

Datasheet

Amphenol

2.4-2.5Ghz & 5.15-5.85GHz

External / In-building



Stick Antenna

Features:

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



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	

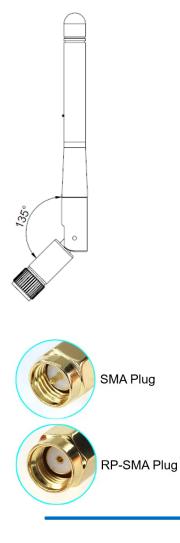


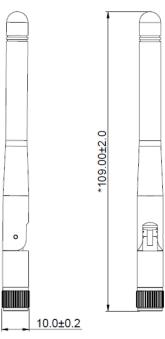
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Mechanical Specifications				
Environmental				
Temperature Range (°C)	-40 to 85			
Humidity	Non-condensing 65°C 95% RH			
RoHS Compliant				
RoHS Compliant				

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







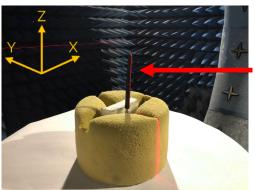
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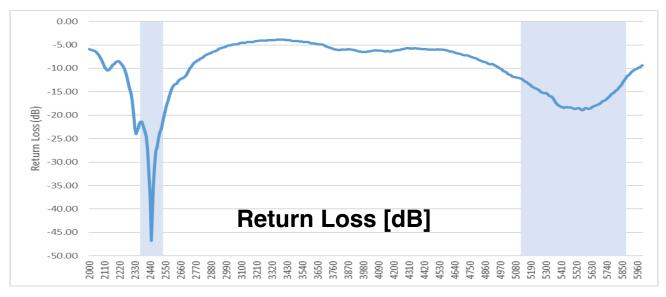
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Charts in Free Space

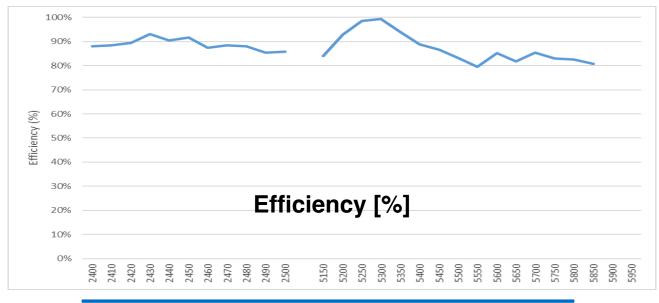


ST0228-30-502-A

Test setup, measurement performed in 3D Anechoic Chamber



Blue background represents frequency response.

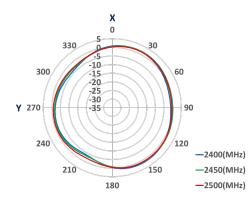


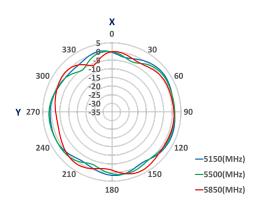
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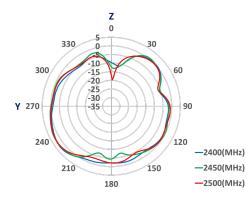


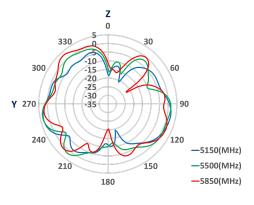
Radiation Pattern - Free Space XY - Pane



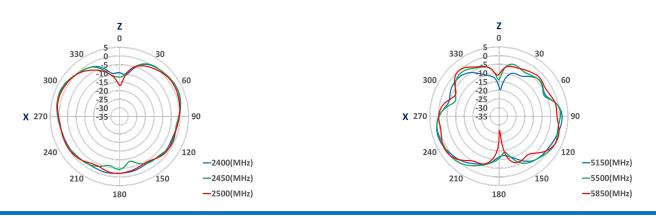


YZ - Plane





XZ - Plane





Revisions				
Rev	Description	Date	ECN	Approval
A	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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