



**Product Name:** 2.4GHz / 5.8GHz / 6.0GHz / 7.1GHz

WiFi 6E Terminal Antenna

**Part Number:** ADA-0038

**Features:**

- Supports WiFi Bands 2.4GHz / 5.8GHz / 6.0GHz / 7.1GHz
- Length: 115-133.5mm
- Hinge Rotatable 90 Degree
- Connector : RSMA (Male)
- RoHS & REACH Compliant

**Applications:**

- WiFi Router Application
- Smart Metering Application
- IoT Device Application

# 2.4GHz/5.8GHz/6.0GHz/7.1GHz WiFi 6E Terminal Antenna

**MODEL: ADA-0038**

20230726

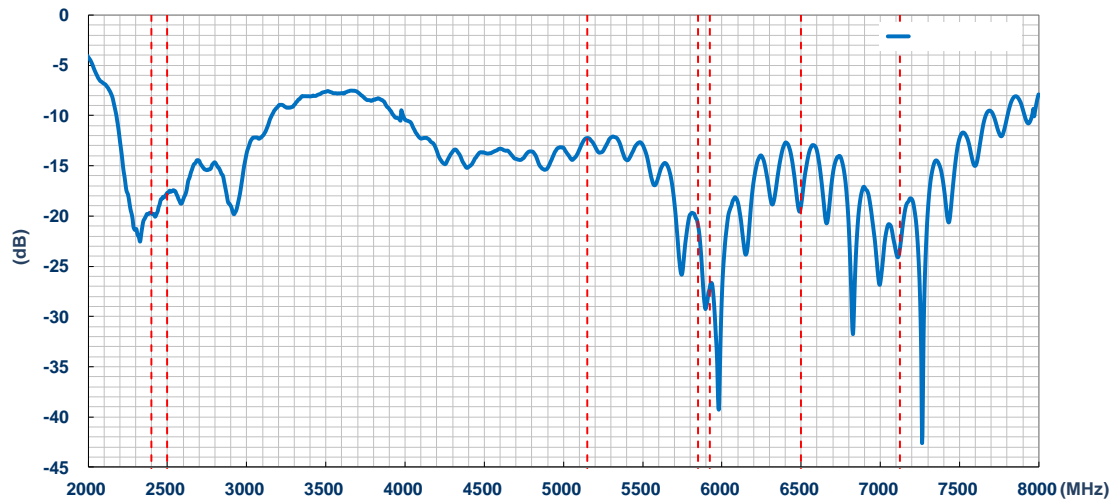
All specifications subject to change without notice.

