

433.925MHz AP Antenna(1dBi)

1. Explanation of Product Number

R	A	X	X	L	A	P	D	0	1	S	A	0	0	1
		(1)	(2)	(3)	(4)	(5)	(6)							



Product Code:

(1) Connector Type / color:

00: SMA Plug / Black

02: SMA Plug / White

01: SMA Plug reverse / Black

03: SMA Plug reverse / White

(2) Polarization:

L: Linear Polarization

(3) Product categories:

AP: Access Point Antenna

(4) Working frequency:

D: 433.925MHz

(5) Applications:

01: ISM band system

(6) Antenna Series:

SA001: Serial Number

Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : ± Hole Dia. : ±



RIFO Technologies Corporation

Website: www.rifo.com.tw

Scale : Unit : mm

Prepared By : Helen Checked By : Jeff

Designed By : Jason Approved By : Allen

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2. Features

- *Stable and reliable in performances
- *Compact size
- *RoHS compliance

3. Applications

- *ISM band system

4. Operating Condition

Temperature	-30 to +85 °C
Humidity	10 to 95% RH

5. Storage Condition

Temperature	-30 to +85 °C
Humidity	10 to 95% RH

6. Description

RIFO's AP antenna series are specially designed for 433.925MHz band application. Based on RIFO's proprietary designs and processes, this AP antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

7. Electrical Specifications

5-1.

Item	Property
Frequency Range	433.925 GHz
Impedance	50 Ω (Typ.)
VSWR	VSWR ≤ 2
Return loss	-10 dB max.
Gain	1 dBi (Typ.)
Polarization	Linear Polarization
Radiation pattern	Near omni-directional in the horizontal plane
Admitted power	1 W

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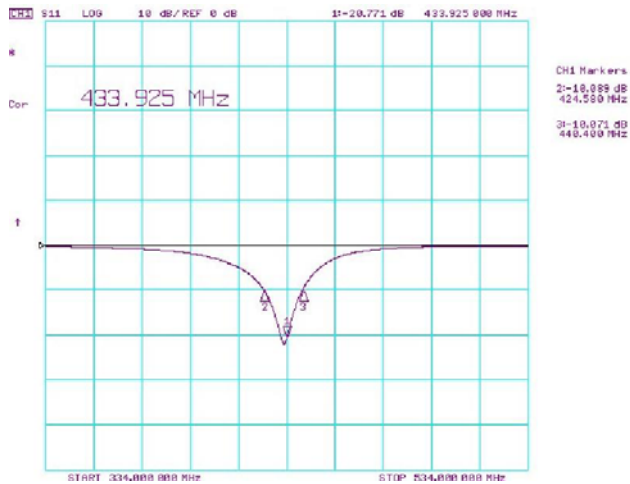
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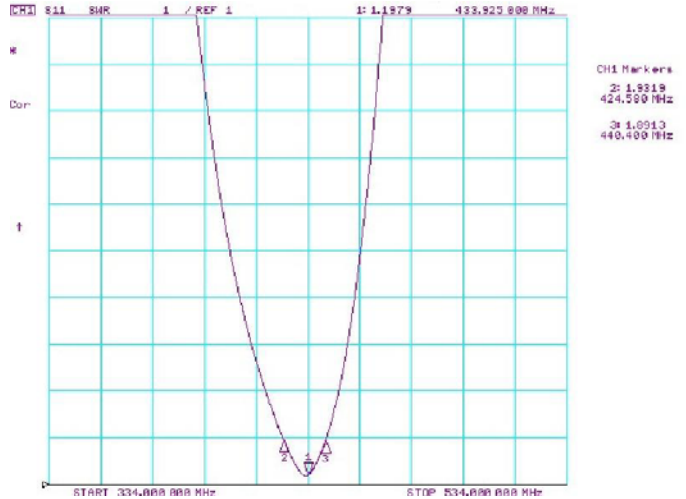
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5-2.

