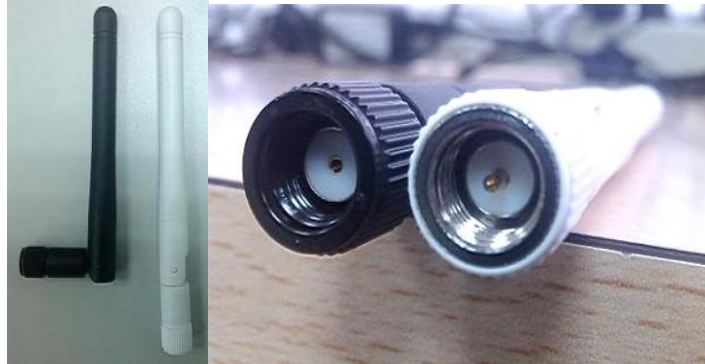


承認書

Approval sheet



Model : 2.4GHz AP Antenna (2dBi)

Part no: RA00LAPA00SA000

Version : V1.0

客 戶 (Customer) : 明緯企業股份有限公司

發 送 日 期 (Date) : 2025/10/6

聯 絡 人 (Contact) : 汪國誌

保密宣告 (Classified Info.)

本文列為機密文件，受雙方 NDA(Non-Disclose Agreement)所規範。
基此，請妥善保管文件，不可外洩給與合約無關之第三者造成雙方之損失。
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Revision No.	History	Auther	Date
V1.0	ISSUE		2025/10/6

承認	承認	品保	工程
Approve	Approve	QA	E/E

Approval by : _____

Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : $\pm$ Hole Dia. : $\pm$

Scale : Unit : mm

Prepared By : Helen Checked By : Jeff

Designed By : Jason Approved By : Allen



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TITLE : 2.4GHz AP Antenna(2dBi)

DOCUMENT
NO.

RA00LAPA00SA000

REV.
A

2.4GHz AP Antenna(2dBi)

1. Explanation of Product Number

R	A	0	0	L	A	P	A	0	0	S	A	0	0	0
		(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:

A: 2.4~2.483GHz

(5) Applications:

00: WiFi / Bluetooth / ZigBee

(6) Antenna Series:

SA000: Serial Number

Tolerances (Unless otherwise specified)

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Angle : $\pm$ Hole Dia. : $\pm$



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2. Features

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

3. Applications

- *WiFi IEEE802.11 b/g / Bluetooth / ZigBee
- *2.4GHz Wireless Devices

4. Operating Condition

Temperature	-20 to +70 °C
Humidity	10 to 95% RH

5. Storage Condition

Temperature	-30 to +80 °C
Humidity	10 to 95% RH

6. Description

RIFO's AP antenna series are specially designed for 2.4GHz 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

7-1.

Item	Property
Frequency Range	2.4~2.4835 GHz
Impedance	50 Ω (Typ.)
VSWR	VSWR $\leq$ 2
Return loss	-10 dB max.
Gain	2 dBi (Typ.)
Polarization	Linear Polarization
Radiation pattern	Near omni-directional in the horizontal plane
Admitted power	1 W

Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : $\pm$ Hole Dia. : $\pm$

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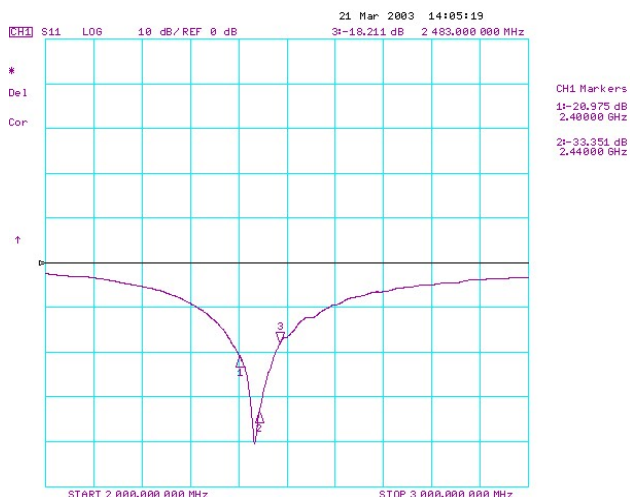
DOCUMENT
NO.

