

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

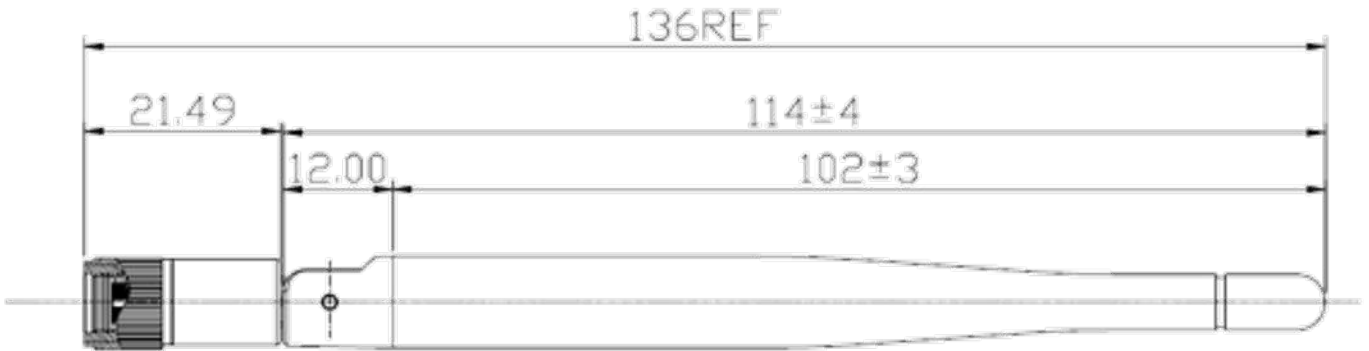
Environmental

| | |
|------------------------|----------------------------|
| 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