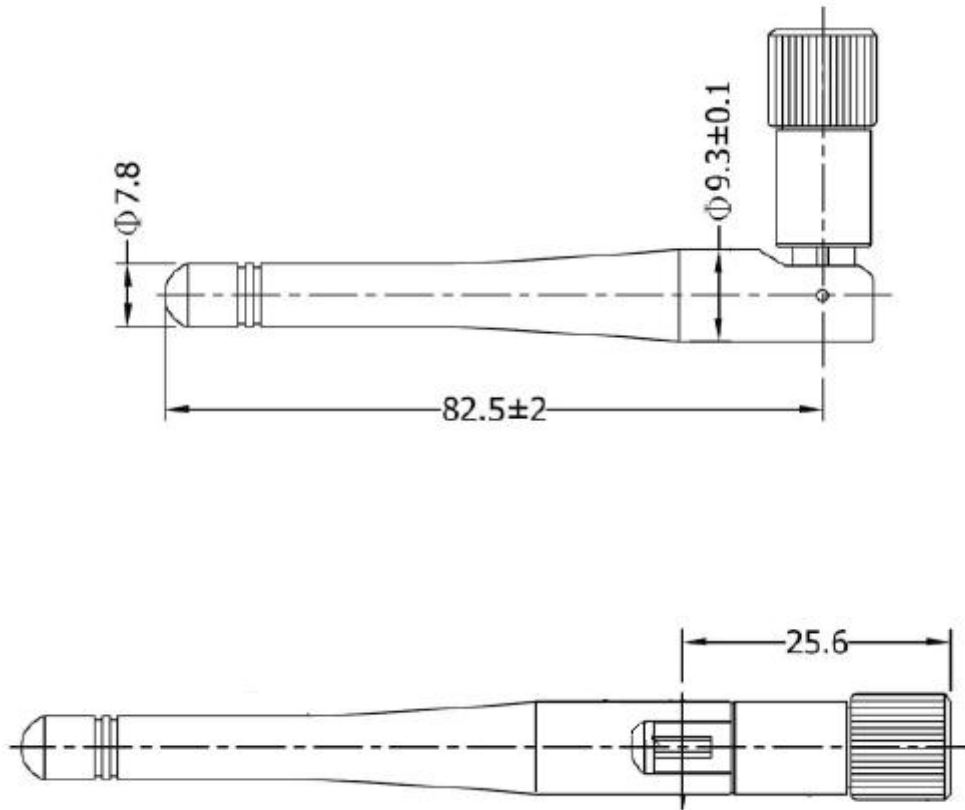
Return Loss(S₁₁)



VSW(S₁₁)



8. Antenna Dimensions (unit: mm)



Tolerances (Unless otherwise specified)	
X : ± 1	X.X : ± 0.1 X.XX : ± 0.01
Angle : ±	Hole Dia. : ±
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9. Measurement method

- Equipment : Anechoic Chamber(fig1), Network Analyzer(Agilent E8753ES), Standard Horn
- Item : Gain pattern

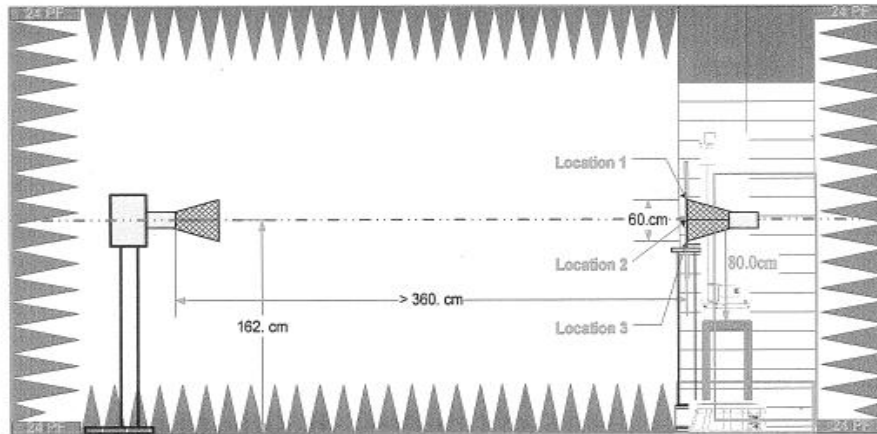


Fig.1 Quiet zoom

- The plane defined in the fig2 which we measured the face of gain pattern.