## I. Specifications:

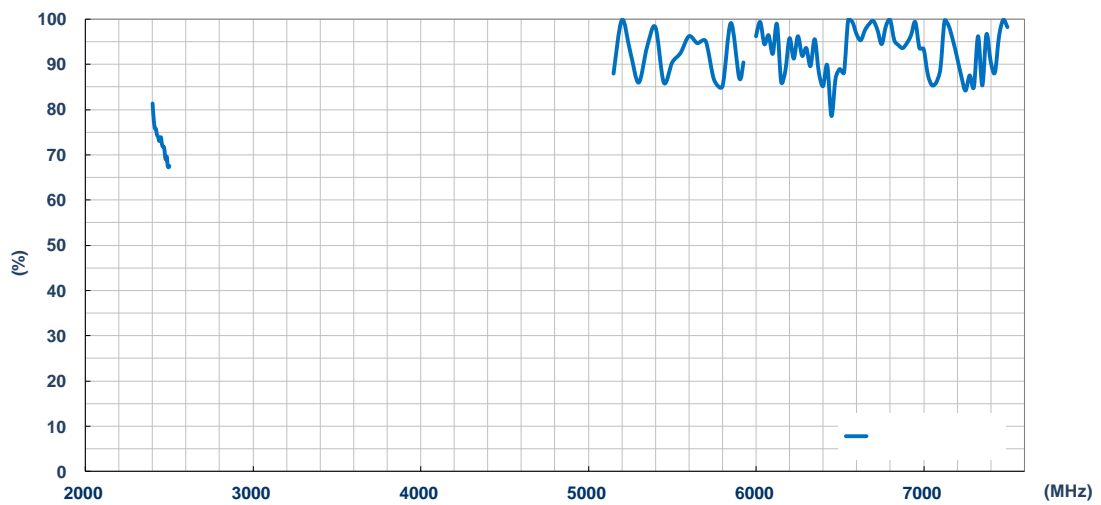
Items	Specifications						
Frequencies (MHz)	2400	2450	2500	5150	5200	5350	5500
Efficiency (%)	81.28	73.79	67.45	87.90	99.77	93.76	92.47
Average Gain (dBi)	-0.90	-1.32	-1.71	-0.56	-0.01	-0.28	-0.34
Peak Gain (dBi)	2.61	2.39	2.38	2.63	2.99	2.74	3.07
Frequencies (MHz)	5750	5800	5850	5925	6500	6700	7125
Efficiency (%)	86.50	85.11	99.08	90.36	88.92	99.54	99.54
Average Gain (dBi)	-0.63	-0.70	-0.04	-0.44	-0.51	-0.02	-0.02
Peak Gain (dBi)	2.26	2.02	2.95	2.42	2.78	3.1	3.58
V.S.W.R	< 2						
Return Loss (dB)	< -10						
Impedance (Ω)	50						
Radiation Pattern	Omni-Directional						
Mechanical							
Connector	Reverse SMA (Male)						
Dimensions (mm)	φ 10.0(D) x 115-133.5(L) x 19.0(W)						
Environmental Conditions							
Operation Temperature (°C)	-40 ~ +80						
Storage Temperature (°C)	-40 ~ +80						

## II. Antenna Technical Parameters:

S11-parameters (dB)

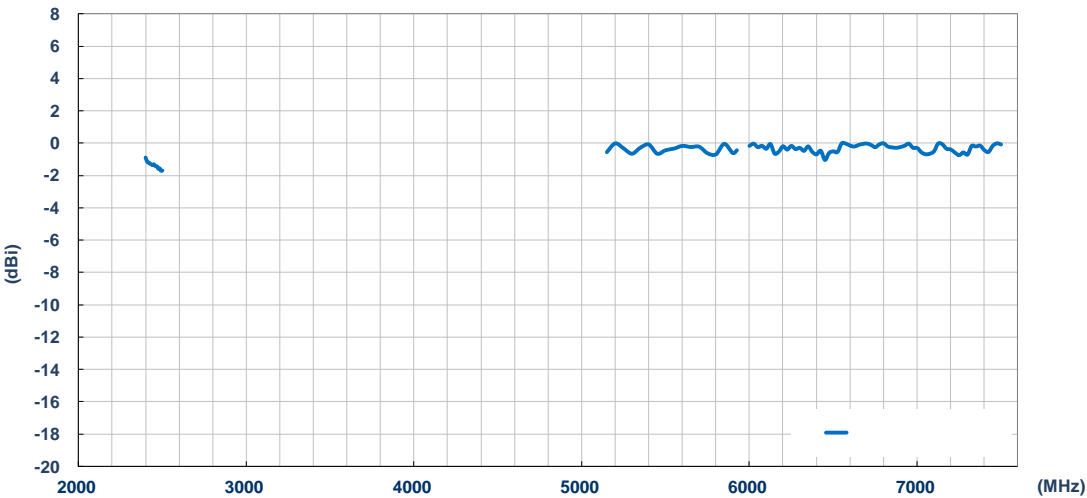


Efficiencny (%)

