with SMA/RP-SMA connector for indoor 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	5W	50Ω

Frequency (GHz)	2.4 – 2.5	5.15 – 5.85	5.925 – 7.125
Return Loss (dB)	< -10	< -10	< -10
Gain, Peak / Average (dB)	2.0 / -2.4	4.1 / -1.1	5.1 / -1.1
Efficiency / Average (%)	57	79	77

Mechanical Specifications

Environmental	
Temperature Range (˚C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH
RoHS Compliant	

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST1226-30-001-A	136	8.8	SMA Plug	TPEE / PC+PBT
ST1226-30-501-A	136	8.8	RP-SMA Plug	TPEE / PC+PBT

Mechanical Drawing



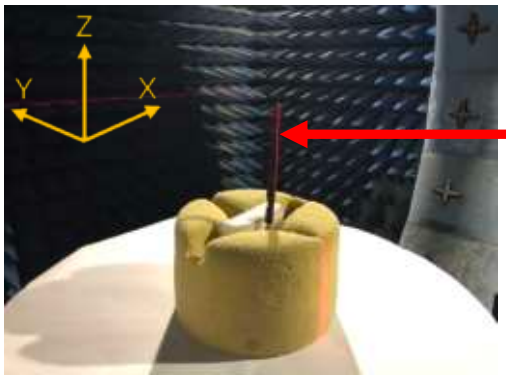


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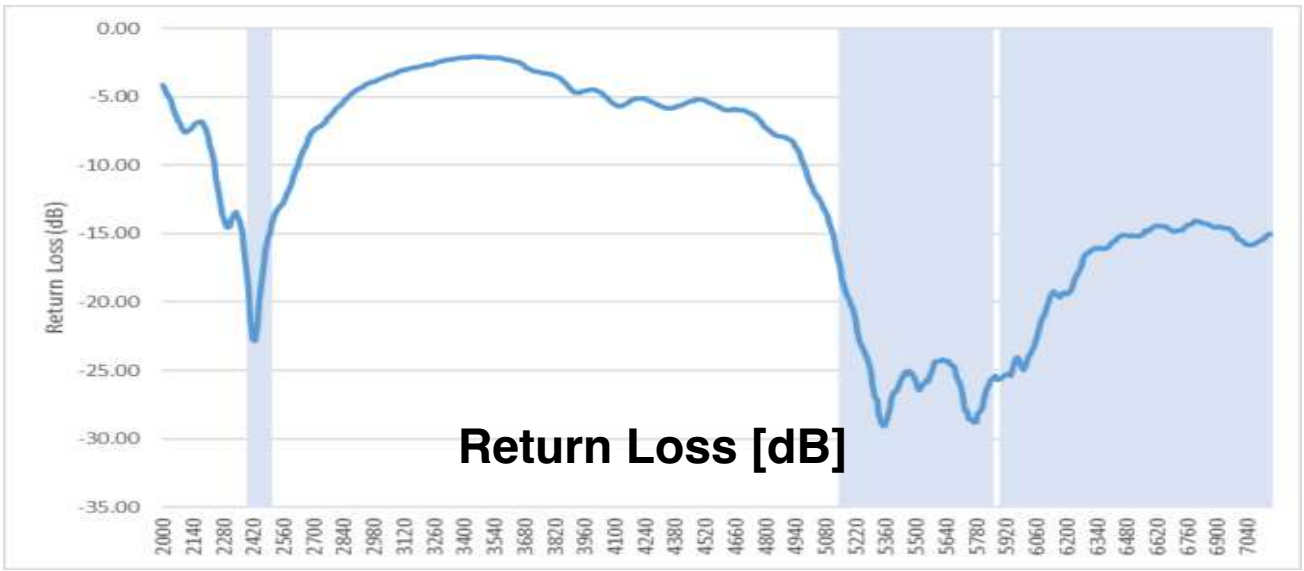
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Charts in Free Space

