

### Datasheet

## 2.4-2.5GHz, 5.15-7.2GHz

### External / In-building



Stick Antenna

### Features:

High performing WiFi 6E with SMA/RP-SMA connector for indoor applications

### Applications:

- CPE – Router, Set-top boxes, Gateway
- IoT devices
- Wi-Fi 6E Mesh
- Smart Metering
- Robotics



## Electrical Specifications

### Antenna Characteristics

Antenna Type	Radiation Pattern	Polarization	Max. Input Power	Impedance
Stick Antenna	Omni	Linear	5W	50Ω

Frequency (GHz)	2.4 – 2.5	5.15 – 5.85	5.925 – 7.125
Return Loss (dB)	< -10	< -10	< -10
Gain, Peak / Average (dB)	2.0 / -2.4	4.1 / -1.1	5.1 / -1.1
Efficiency / Average (%)	57	79	77

**Mechanical Specifications**

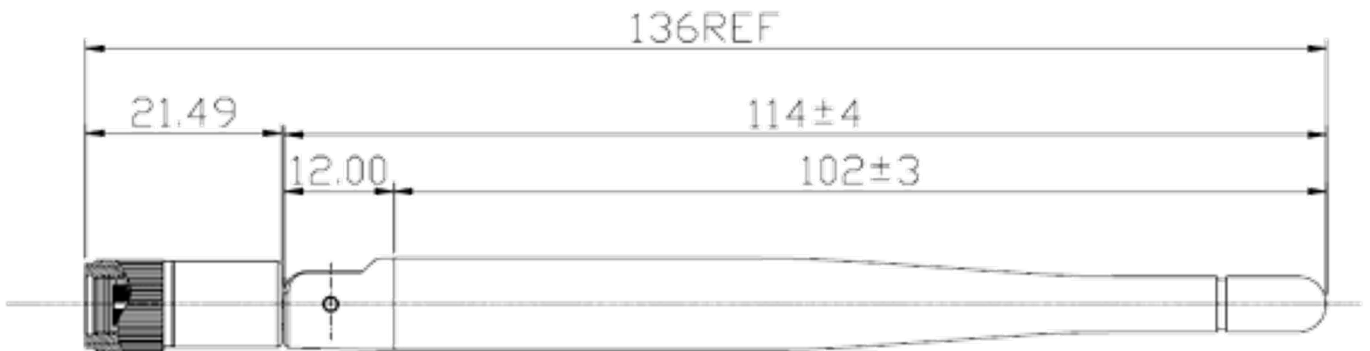
**Environmental**

Temperature Range (°C)	-40 to 85
Humidity	Non-condensing 65°C 95% RH

RoHS Compliant

Part Number	Length (mm)	Weight (g)	Connector Type	Radome
ST1226-30-001-A	136	8.8	SMA Plug	TPEE / PC+PBT
ST1226-30-501-A	136	8.8	RP-SMA Plug	TPEE / PC+PBT