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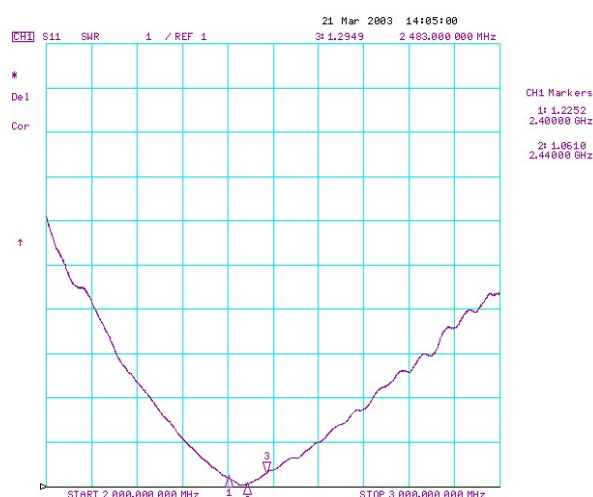
REV.
A

7-2.

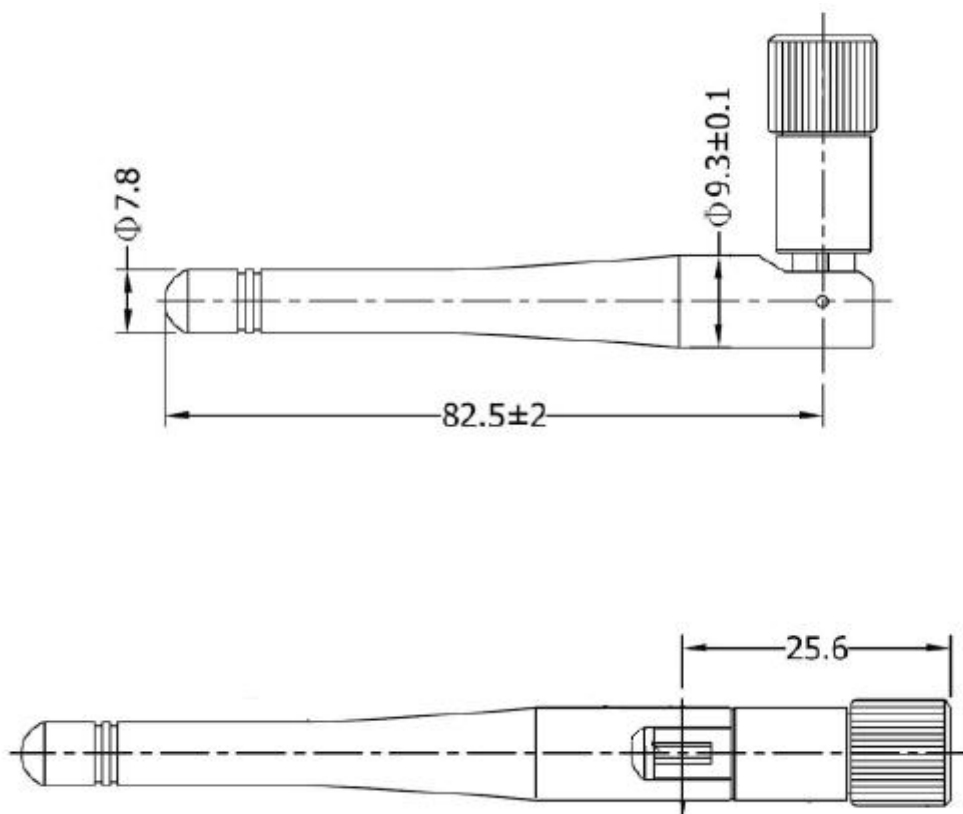
Return Loss(S_{11})



VSW(S_{11})