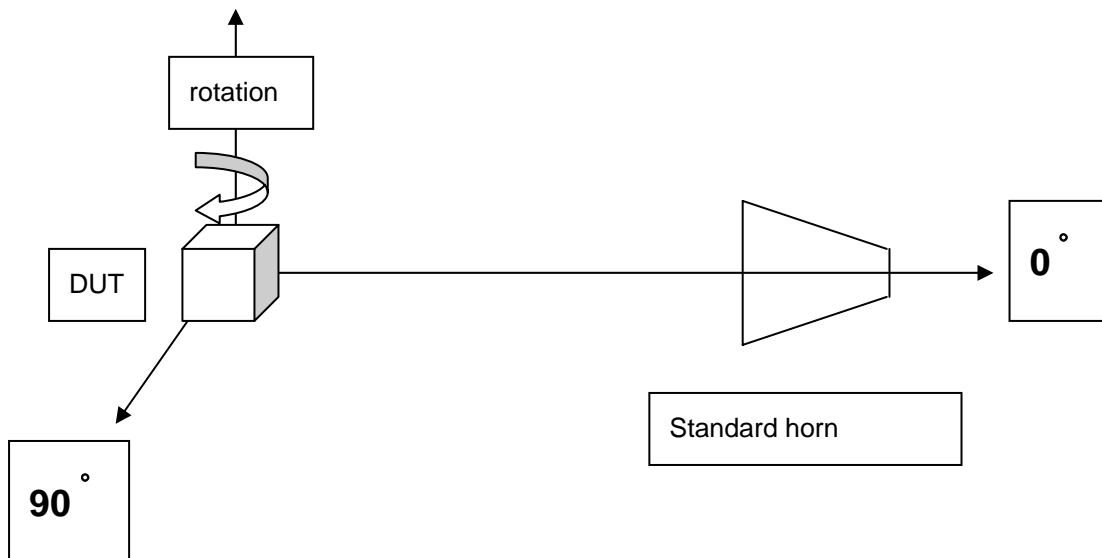


Fig.2 The definition of the measurement face

Tolerances (Unless otherwise specified)

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Angle : \pm Hole Dia. : \pm

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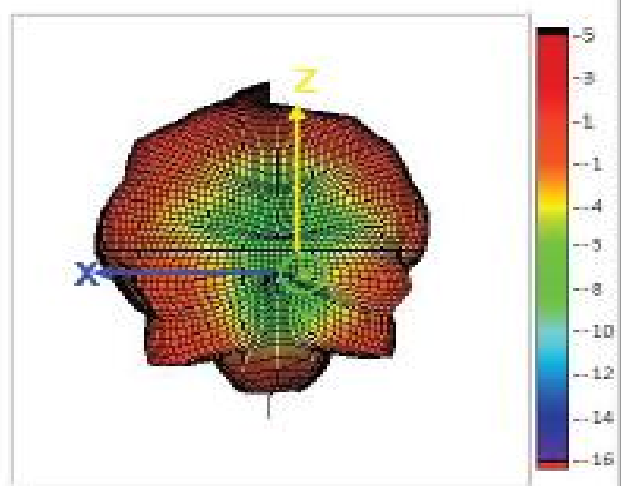
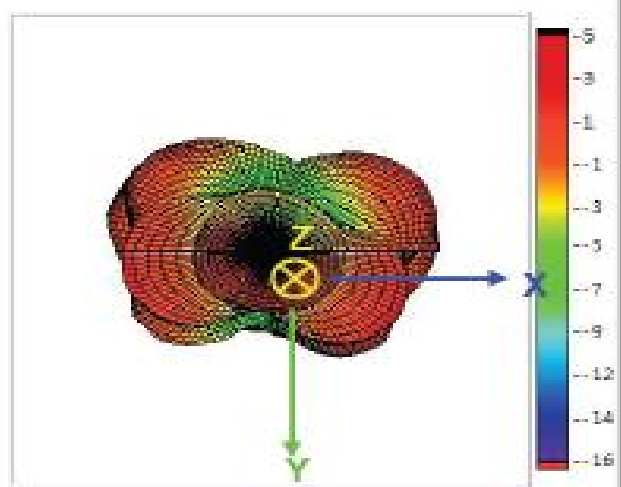
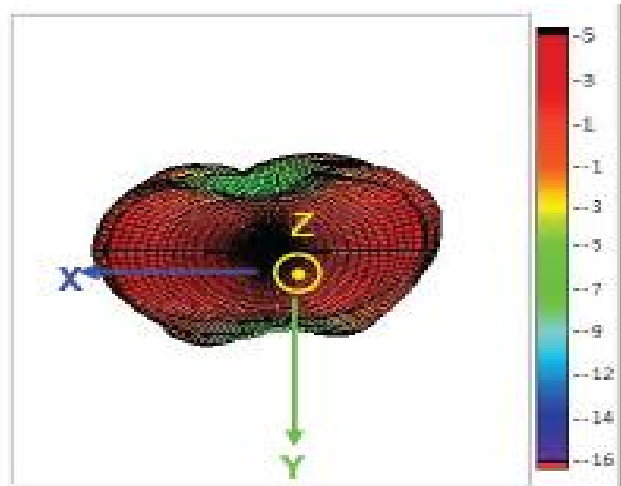
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10.Radiation Pattern (3D Gain Pattern @433.925MHz)



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Angle : ± Hole Dia. : ±

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