



**Product Name:** Omni-Directional WiFi Terminal Antenna

**Part Number:** TA-S10W-A-WE01

**Features:**

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

**Applications:**

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

# Omni-Directional WiFi Terminal Antenna

**MODEL: TA-S10W-A-WE01**

Rev.A

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## I. Specifications:

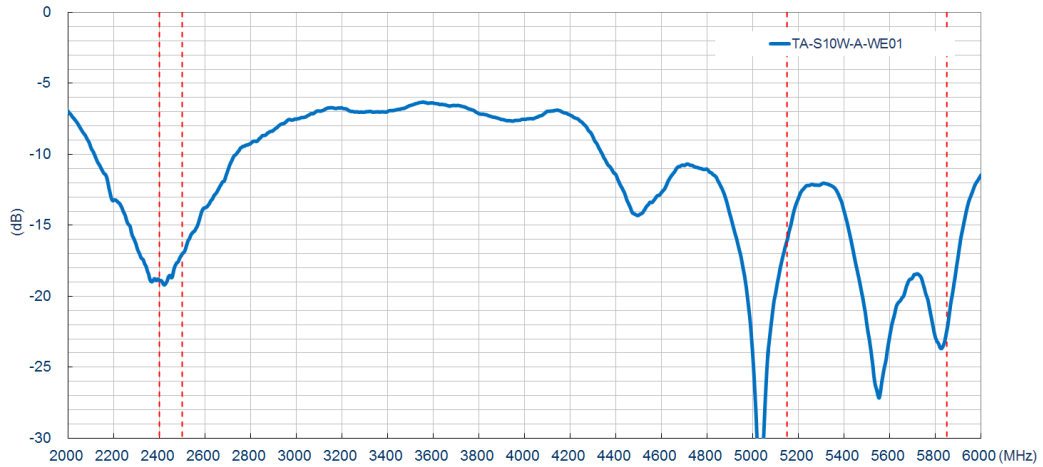
Items	WiFi Specifications						
<b>Frequencies (MHz)</b>	2400	2450	2500	5150	5350	5725	5850
<b>Efficiency (%)</b>	75.68	78.16	71.12	82.04	67.14	76.74	66.53
<b>Average Gain (dBi)</b>	-1.21	-1.07	-1.48	-0.86	-1.73	-1.15	-1.77
<b>Peak Gain (dBi)</b>	4.64	4.65	3.70	5.60	4.02	5.71	5.13
<b>Return loss</b>	< -10						
<b>V.S.W.R</b>	< 2						
<b>Radiation Pattern</b>	Omni Directional						
<b>Polarization</b>	Vertical						
<b>Impedance (Ω)</b>	50						
<b>Mechanical Specifications</b>							
<b>Antenna Length (mm)</b>	108						
<b>Antenna Weight (g)</b>	9						
<b>Antenna Cover</b>	TPU Black						
<b>Connector</b>	RP-SMA(M)						
<b>Environmental Conditions</b>							
<b>Operating Temperature (°C)</b>	-40°C ~ +85°C						
<b>Storage Temperature (°C)</b>	-40°C ~ +85°C						
<b>Relative Humidity</b>	95% non-condensing						

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

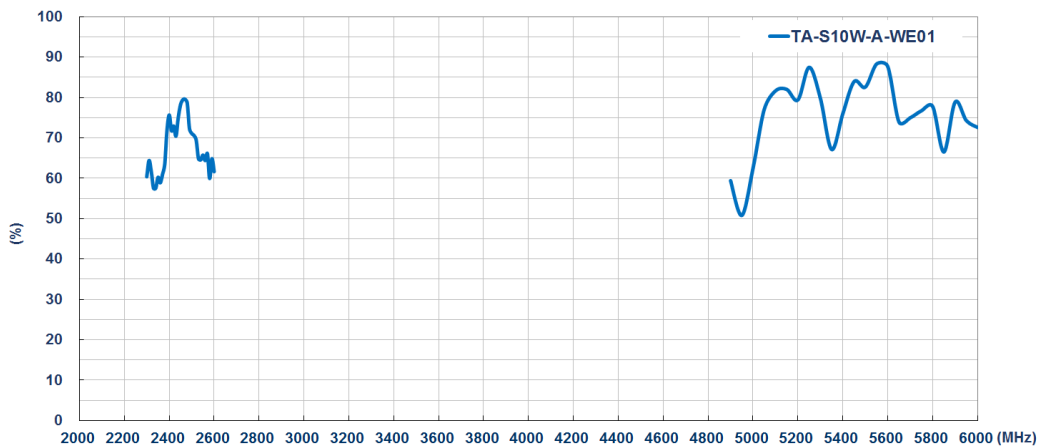
## II. Antenna Technical Parameters:

