

承認書

Approval sheet



Model : Desktop Antenna for 4G(2.5dBi)

Part no: RA33LAPN09SA013

Version : V1.0

客 戶 (Customer) : 明緯企業股份有限公司

發 送 日 期 (Date) : 2025/10/8

聯 絡 人 (Contact) : 汪國誌

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Revision No.	History	Auther	Date
V1.0	ISSUE		2025/10/8

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. : $\pm$		 RIFO Technologies Corporation Website: www.rifo.com.tw	
Scale :	Unit : mm		
Prepared By : Helen	Checked By : Jeff	THIS SPECIFICATION IS THE PROPERTY OF RIFO TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION	
Designed By : Jason	Approved By : Allen		
TITLE: Desktop Antenna for 4G (2.5dBi)	DOCUMENT NO.	RA33LAPN09SA013S	REV. A

Desktop Antenna for 4G(2.5dBi)

1. Explanation of Product Number

R	A	3	3	L	A	P	N	0	9	S	A	0	1	3
		(1)		(2)	(3)		(4)	(5)		(6)				



Product Code:

(1) Antenna dimensions / cable diameter / cable length / connector type:

33: 110x30x28mm / ϕ 2.7mm / 1±0.05 M / SMA Plug

(2) Polarization:

L: Linear Polarization

(3) Product categories:

AP: Access Point Antenna

(4) Working frequency:

N: 698~960MHz & 1710~2690MHz (including 2.4GHz application)

(5) Applications:

09: LTE system

(6) Antenna series:

SA013: Serial Number

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2. Features

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

3. Applications

- *LTE/3G system(including 2.4GHz application)

4. Operating Condition

Temperature	-30 to +70 °C
Humidity	10 to 95% RH

5. Storage Condition

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

6. Description

RIFO's Desktop antenna series are specially designed for LTE/3G band application. Based on RIFO's proprietary designs and processes, this flat antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

7. Electrical Specifications

7-1. Property

Characteristics	Specification
Frequency Range	698~960MHz & 1710~2690MHz (including 2.4GHz application)
Impedance	50 Ω (Typ.)
VSWR	2.0 max.
Peak Gain	2.5 dBi (Typ.)
Polarization	Linear Polarization
Antenna Outline Dimensions	110x30x30mm
Cable Length	100±5cm