**Mechanical Drawing**



SMA Plug

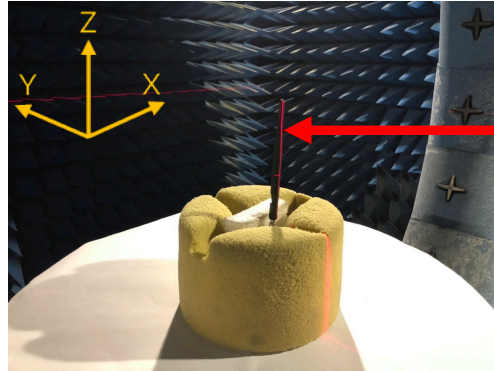
ST1226-30-001-A



RP-SMA Plug

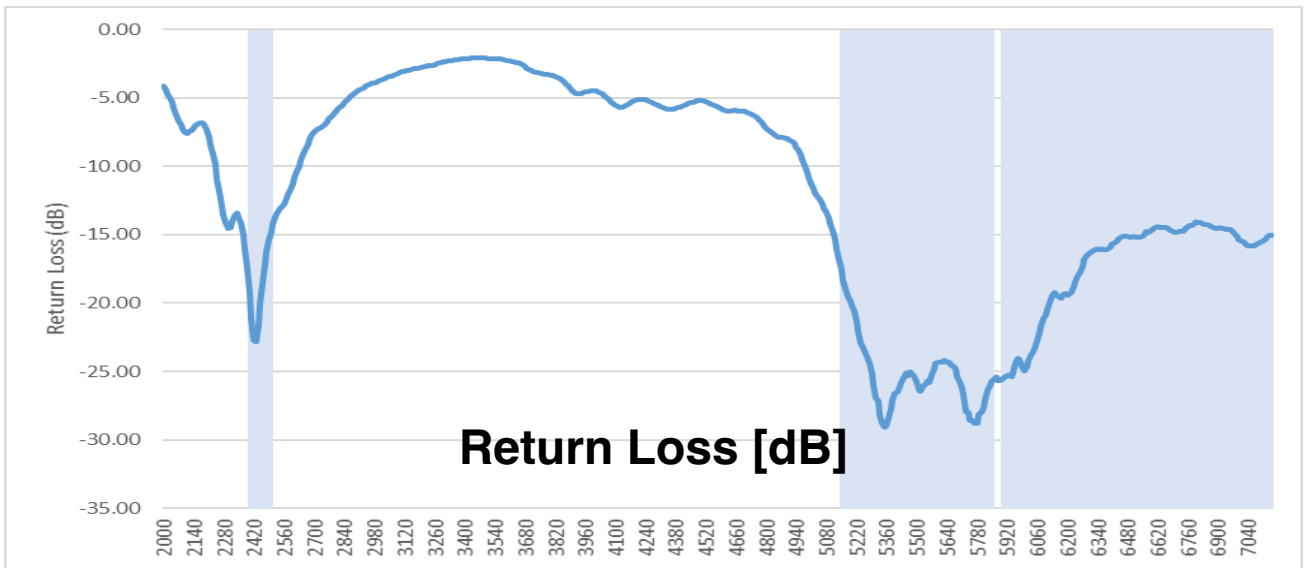
ST1226-30-501-A

### Charts in Free Space

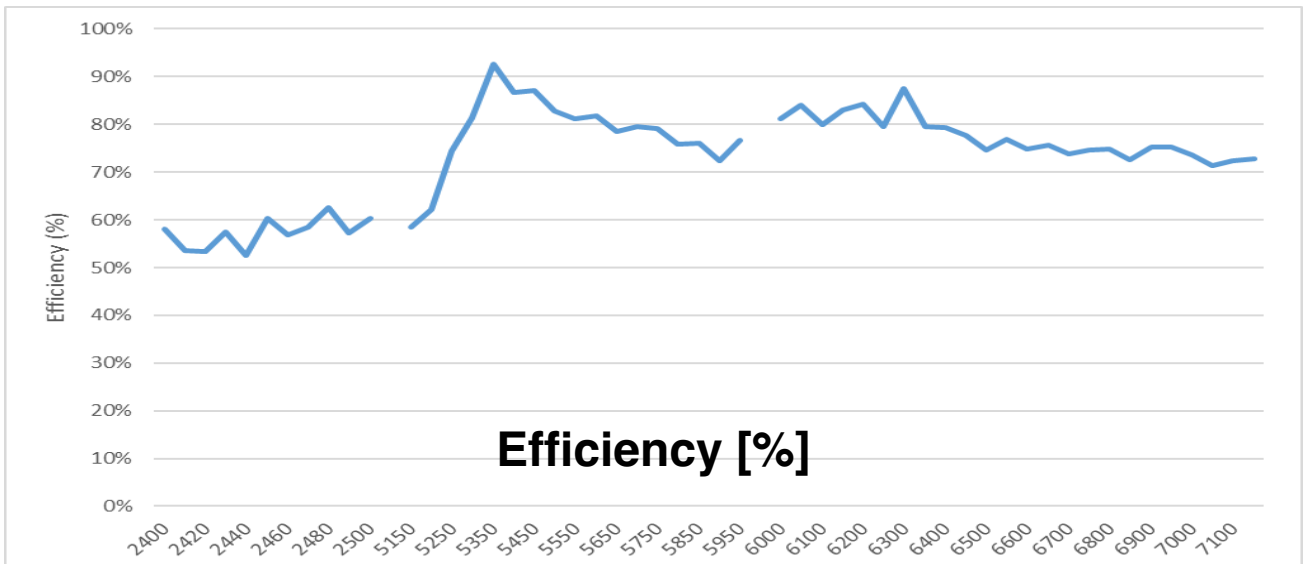


ST1226-30-501-A