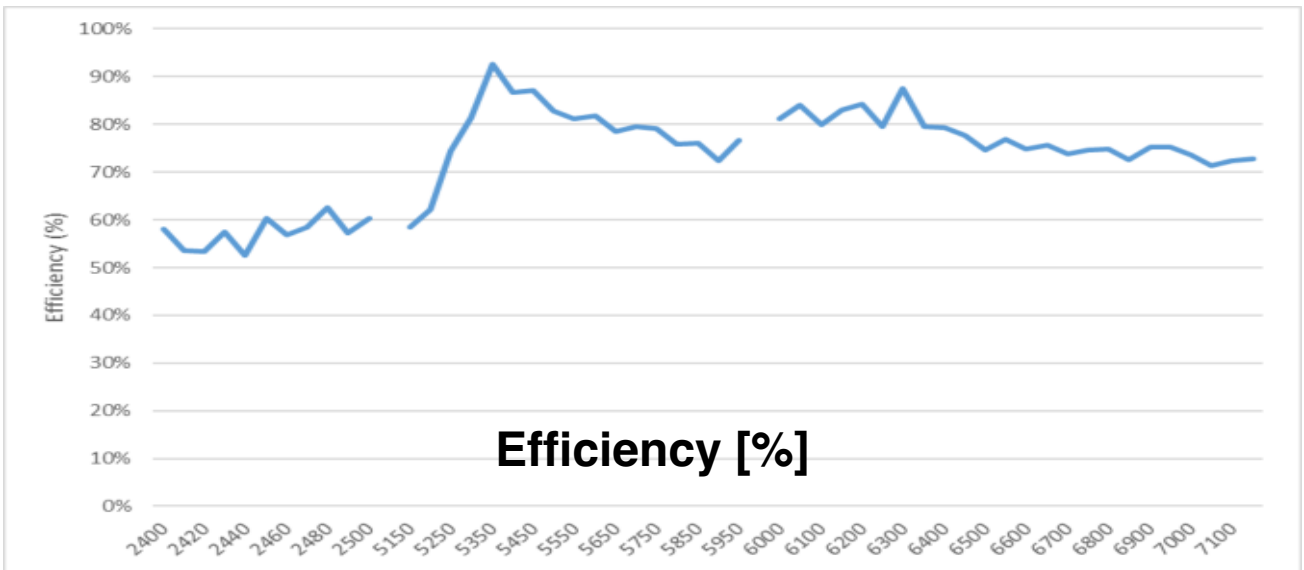


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Test setup, measurement performed in 3D Anechoic Chamber

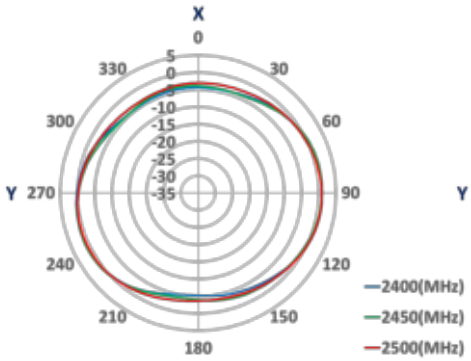


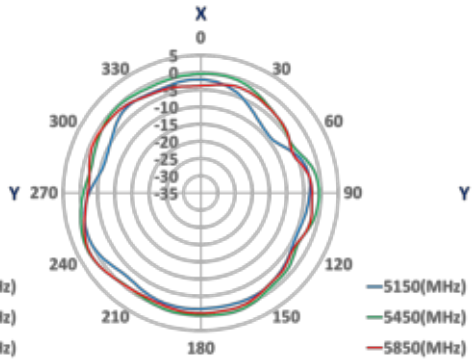
Blue background represents frequency response.