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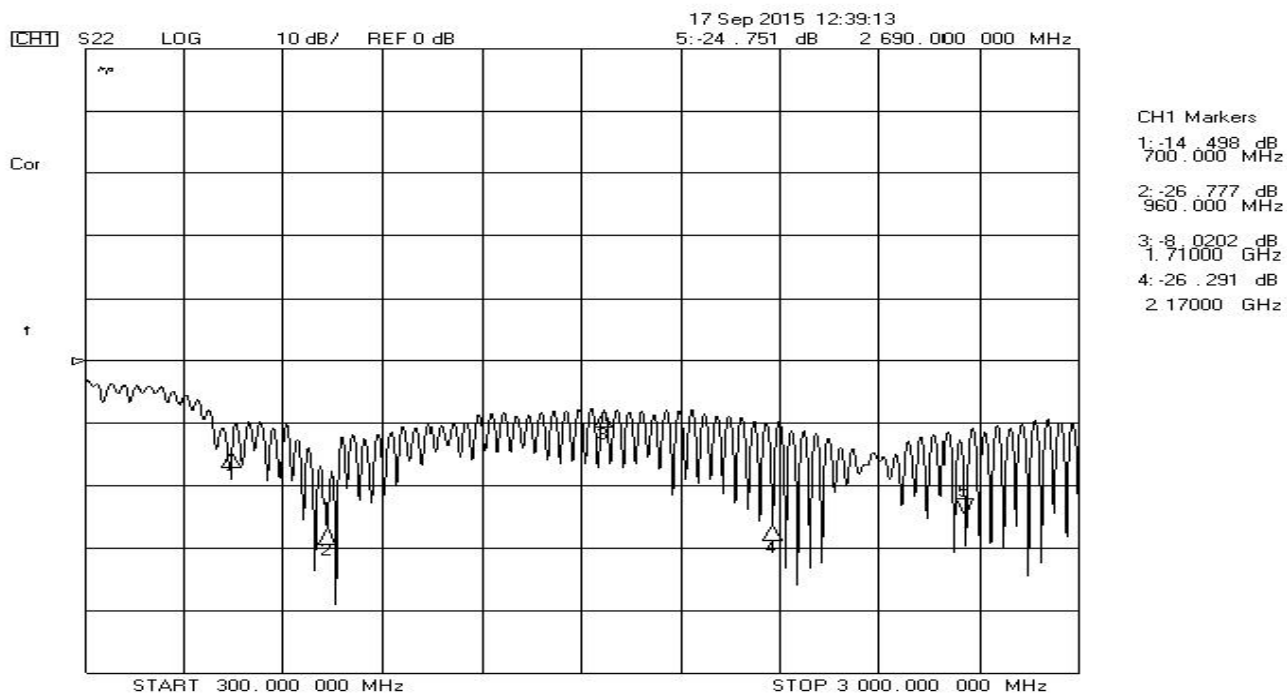
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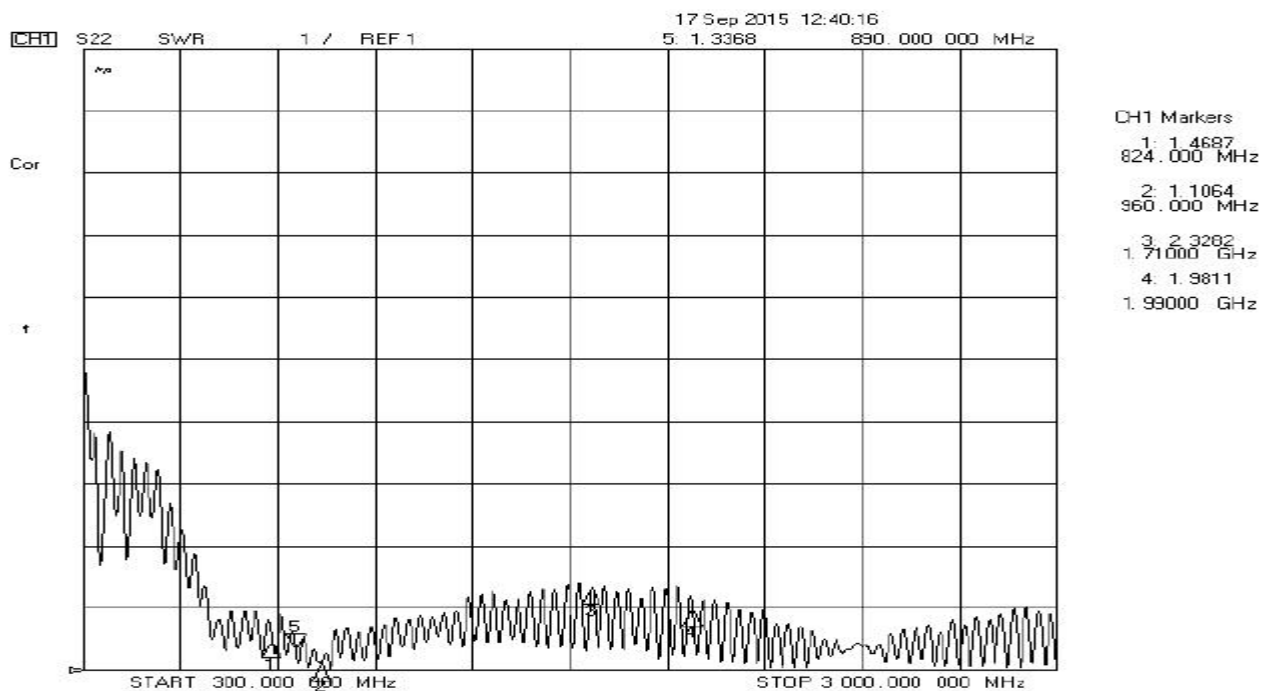
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7-2. Return Loss(S_{11})



