ST0228-30-003-A

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Datasheet

2.4-2.5GHz & 5.15-5.85GHz

External / Indoor

Features:

High performing Wi-Fi 6 antenna with SMA connector for indoor applications.



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



Stick Antenna



Electrical Specifications									
Antenna Characteristics									
Antenna Type	Radiation Patter	n Polari	ization	Max. Input Power		Impedance			
Stick Antenna	Omni	Lin	ear	1W		50Ω			
Frequency (GHz)		2.4~2.5		5.15~5.825					
Return Loss (dB)		< -10		<-10					
Peak Gain (dBi)		2.1		3.1					
Average Gain (dB)		-1.2		-1.5					
Efficiency (%)		76		70					

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Mechanical Specifications

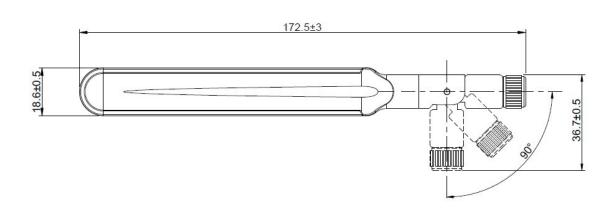
Mechanical Mechanical						
Dimension (mm)	172.5					
Connector Type	SMA (Plug)					
Material	ABS					
Weight (g)	17.2					

Environmental						
Temperature Range (°C)	-30 to 75					
Humidity	Non-condensing 65°C 95% RH					
RoHS Compliant						

Mechanical Drawing

Unit: mm

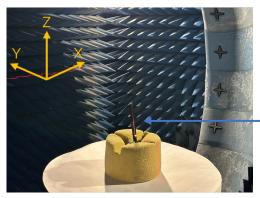




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Charts In Free Space

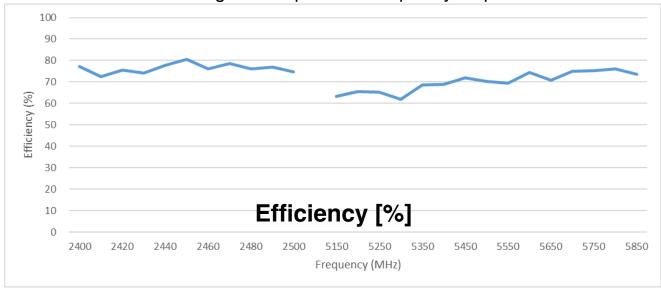


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Test setup, measurement performed in 3D anechoic chamber.



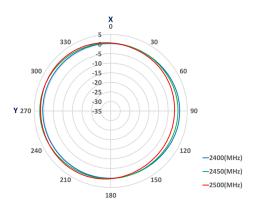
Blue background represents frequency response.

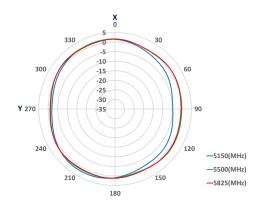


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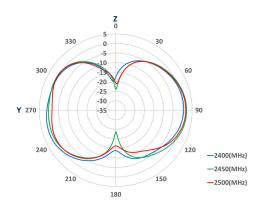
Radiation Pattern - Free Space

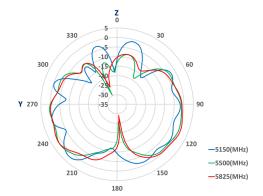
XY - Plane



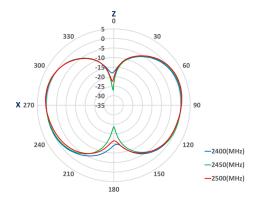


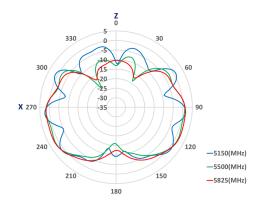
YZ - Plane





XZ - Plane





Wi-Fi 6

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Revisions							
Rev.	Description	Date	ECN	Approval			
Α	Initial Release	2023-02-21	ST0228-30-003-A-RA00	ATC			

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