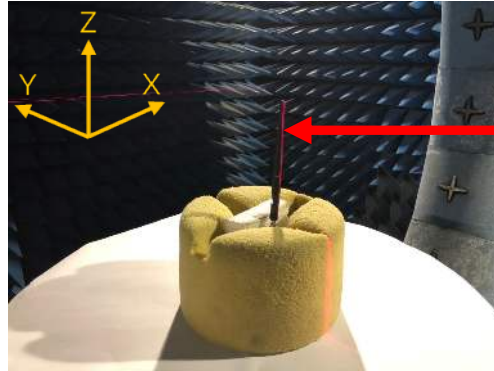
ST1226-30-001-A



RP-SMA Plug

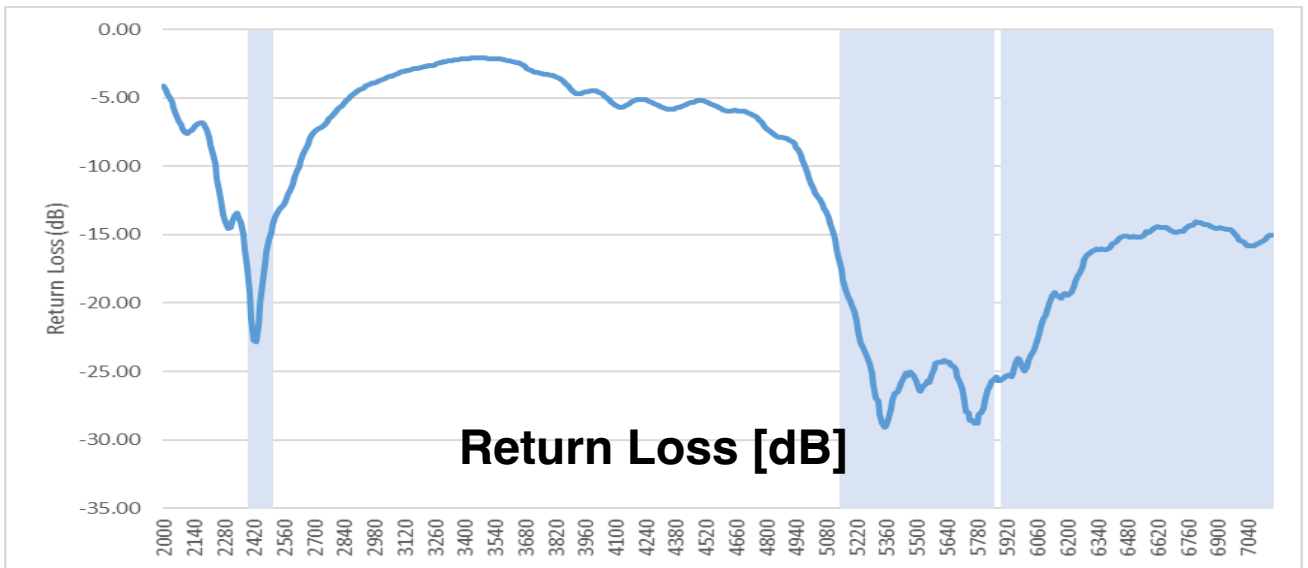
ST1226-30-501-A

Charts in Free Space

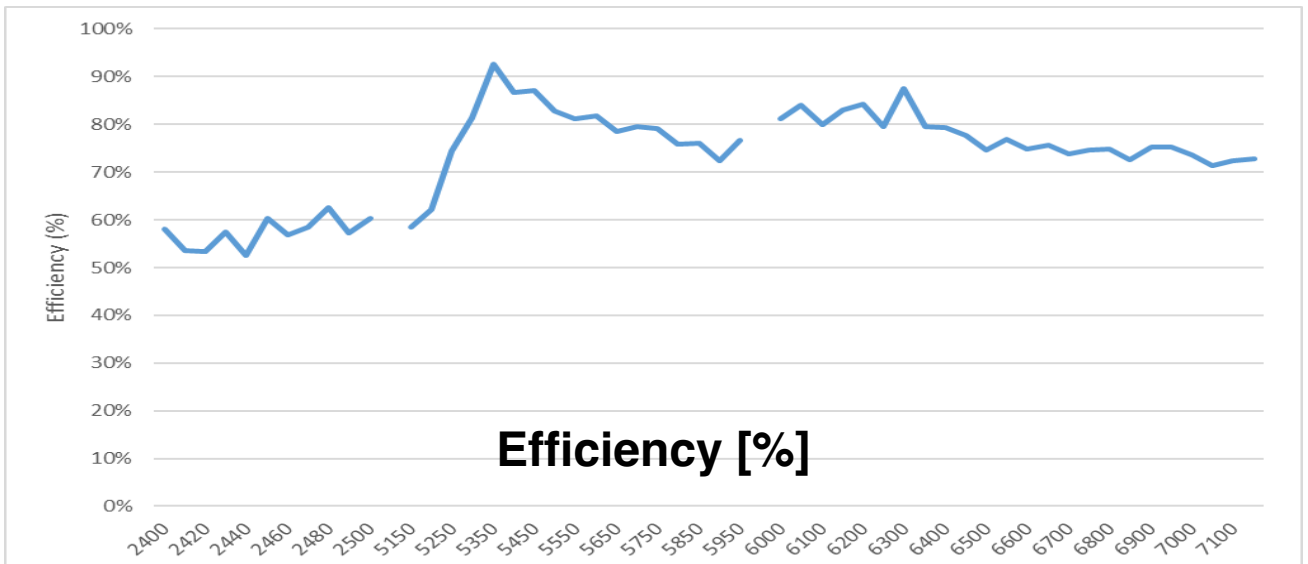


ST1226-30-501-A

Test setup, measurement performed in 3D Anechoic Chamber

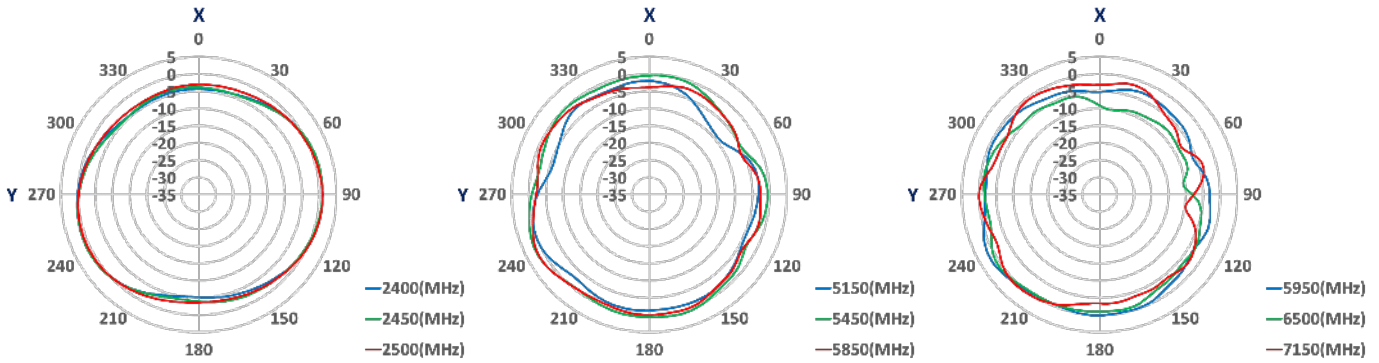


Blue background represents frequency response.