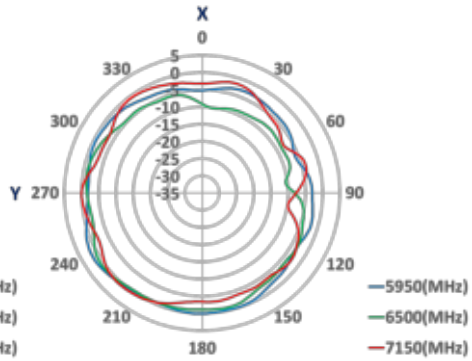


Radiation Pattern - Free Space

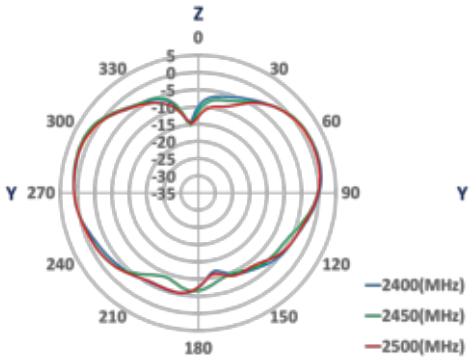
XY - Pane

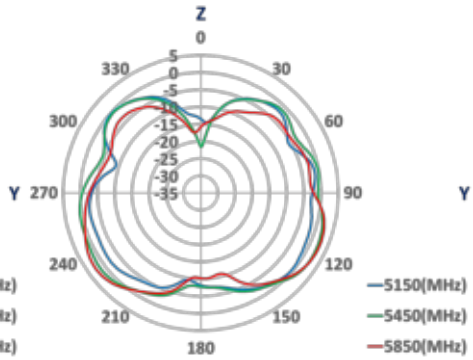


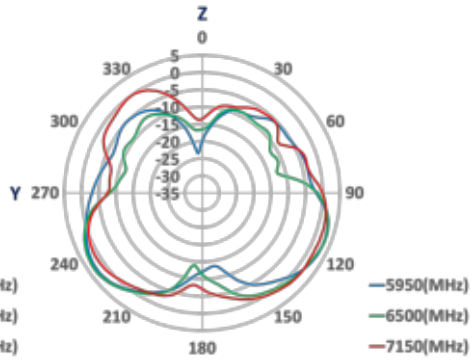




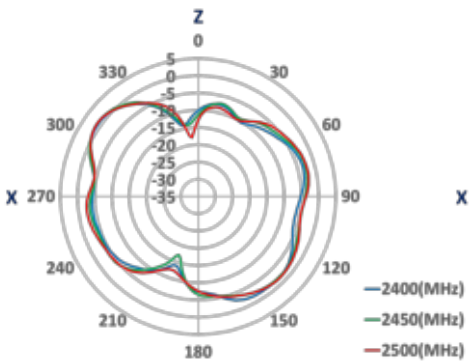
YZ - Plane

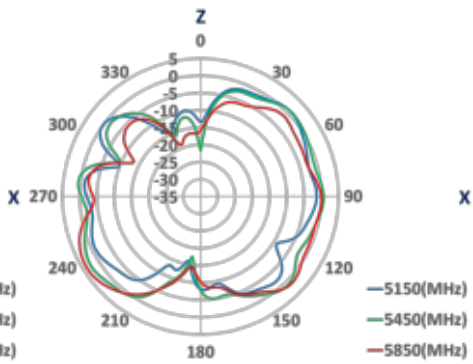


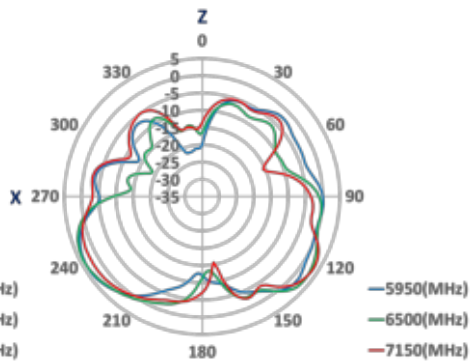




XZ - Plane







Revisions				
Rev	Description	Date	ECN	Approval
A	Initial Release	2022-10-25	ST1226-30-X01-A-RA00	ATC
B	RF Performance update	2023-02-25	ST1226-30-X01-A-RB00	ATC

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