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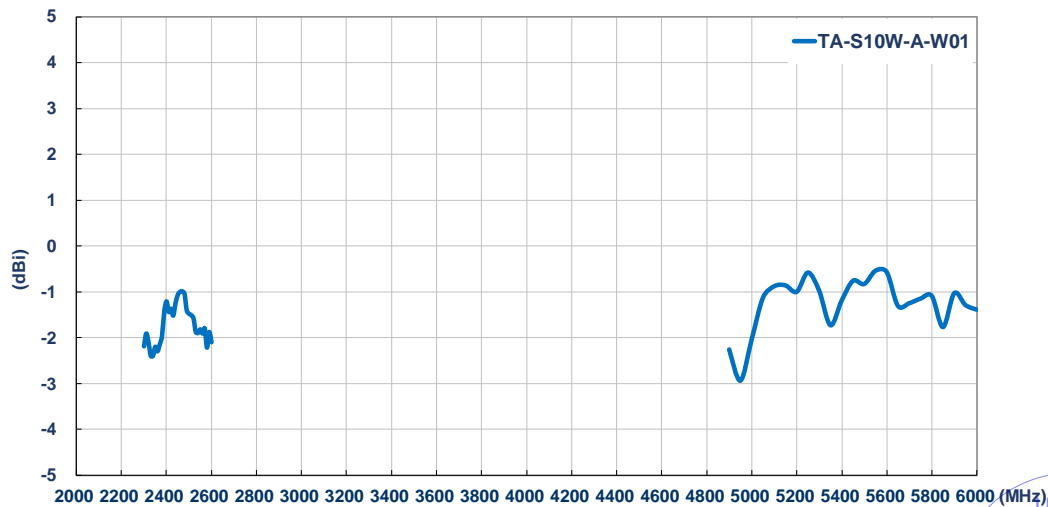
S11 (dB):

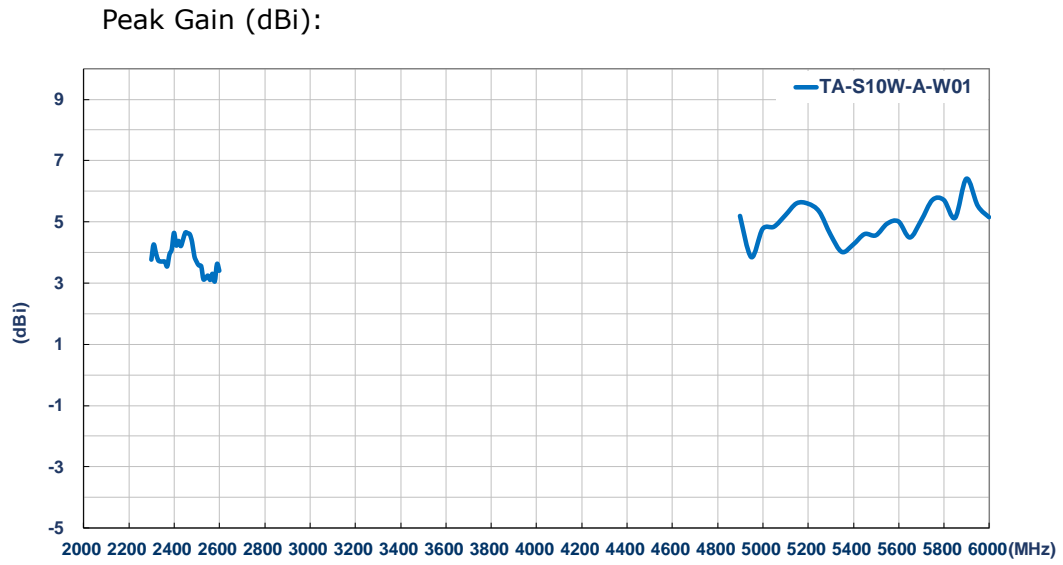


Efficiency (%)



