Wi-Fi / Bluetooth

ST0126-30-501-A

Amphenol

Datasheet

2.4-2.5GHz

External / In-building



Stick Antenna

Features:

High performing in Zigbee & Bluetooth & Wi-Fi antenna with SMA for indoor applications, and certified with IP65.

Applications:

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

RoHS

Electrical Specifications

Antenna Characteristics

Antenna Type	Radiation Pattern	Polarization	Max. Input Power	Impedance
Stick Antenna	Omni	Linear	1W	50Ω

Frequency (GHz)	**2.4~2.5**
Return Loss (dB)	< -10
Peak Gain (dBi)	2.0
Average Gain (dB)	-1.2
Efficiency (%)	77

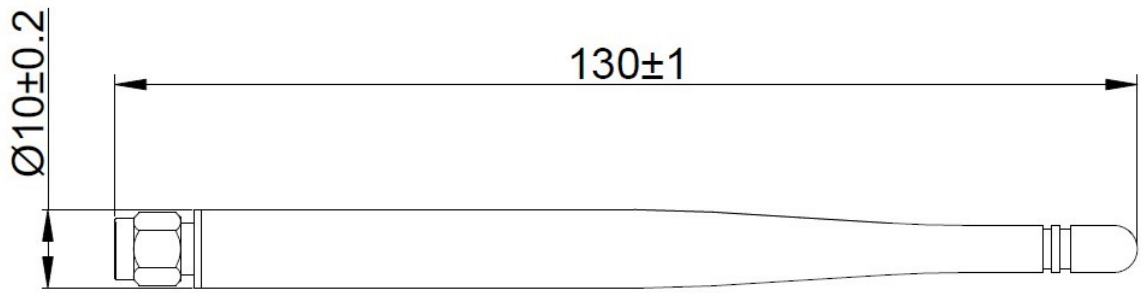
Mechanical Specifications

Mechanical	
Dimension (mm)	130.0
Connector Type	SMA (Plug)
Material	TPEE
Weight (g)	12.7

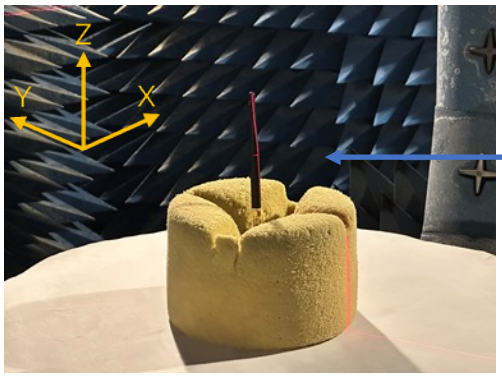
Environmental	
Temperature Range (˚C)	-20 to 65
IP Rating	IP65
RoHS Compliant	

