ST0228-30-X02-A

Amphenol

Datasheet

2.4-2.5Ghz & 5.15-5.85GHz

External / In-building



High performing Wi-Fi dual-band antenna with SMA/RP-SMA connector for indoor applications

Applications:

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



Stick Antenna



Electrical Specifications Antenna Characteristics Antenna Type Radiation Pattern Polarization Max. Input Power Impedance Stick Antenna Omni Linear 2W 50Ω

Frequency (GHz)	2.4 – 2.5	5.15 – 5.85	
Return Loss (dB)	<-10	<-10	
Gain, Peak / Average (dB)	3.0 / -0.5	4.4 / -0.6	
Efficiency / Average (%)	89	87	

Wi-Fi

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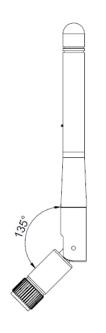
Mechanical Specifications

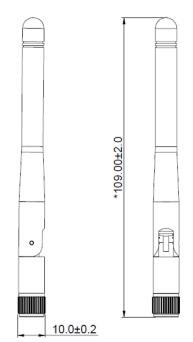
Environmental				
Temperature Range (°C)	-40 to 85			
Humidity	Non-condensing 65°C 95% RH			
D 110 0 11 1				

RoHS Compliant

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST0228-30-002-A	109	7.35	SMA Plug	TPEE/ABS
ST0228-30-502-A	109	7.35	RP-SMA Plug	TPEE/ABS

Mechanical Drawing







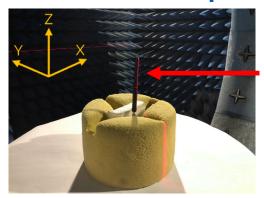


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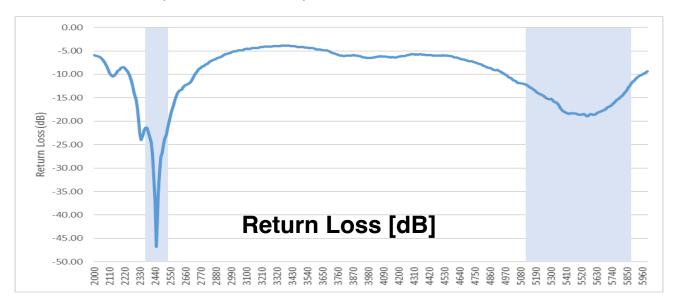
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Charts in Free Space

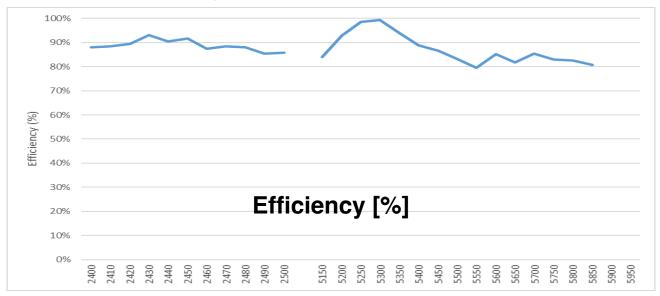


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Test setup, measurement performed in 3D Anechoic Chamber



Blue background represents frequency response.



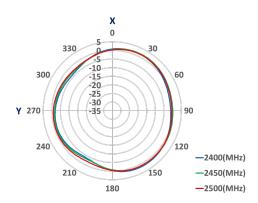
Wi-Fi

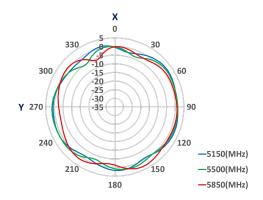
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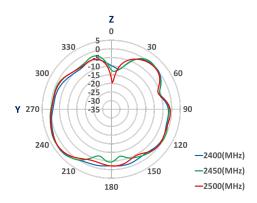
Radiation Pattern - Free Space

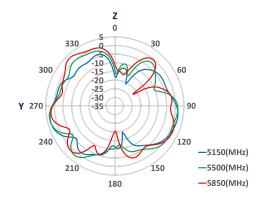
XY - Pane



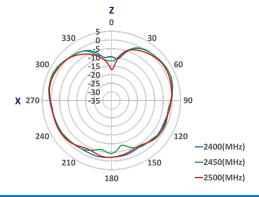


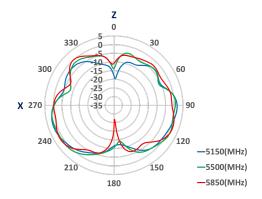
YZ - Plane





XZ - Plane





Wi-Fi

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Revisions							
Rev	Description	Date	ECN	Approval			
Α	Initial Release	2022-10-25	ST0228-30-X02-A-RA00	ATC			
В	RF Performance update	2023-01-02	ST0228-30-X02-A-RB00	ATC			

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