



Product Name: Omni-Directional WiFi Terminal Antenna

Part Number: TA-S10B-A-WE02

Doc ID: WI-RD-D-151 V1.0

Feature:

- WiFi Dual Bands 2.4/5.8GHz Supporting
- Omni-Directional Coverage
- 90 Degree Hinged Connector
- Straight Length: 108mm
- Connector: RP-SMA(M)

Application:

- Wireless LAN Application
- IoT Device Application
- Smart Community Application
- Apply for Bluetooth and Wireless LAN Device

Omni-Directional WiFi Terminal Antenna

MODEL: TA-S10B-A-WE02

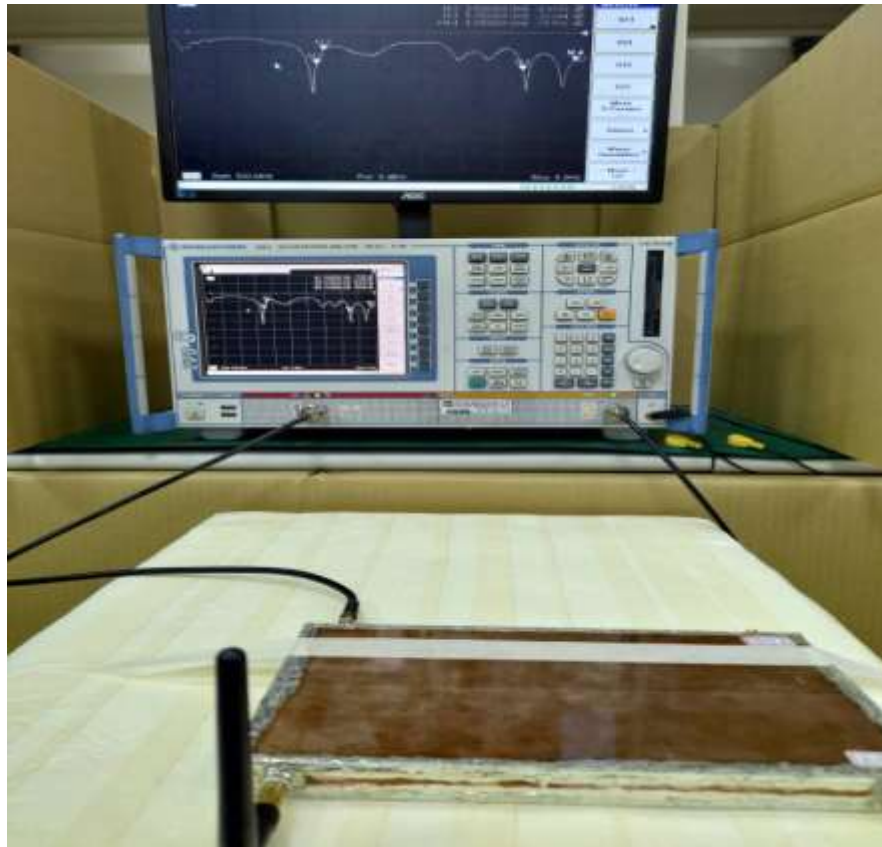
I. Specifications:

| Category | WiFi Specifications | | | | | | |
|------------------------------|------------------------------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz) | 2400 | 2450 | 2500 | 5150 | 5350 | 5725 | 5850 |
| Efficiency(%) | | | | | | | |
| TA-S10B-A-WE02 | 95.50 | 97.05 | 97.05 | 84.53 | 79.43 | 83.75 | 73.28 |
| Average Gain(dBi) | | | | | | | |
| TA-S10B-A-WE02 | -0.20 | -0.13 | -0.13 | -0.73 | -1.00 | -0.77 | -1.35 |
| Peak Gain(dBi) | | | | | | | |
| TA-S10B-A-WE02 | 4.94 | 5.12 | 5.16 | 4.87 | 3.44 | 5.12 | 4.93 |
| Return loss | <-10 | | | | | | |
| V.S.W.R | 1.92:1 Max | | | | | | |
| Radiation Pattern | Omni Directional | | | | | | |
| Polarization | Vertical | | | | | | |
| Impedance | 50 Ω | | | | | | |
| Category | Mechanical Specifications | | | | | | |
| Antenna Length | 108mm | | | | | | |
| Antenna Weight | 9g | | | | | | |
| Antenna Cover | TPU Black | | | | | | |
| Connector | RP-SMA(M) | | | | | | |
| Category | Environmental Specifications | | | | | | |
| Operating Temperature | -30 ~ +60℃ | | | | | | |
| Storage Temperature | -30 ~ +70℃ | | | | | | |