Mechanical Drawing

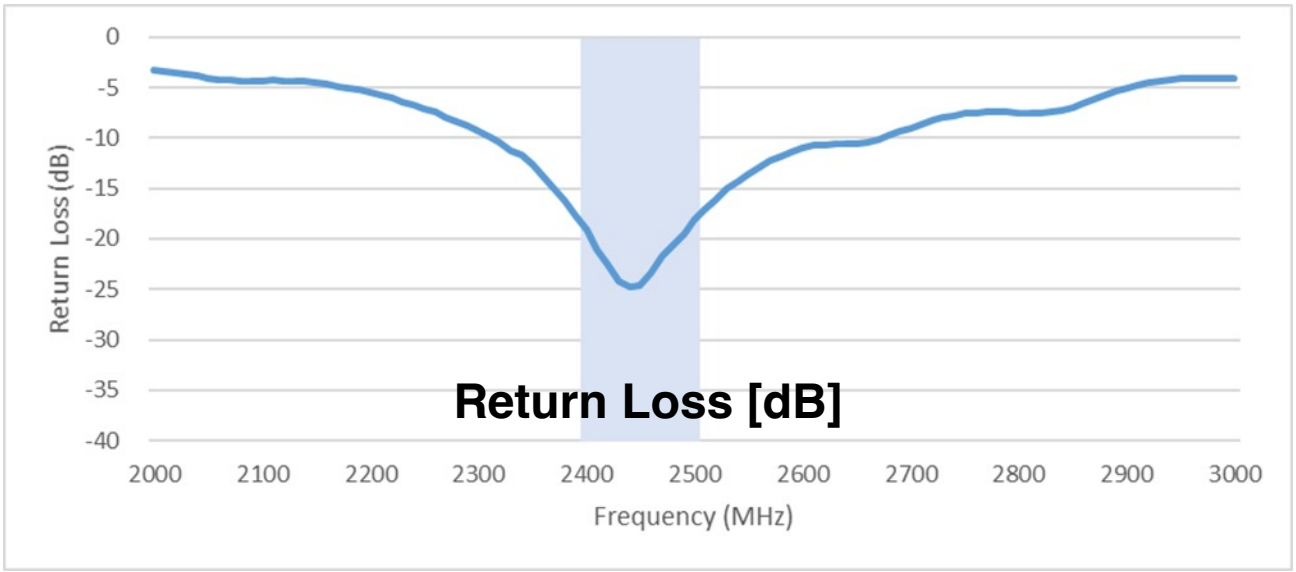
Unit : mm



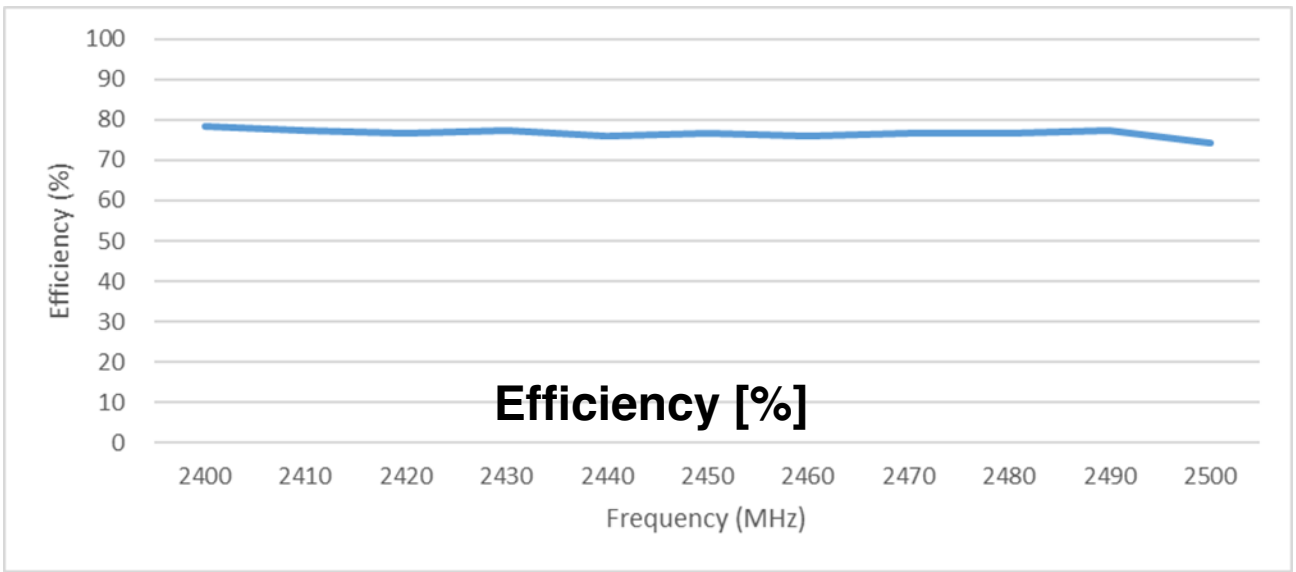
Charts In Free Space



Test setup, measurement performed in 3D anechoic chamber.

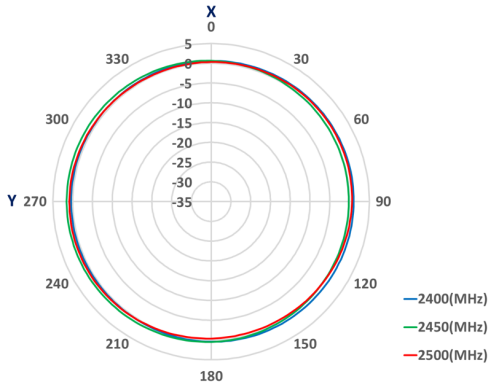


Blue background represents frequency response.

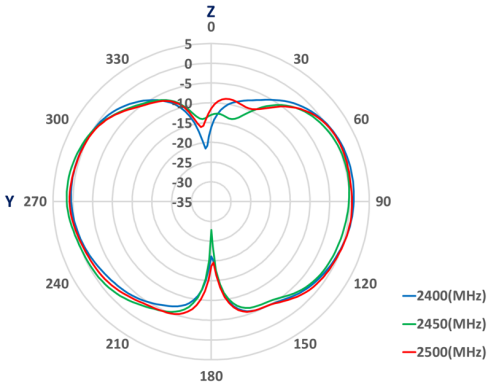


Radiation Pattern - Free Space

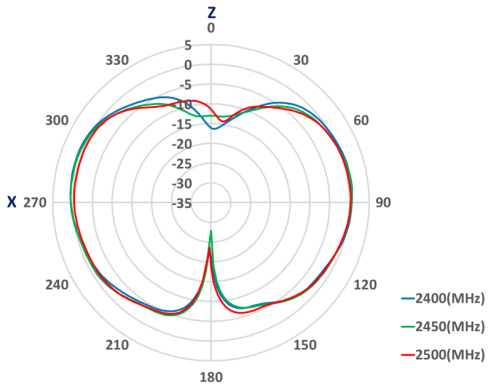
XY - Plane



YZ - Plane



XZ - Plane



Revisions				
Rev.	Description	Date	ECN	Approval
A	Initial Release	2023-03-22	ST0126-30-501-A-RA00	ATC

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