VSWR(S_{11})



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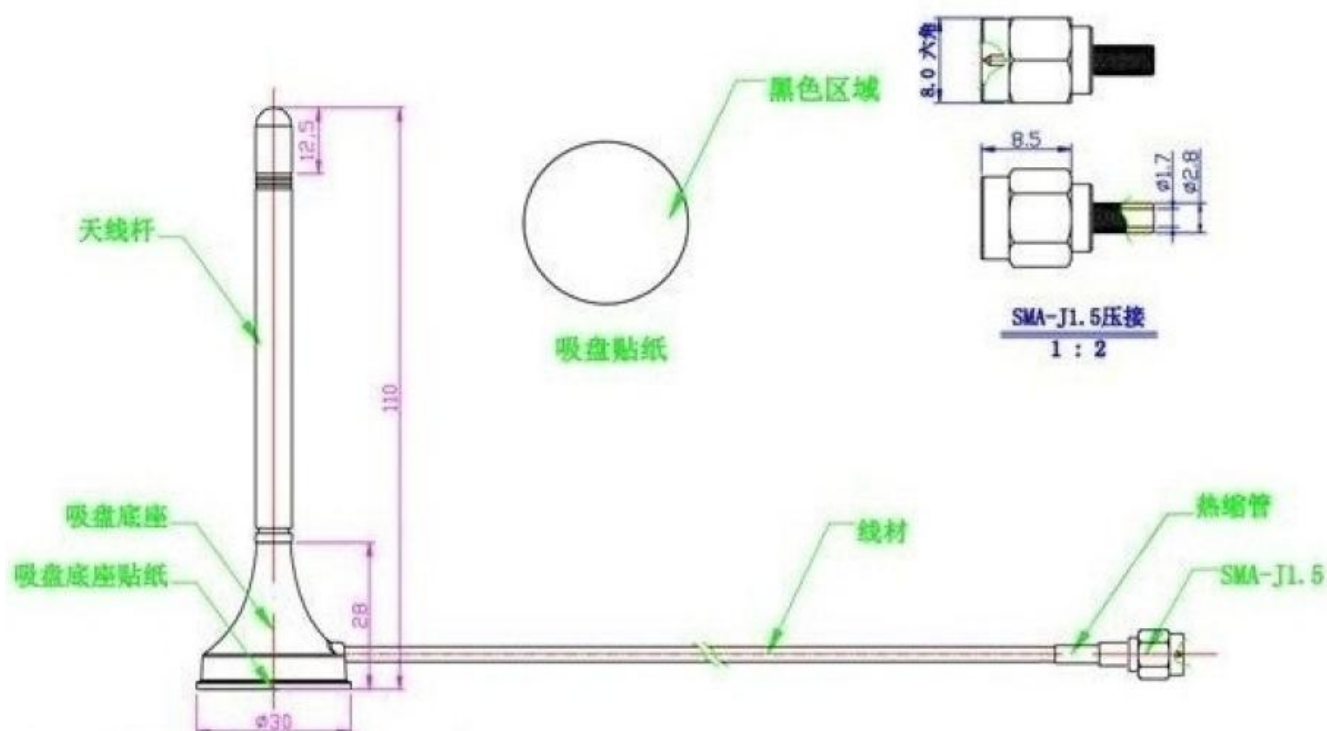
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8. Antenna Dimensions (unit: mm)



5	接头	SMA-J1.5 压接镀金	1	
4	线材	RG174黑色铜包铝线 L=1M	1	
3	天线杆	L=8.2cm	1	
2	吸盘底座贴纸	Φ30mm	1	
1	吸盘底座	Φ30mm*28mm	1	
NO	PART NAME	DESCRIPTION	Q.TY	REMARK