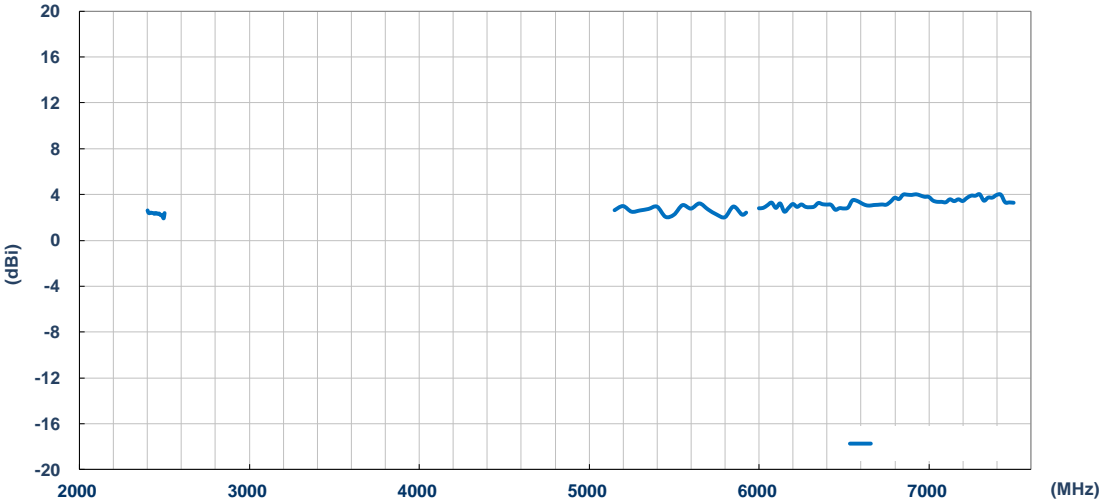


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Average Gain (dBi)

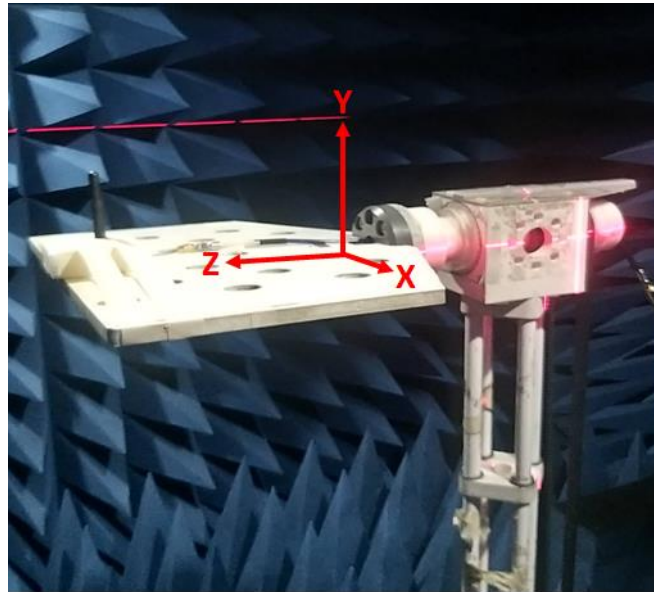


Peak Gain (dBi)



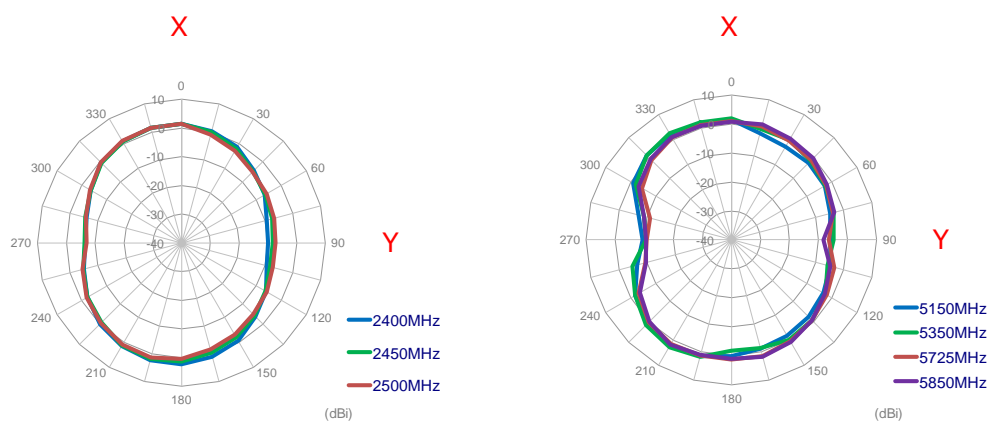
### III. Antenna Radiation Pattern Measurement:

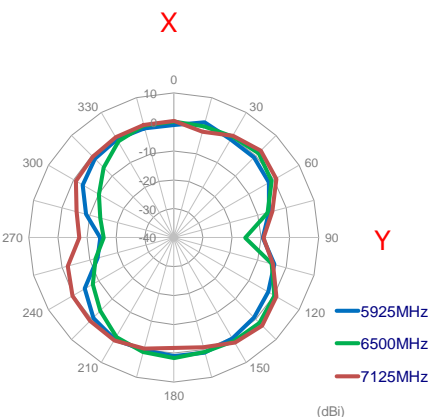
The antenna radiation patterns are measured in 3D Anechoic Chamber.  
The measurement setup is as show below,



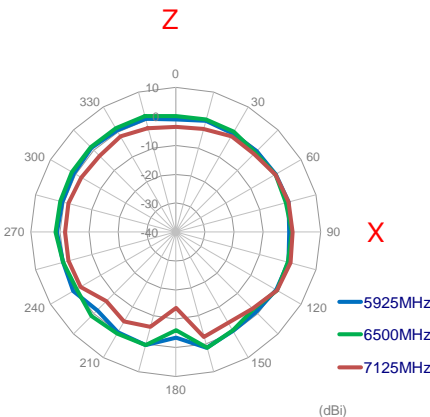
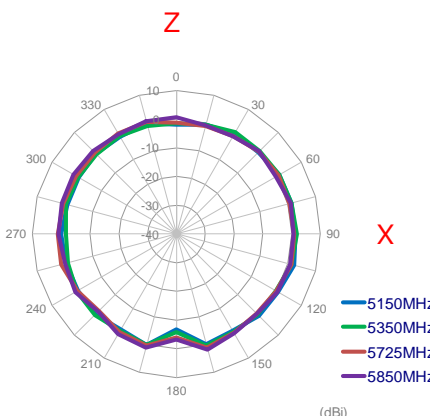
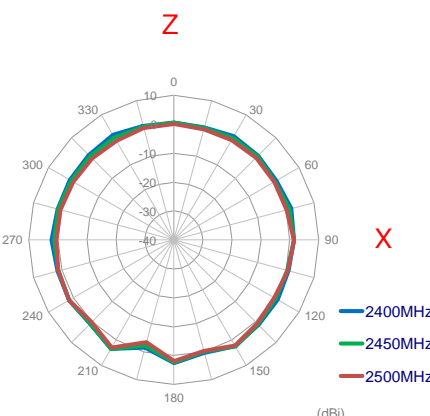
### IV. 2D Radiation Pattern:

X-Y plane

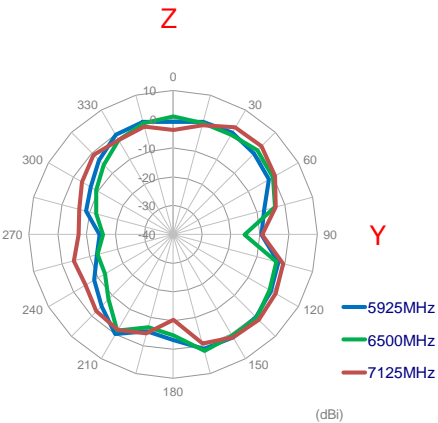
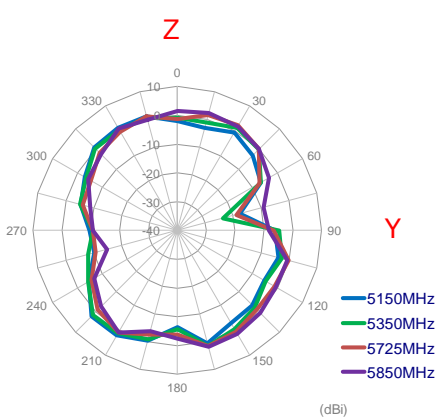
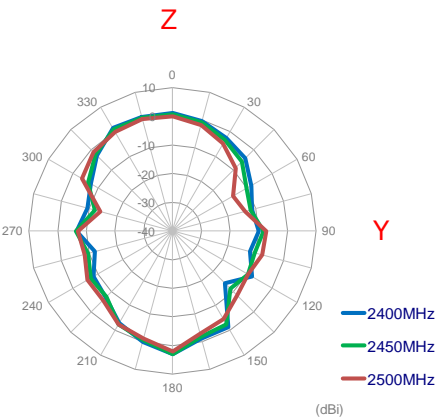