***Test Condition: 215 x 125 mm (Ground Plane Dimension)**

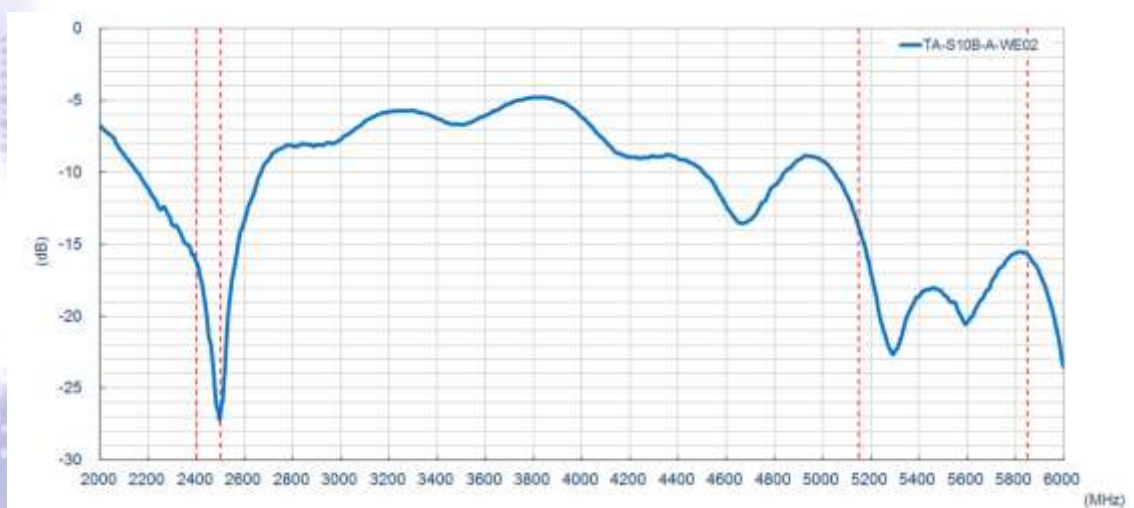
I. Antenna Technical Parameters:

Antenna measurement setup

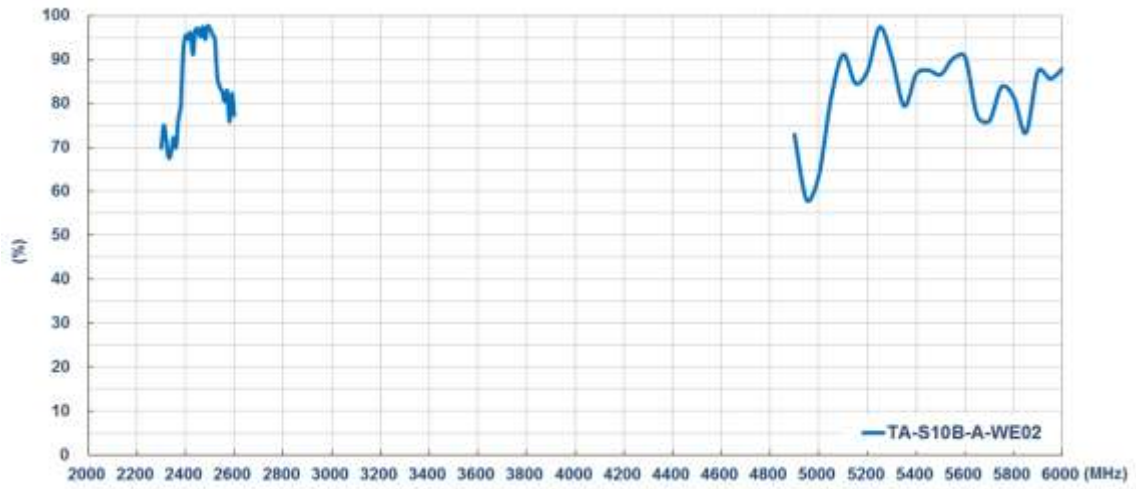


© San Jose Technology, Inc.
All specifications subject to change without notice.