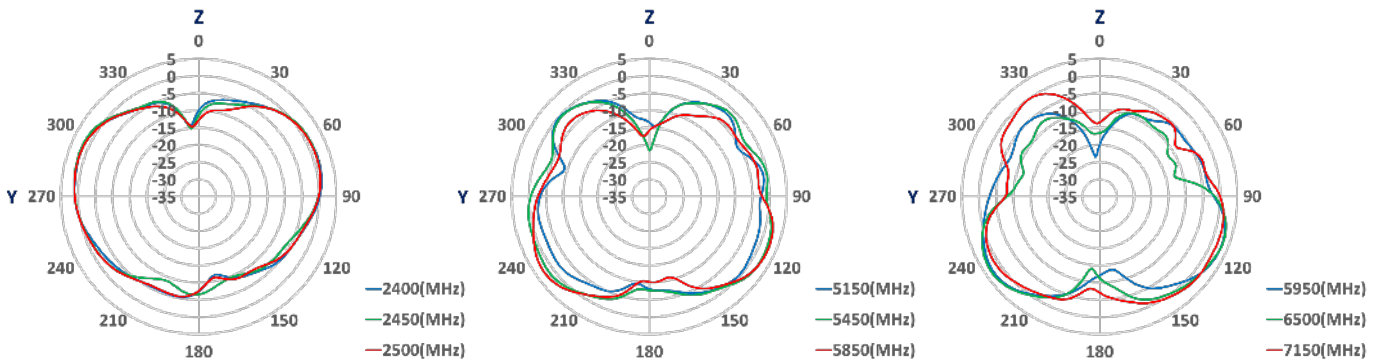


Radiation Pattern - Free Space

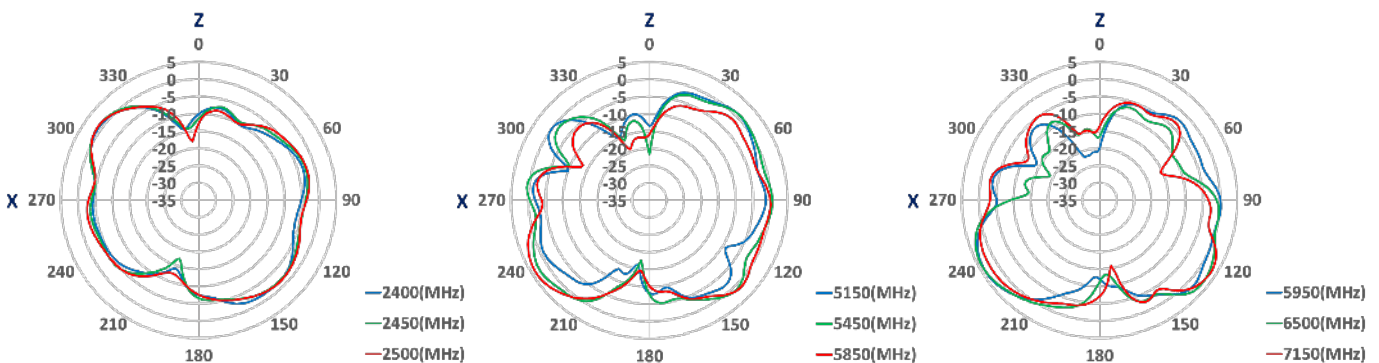
XY - Plane



YZ - Plane



XZ - Plane



Revisions

| Rev | Description | Date | ECN | Approval |
|-----|-----------------------|------------|----------------------|----------|
| A | Initial Release | 2022-10-25 | ST1226-30-X01-A-RA00 | ATC |
| B | RF Performance update | 2023-02-25 | ST1226-30-X01-A-RB00 | ATC |

NOTICE - These drawings, specifications, or other data (1) are, and remain the property of Amphenol corp. (2) must be returned upon request; and (3) are confidential and not to be disclosed to any person other than those to whom they are given by Amphenol Corp. the furnishing of these drawings, specifications, or other data by Amphenol Corp., or to any other person to anyone for any purpose is not to be regarded by implication or otherwise in any manner licensing, granting rights to permitting such holder or any other person to manufacture, use or sell any product, process or design, patented or otherwise, that may in any way be related to or disclosed by said drawings, specifications, or other data.