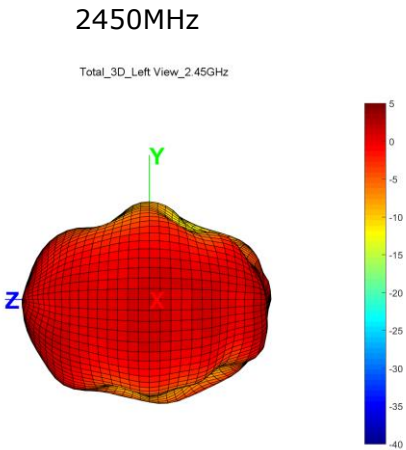
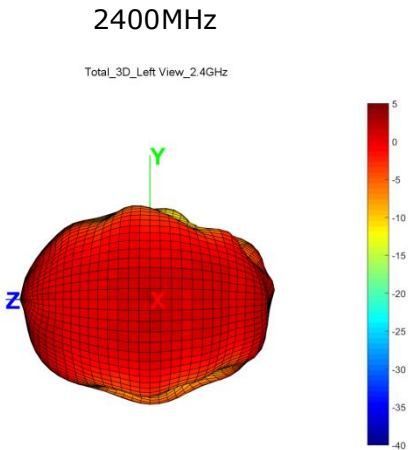
X-Z plane