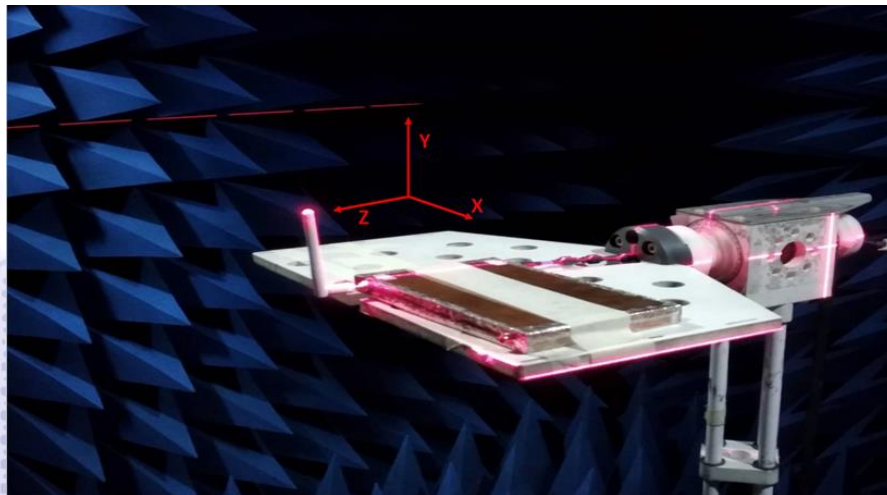
Average Gain (dBi):



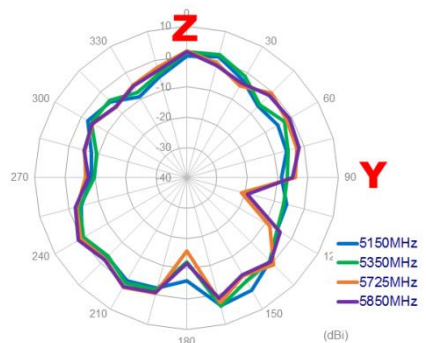
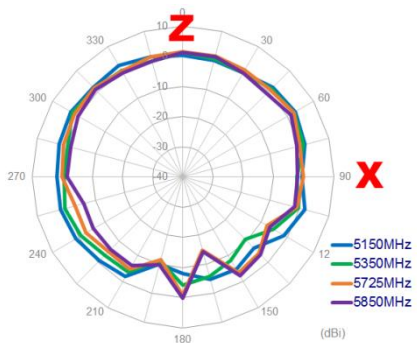
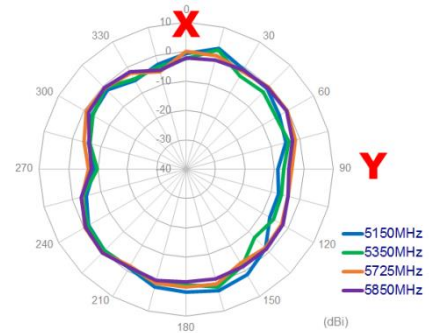
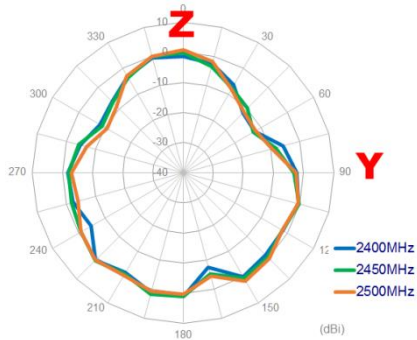
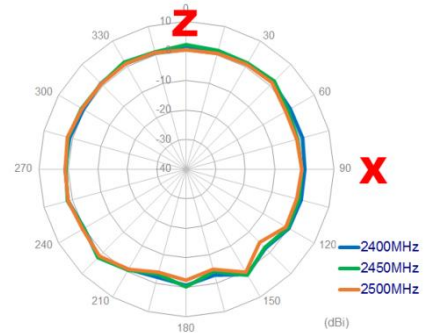
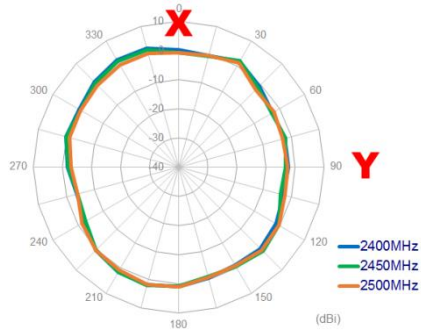


### III. Antenna Radiation Pattern Measurement:

The antenna radiation patterns are measured in 3D Anechoic Chamber. The measurement setup is as show below,