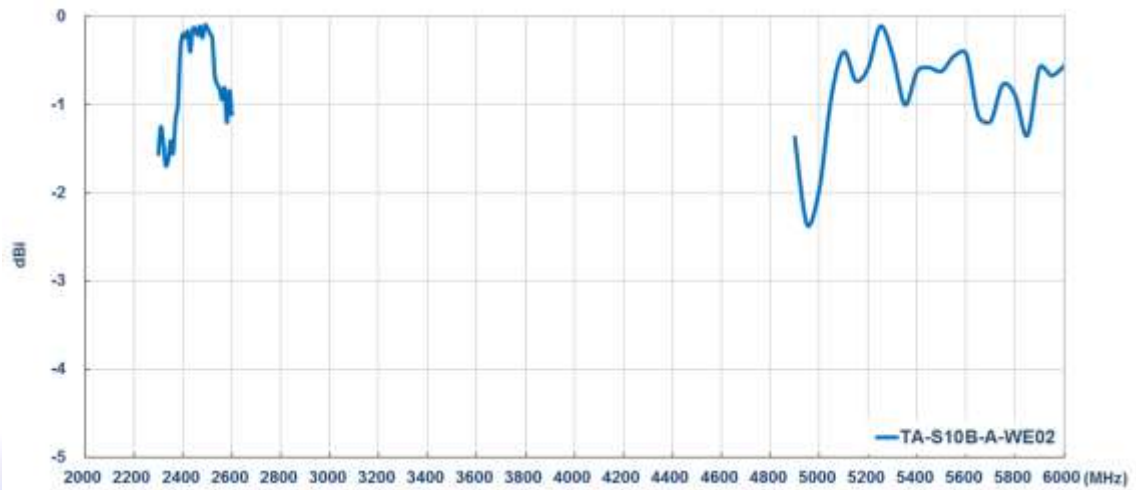
S-parameters:



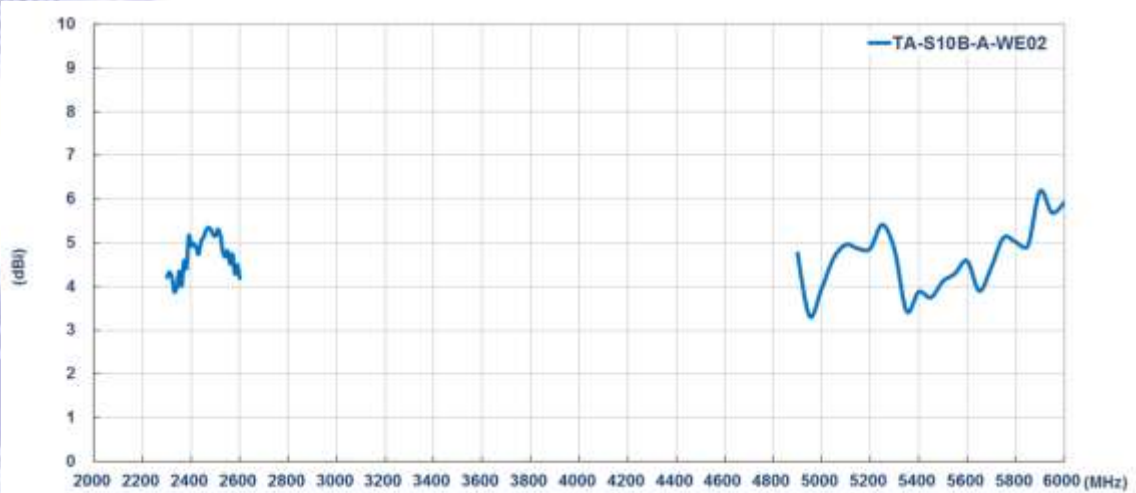
Efficiency:



Average Gain:

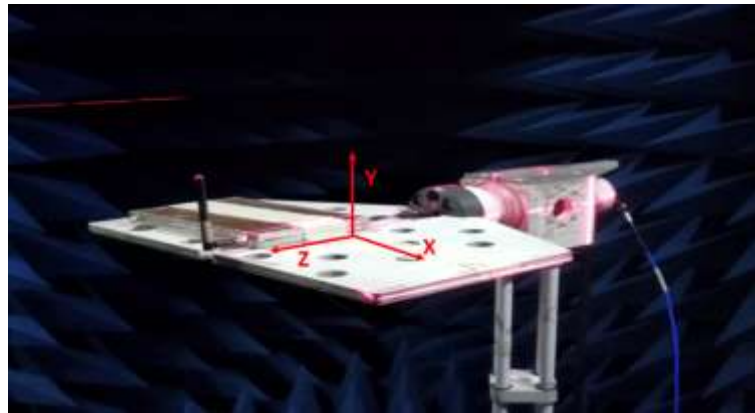


Peak Gain:



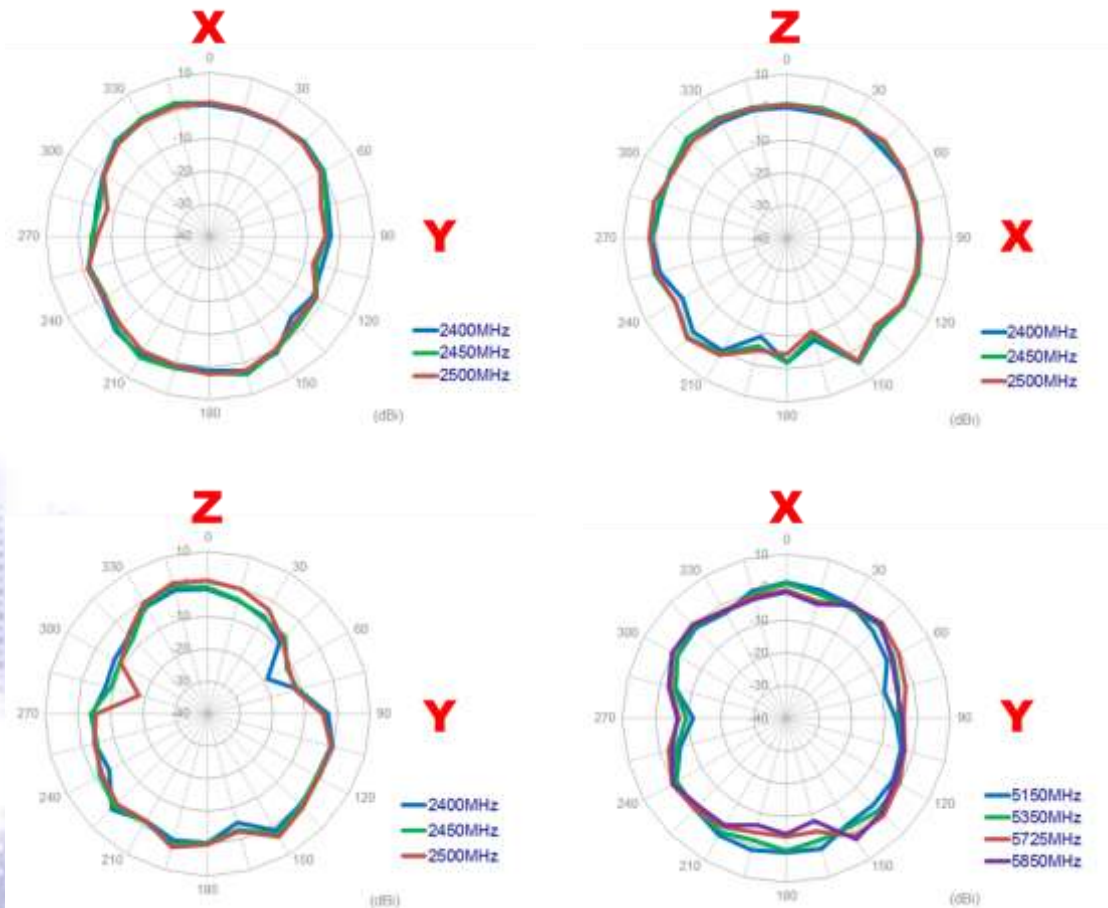
© San Jose Technology, Inc.
All specifications subject to change without notice.

