



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

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

**Doc ID:** WI-RD-D-149 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-S10W-A-WE01**

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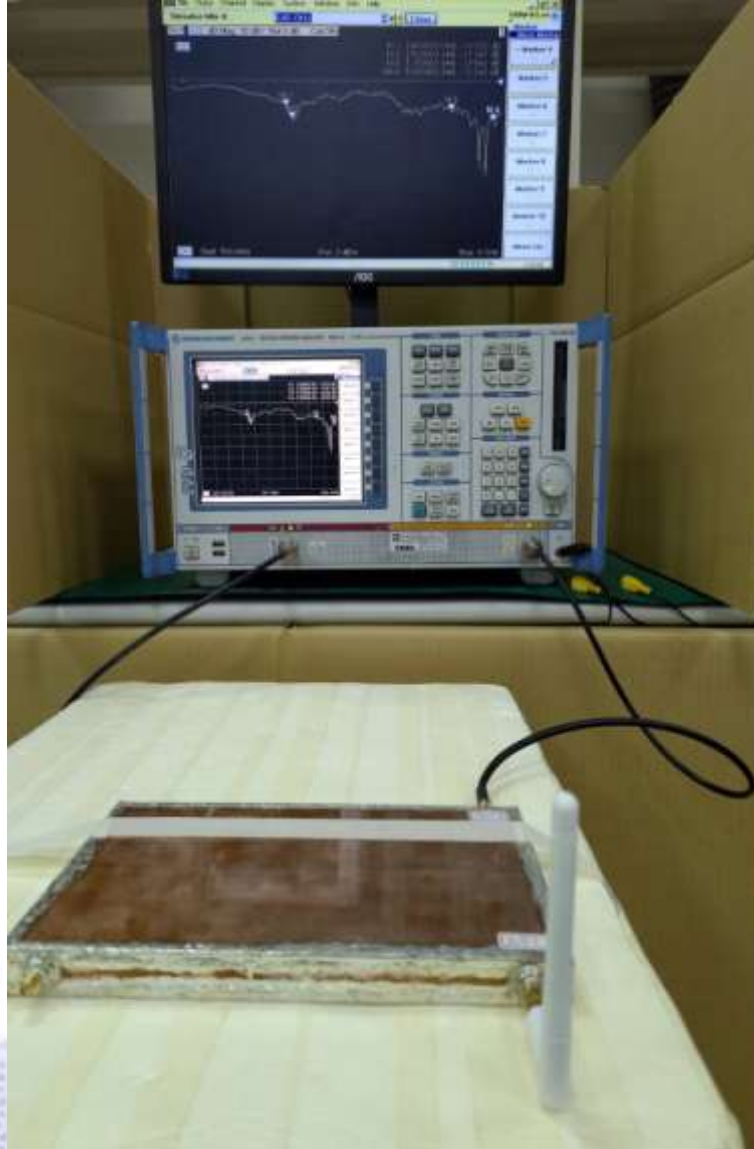
## I. Specifications:

Category	WiFi Specifications						
<b>Frequency (MHz)</b>	2400	2450	2500	5150	5350	5725	5850
Efficiency(%)							
<b>TA-S10W</b>	75.68	78.16	71.12	82.04	67.14	76.74	66.53
Average Gain(dBi)							
<b>TA-S10W</b>	-1.21	-1.07	-1.48	-0.86	-1.73	-1.15	-1.77
Peak Gain(dBi)							
<b>TA-S10W</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</b>	50 Ω						
Category	Mechanical Specifications						
<b>Antenna Length</b>	108mm						
<b>Antenna Weight</b>	9g						
<b>Antenna Cover</b>	TPU Black						
<b>Connector</b>	RP-SMA(M)						
Category	Environmental Specifications						
<b>Operating Temperature</b>	-40°C ~ +85°C						
<b>Storage Temperature</b>	-40°C ~ +85°C						