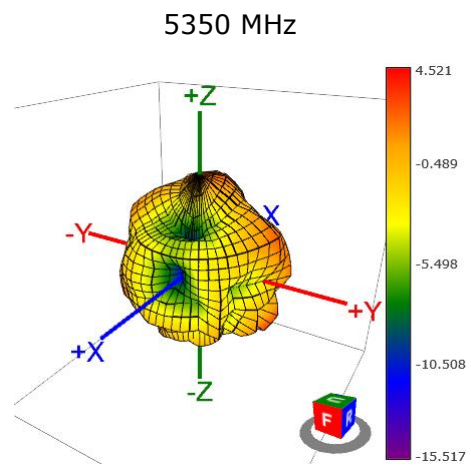
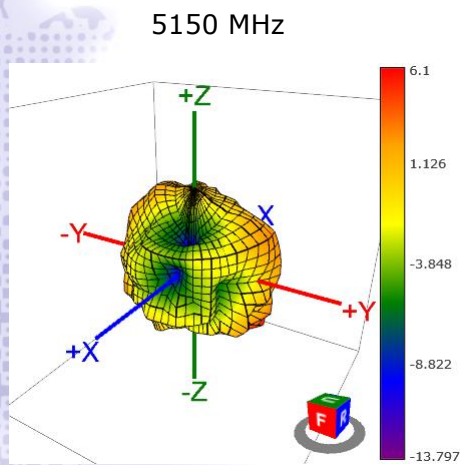
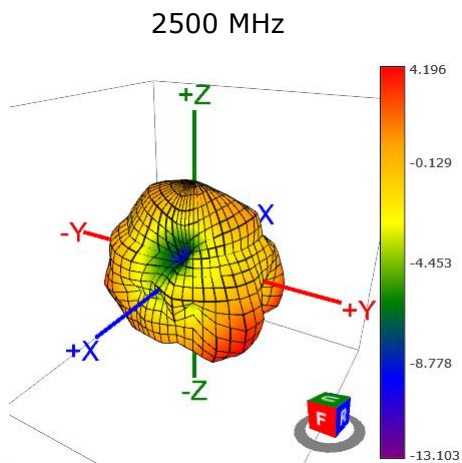
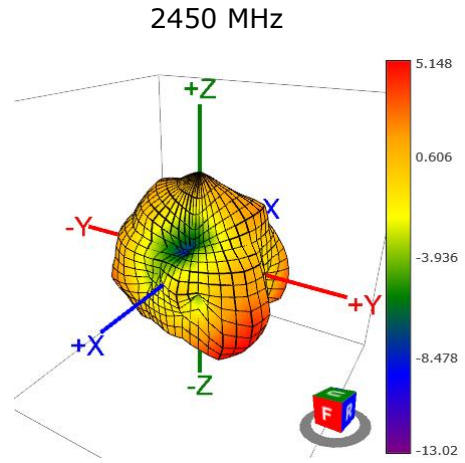
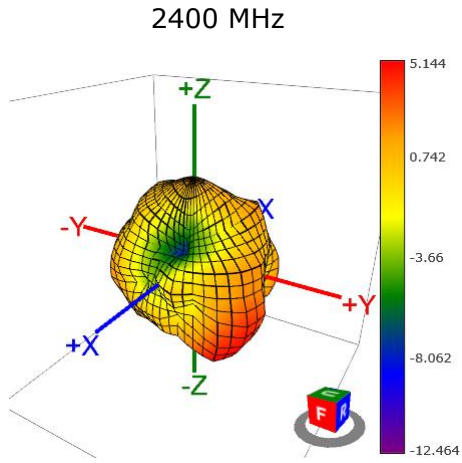
### A) 2D Radiation Pattern



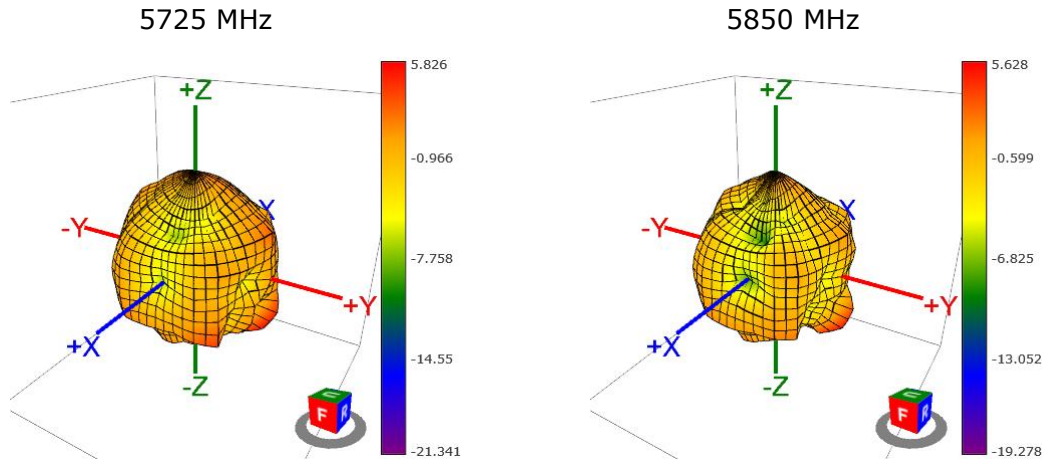
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### B) 3D Radiation Pattern



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#### IV. Mechanical Drawing (Unit:mm):