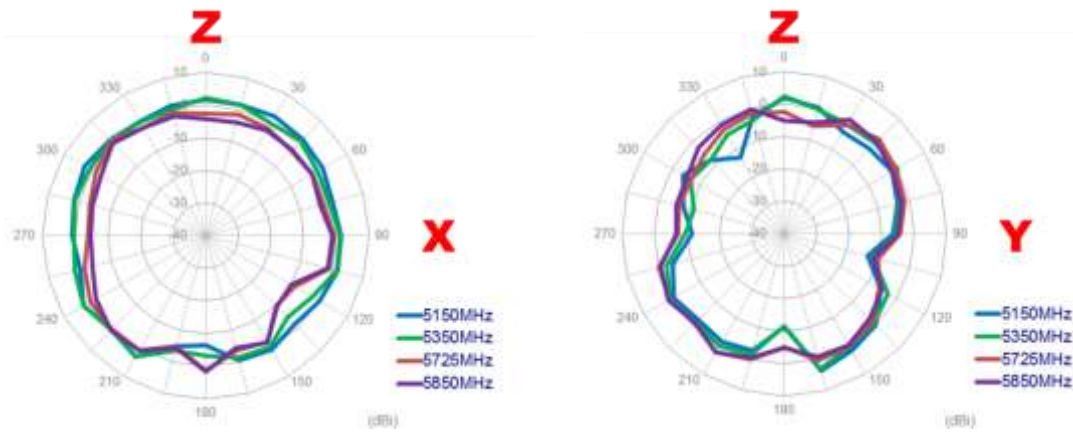
II. Antenna Radiation Pattern Measurement:



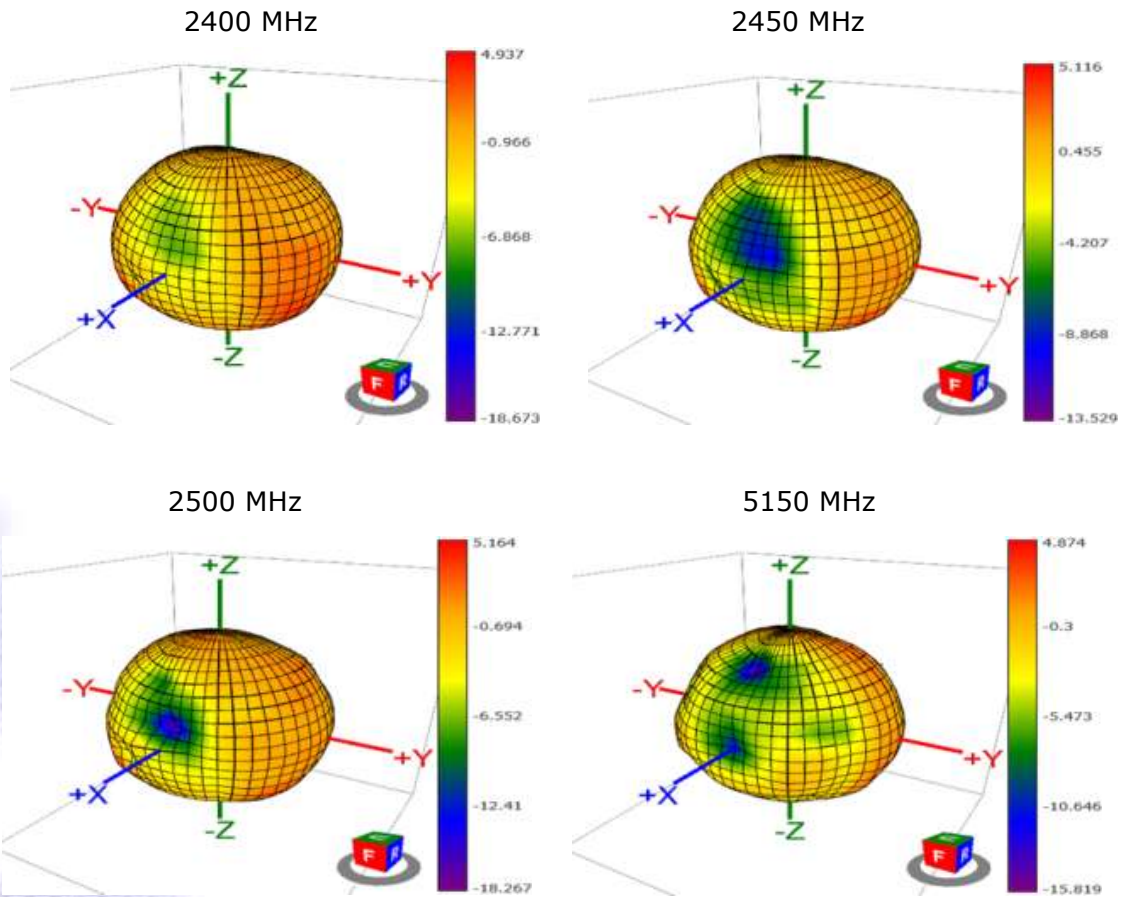
© San Jose Technology, Inc.
All specifications subject to change without notice.