Test setup, measurement performed in 3D Anechoic Chamber

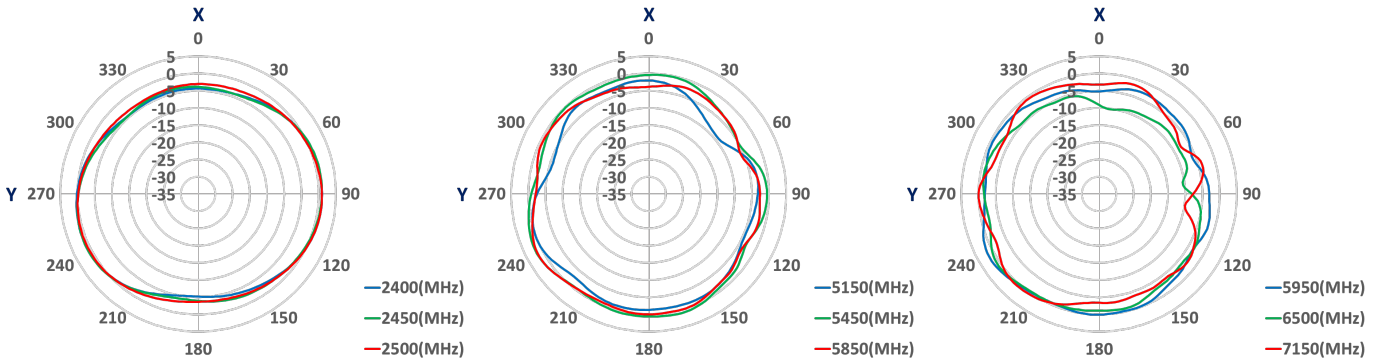


Blue background represents frequency response.

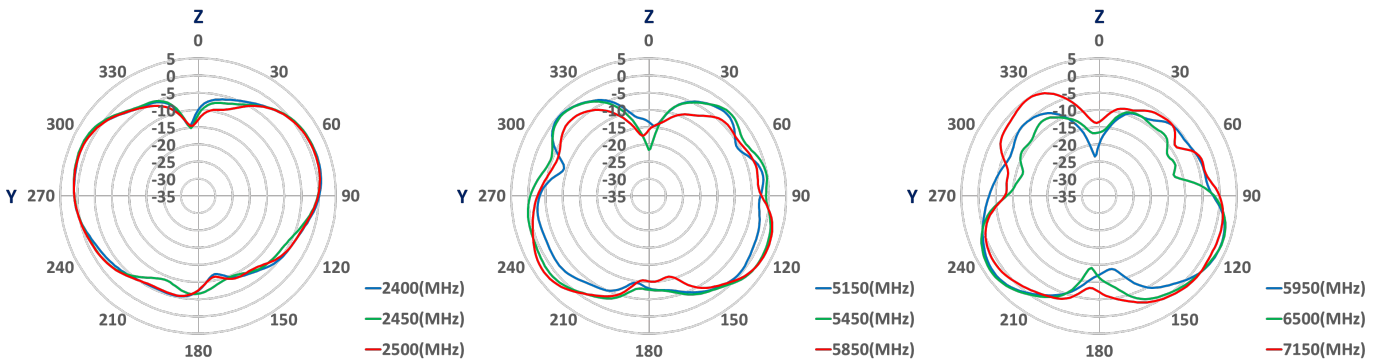


**Radiation Pattern - Free Space**

**XY - Plane**



**YZ - Plane**



**XZ - Plane**