Y-Z plane

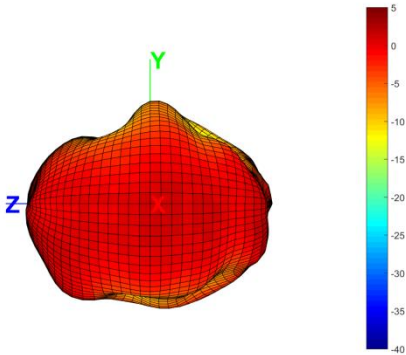


V. 3D Radiation Pattern:



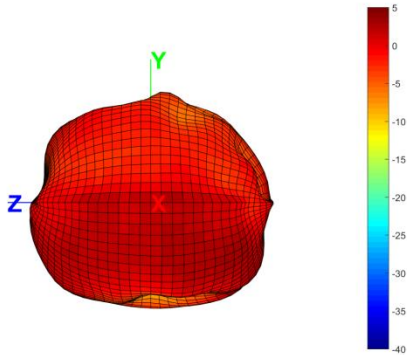
2500MHz

Total\_3D\_Left View\_2.5GHz



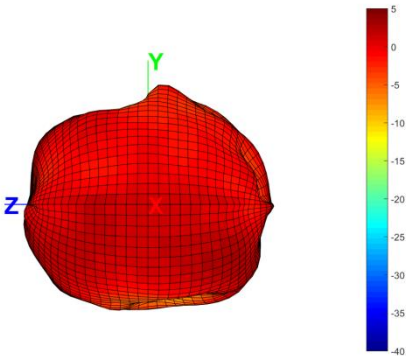
5150MHz

Total\_3D\_Left View\_5.15GHz



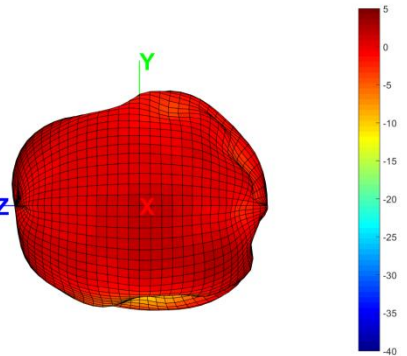
5350MHz

Total\_3D\_Left View\_5.35GHz



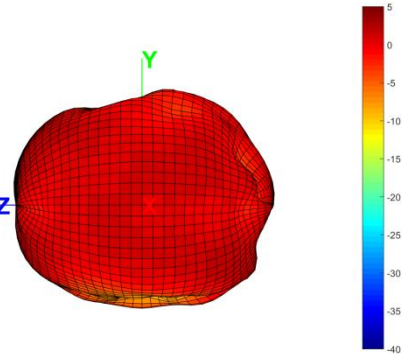
5725MHz

Total\_3D\_Left View\_5.7GHz



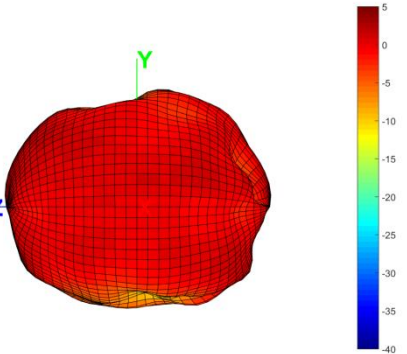
5850MHz

Total\_3D\_Left View\_5.85GHz

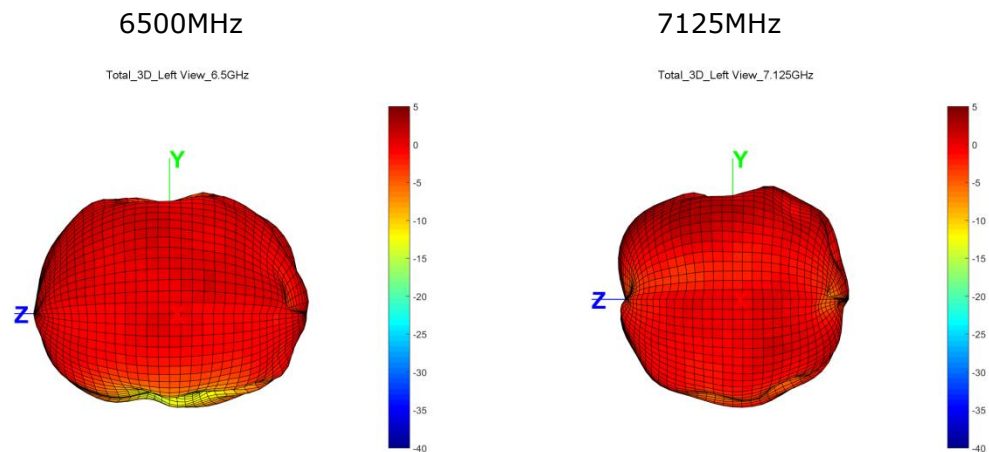


5925MHz

Total\_3D\_Left View\_5.925GHz

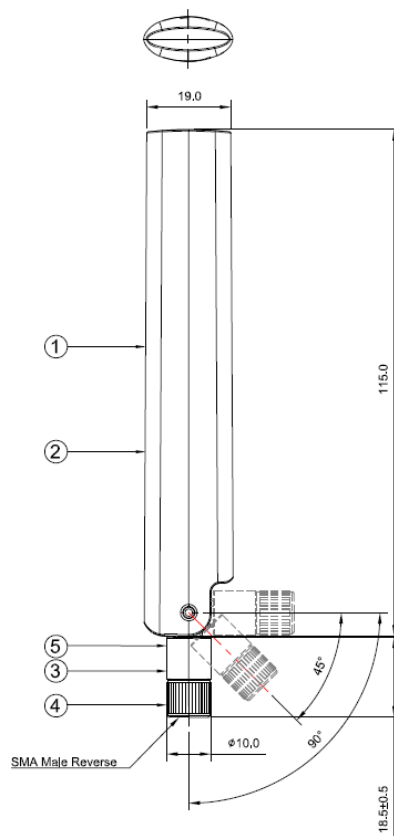






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## VI. Mechanical Drawing (Unit:mm):



5	Cable	O.D,1.37mm	Black	1
4	Connector	SMA Male Reverse	Black	1
3	Body2	PC+PPT	Black	1
2	PCB	FR4	Black	1
1	Body1	PC+PPT	Black	1
No.	Name	Material	Finish	Q'ty