

ST0129-30-401-A

Datasheet

Stick Antenna

Amphenol

2.4-2.5GHz & 5.15-5.85GHz

External / In-building

Features:

High performing Wi-Fi antenna with coaxial cable OD1.13mm 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	Omn	i	Linear		1W	50Ω		
Frequency (GHz)		2.4~2.5		5.15~5.825				
Return Loss (dB)		< -10			< -8			
Peak Gain (dBi)		2.6		2.2				
Average Gain (dB)		-1.5		-2.2				
Average Efficiency (%)		71		61				



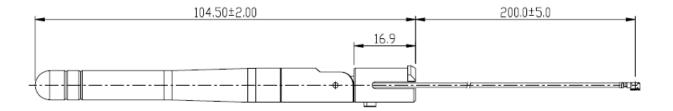
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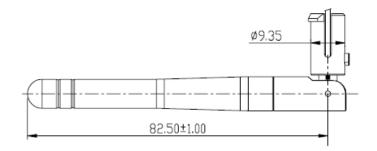
Mechanical Specifications				
Environmental				
Temperature Range (°C)	-40 to 65			
Humidity	Non-condensing 65°C 95% RH			
RoHS Compliant				

Part Number	Length (mm)	Weight (g)	Connector Type	Cable Type	Radome
ST0129-30-401-A	105	6.6	I-PEX MHF 1	Ø 1.13 mm	ABS

Mechanical Drawing

Unit : mm





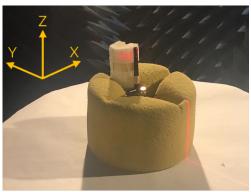
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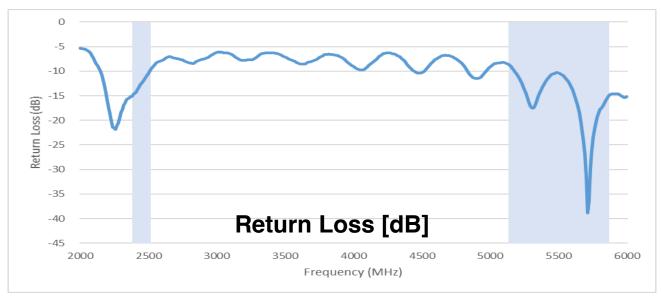
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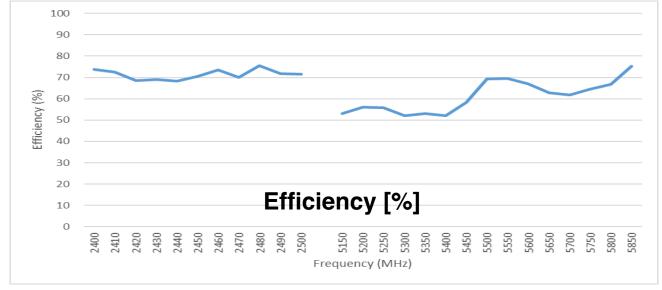
Charts In Free Space



Test setup, measurement performed in 3D anechoic chamber.



Blue background represents frequency response.



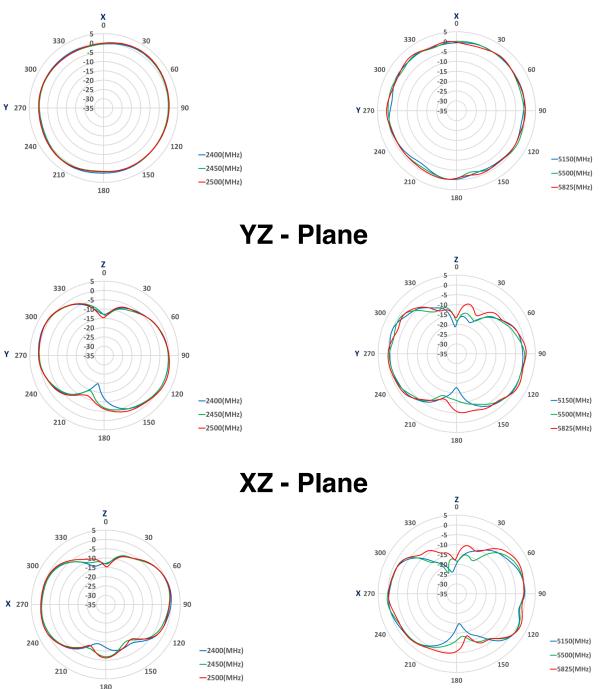
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Radiation Pattern - Free Space

XY - Plane





Revisions						
Rev	Description	Date	ECN	Approval		
A	Initial Release	2022-10-25	ST0129-30-401-A-RA00	ATC		
В	RF Performance update	2023-01-02	ST0129-30-401-A-RB00	ATC		

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