2D Radiation Pattern

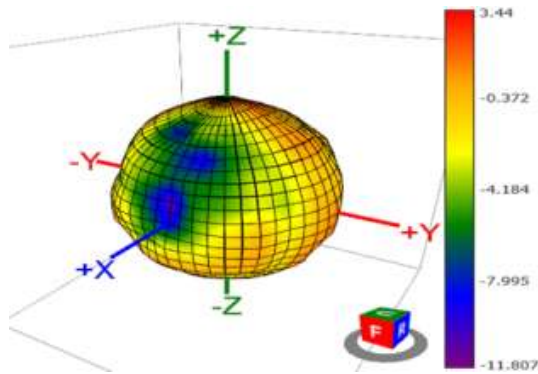




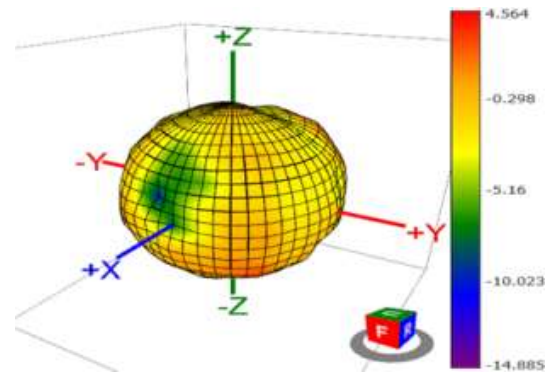
3D Radiation Pattern



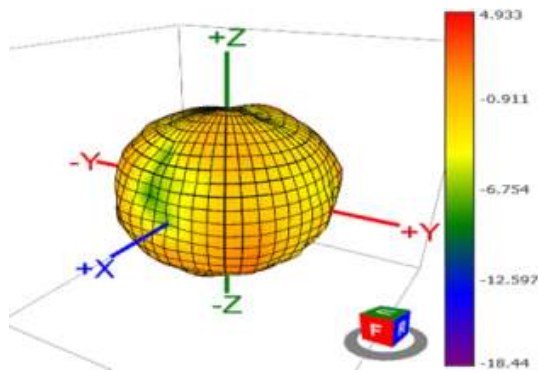
5350 MHz



5725 MHz



5850 MHz



© San Jose Technology, Inc.
All specifications subject to change without notice.

III.Mechanical Drawing (Unit:mm):