8. Antenna Dimensions (unit: mm)



Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : $\pm$ Hole Dia. : $\pm$

Scale : Unit : mm

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9. Measurement method

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

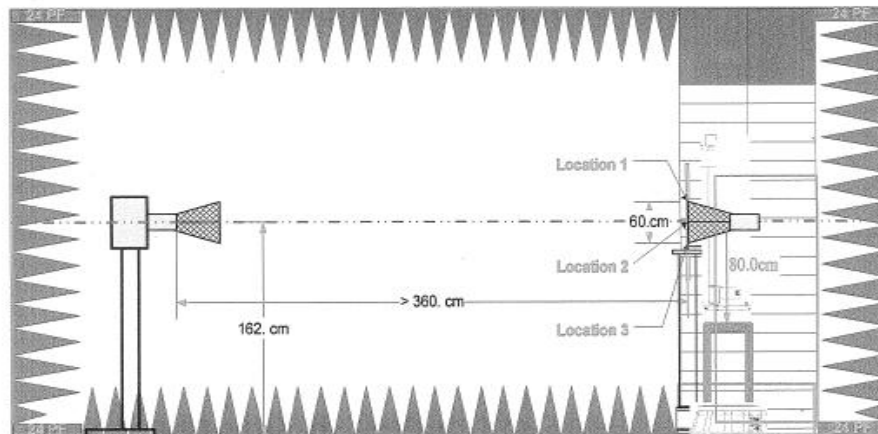


Fig.1 Quiet zoom

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

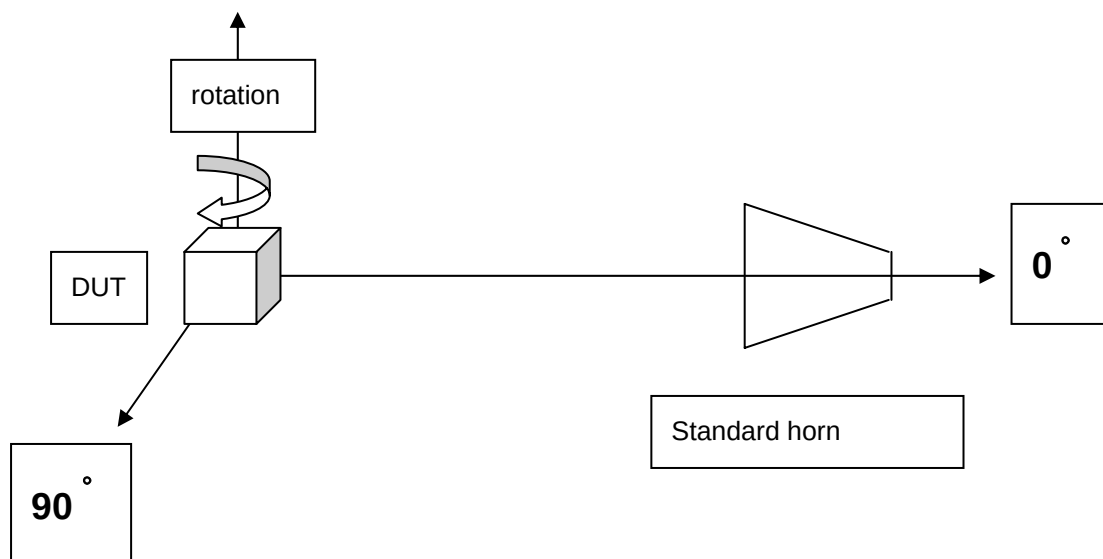


Fig.2 The definition of the measurement face

Tolerances (Unless otherwise specified)
X : ± 1 X.X : ± 0.1 X.XX : ± 0.01
Angle : $\pm$ Hole Dia. : $\pm$