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

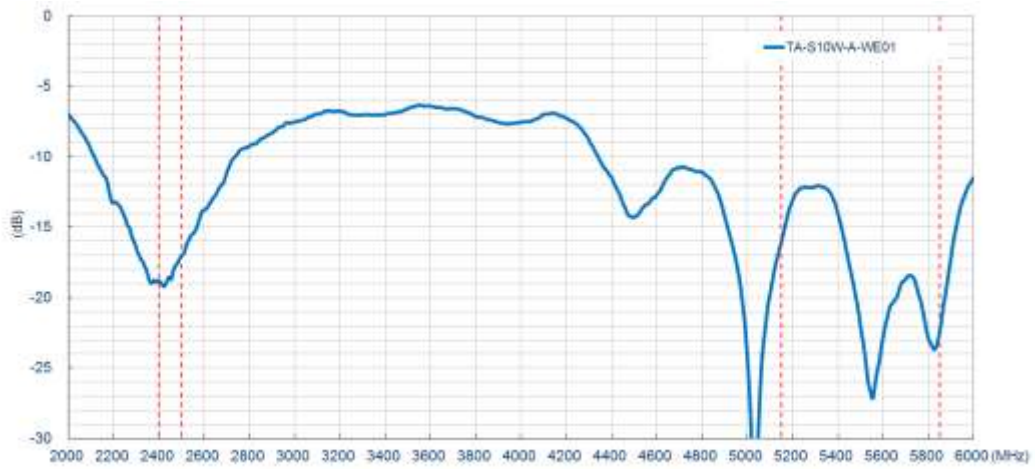
## II. Antenna Technical Parameters:

Antenna measurement setup

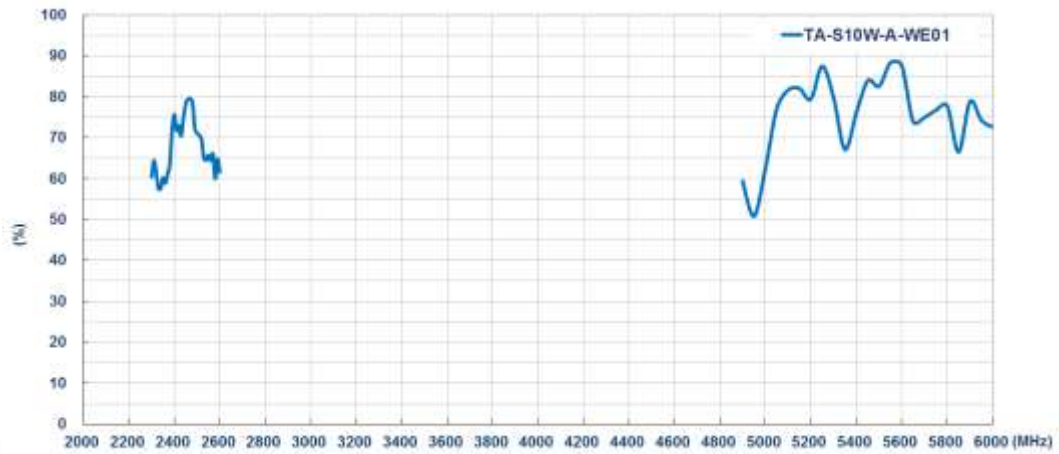


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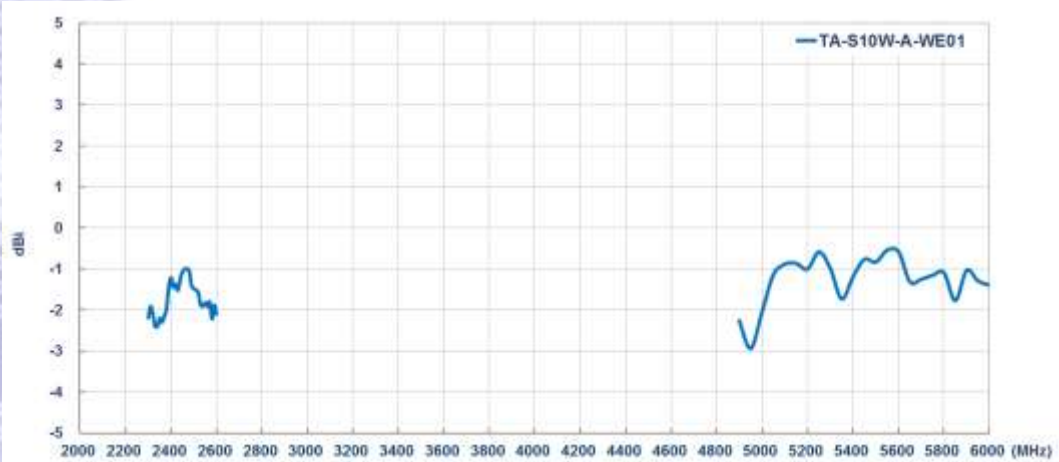
S-parameters:



Efficiency:

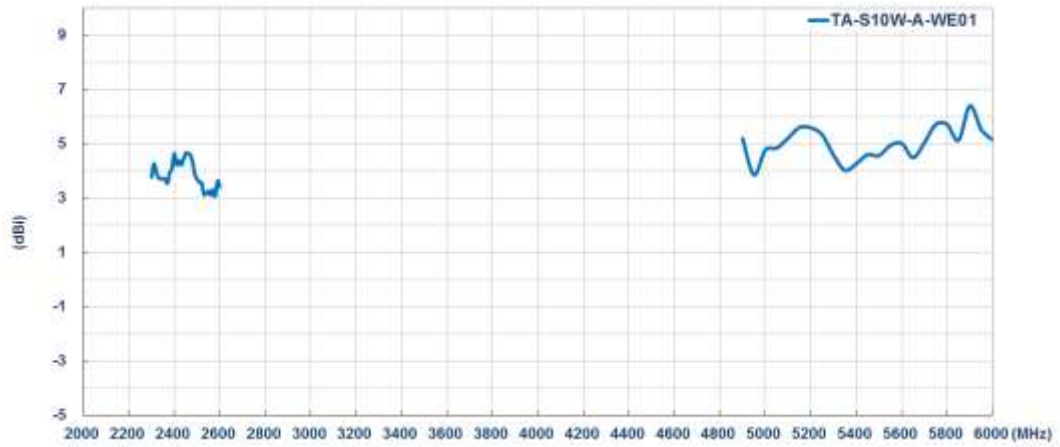


Average Gain:



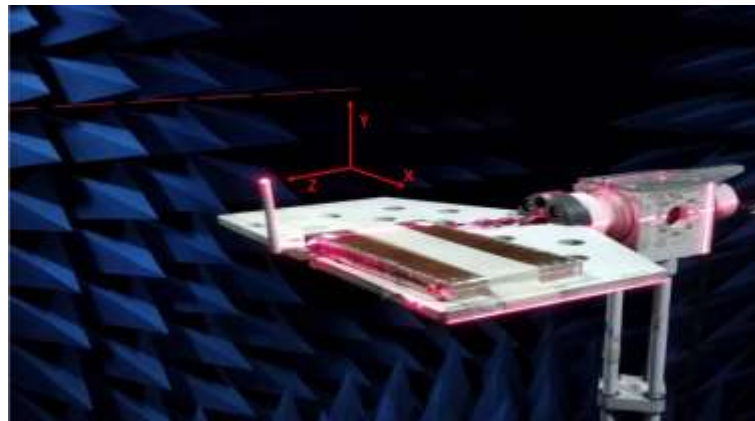
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Peak Gain:

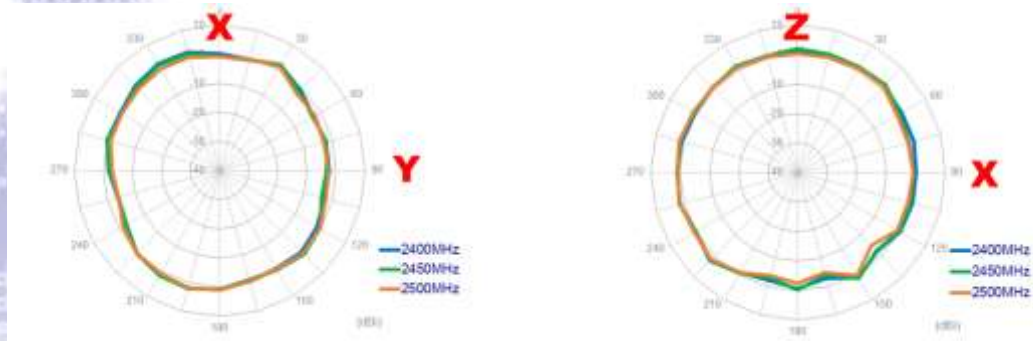


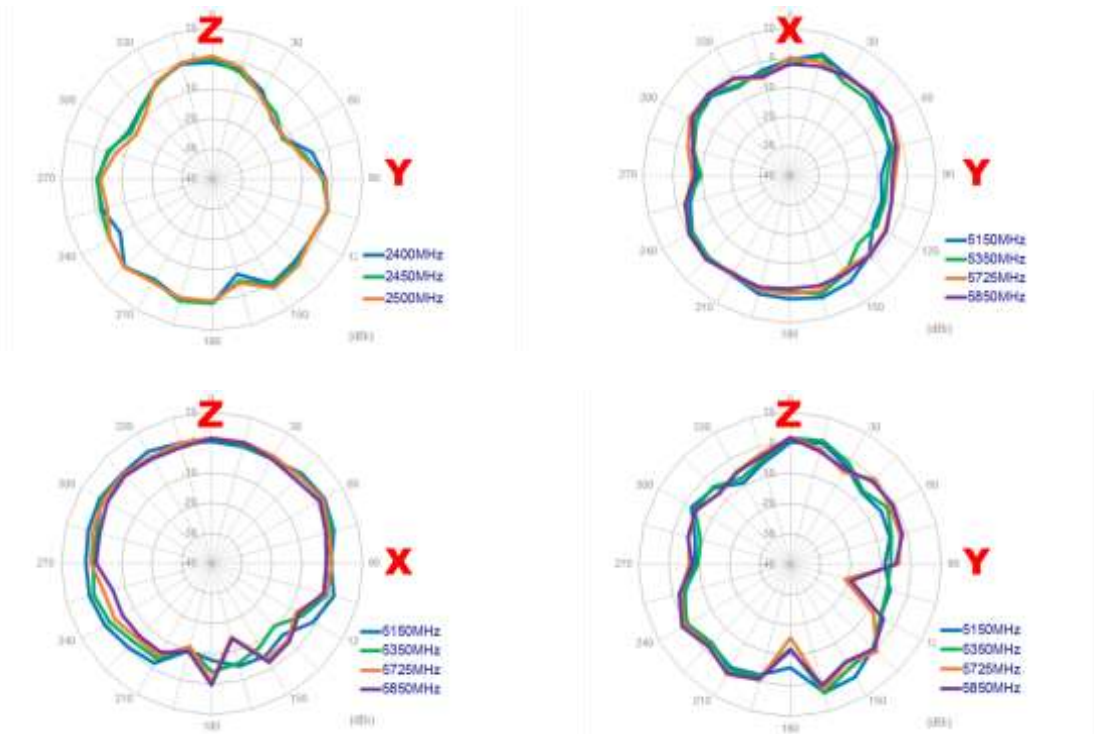
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### III. Antenna Radiation Pattern Measurement:



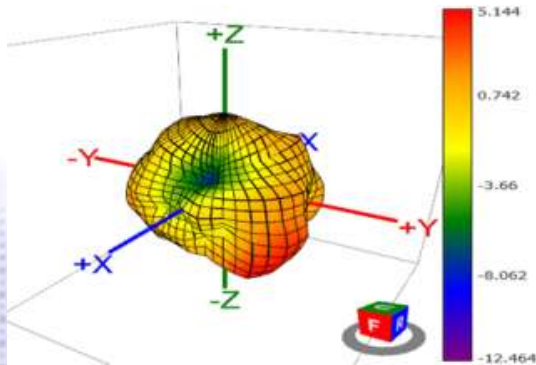
2D Radiation Pattern



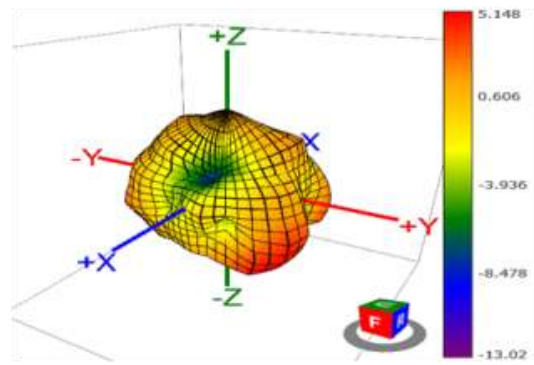


### 3D Radiation Pattern

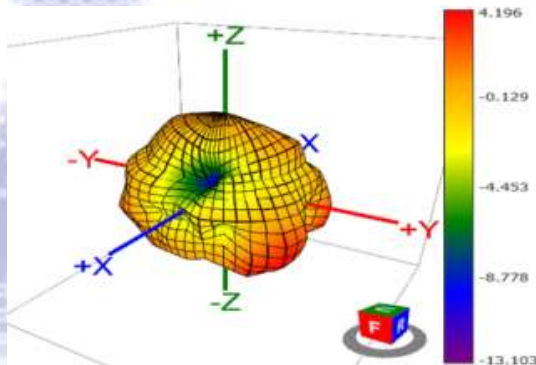
2400 MHz

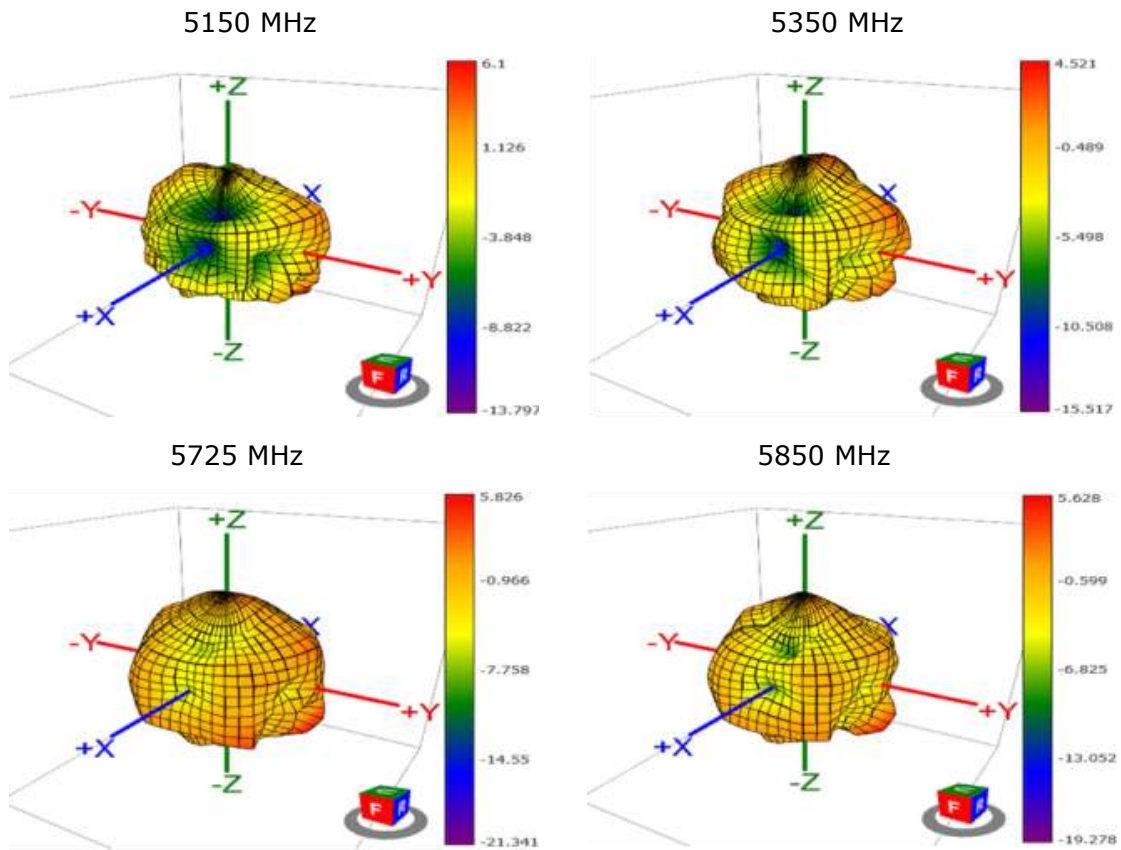


2450 MHz



2500 MHz





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