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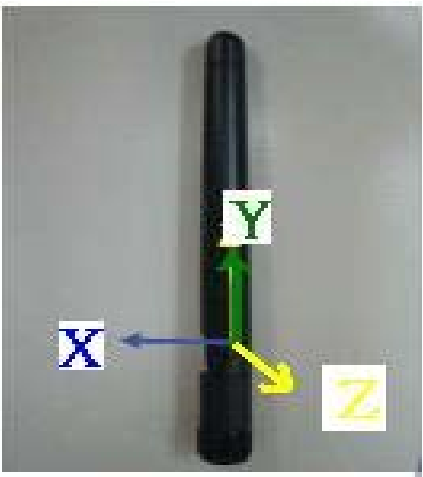
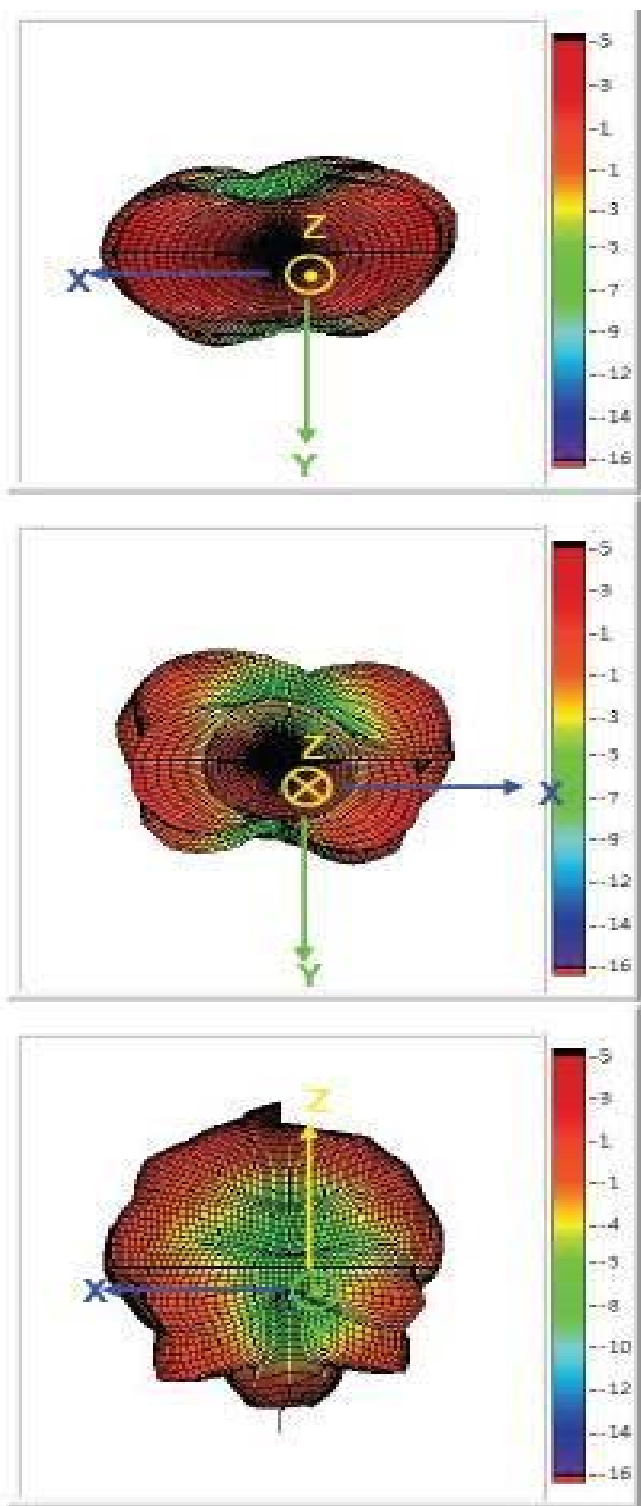
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10.Radiation Pattern (3D Gain Pattern @2450MHz)



Tolerances (Unless otherwise specified)
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Angle : $\pm$ Hole Dia. : $\pm$

Scale :	Unit : mm
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 Tel :886-3-542-1055
 Fax:886-3-562-2055



Tolerances (Unless otherwise specified) X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 Angle : $\pm$ Hole Dia. : $\pm$		 RIFO Technologies Corporation Website: www.rifo.com.tw	
Scale :	Unit : mm	THIS SPECIFICATION IS THE PROPERTY OF RIFO TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION	
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