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9. Measurement method

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

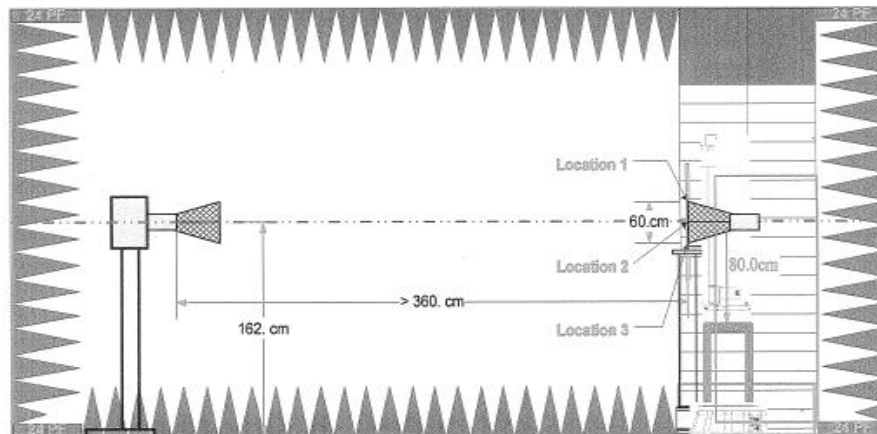


Fig.1 Quiet zoom

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

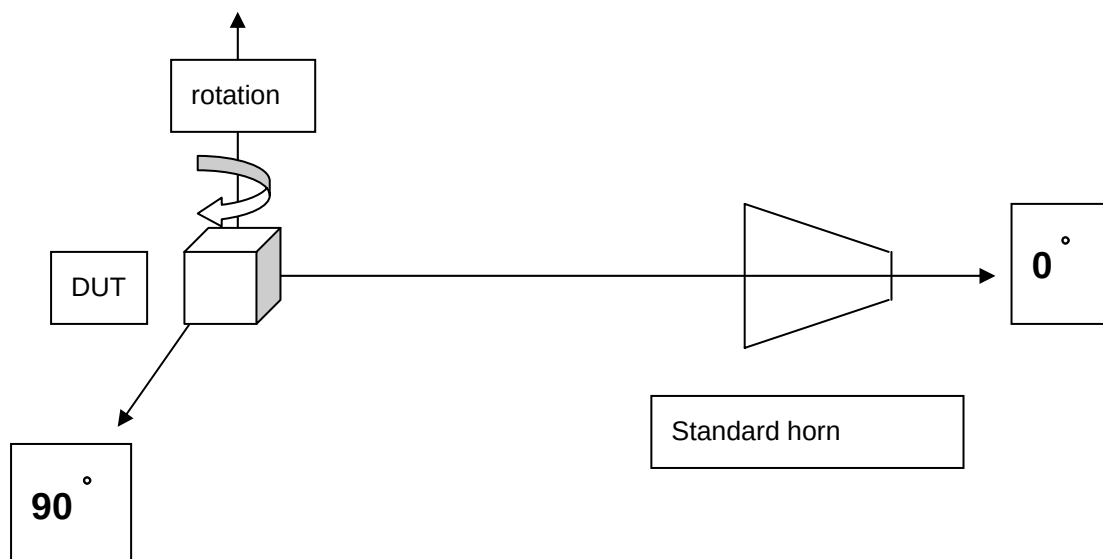


Fig.2 The definition of the measurement face

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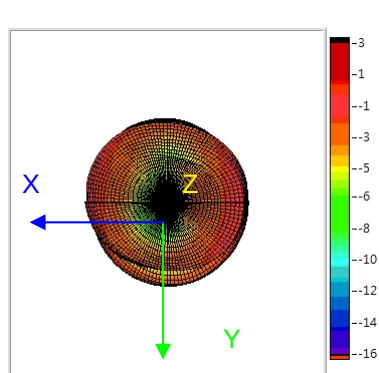
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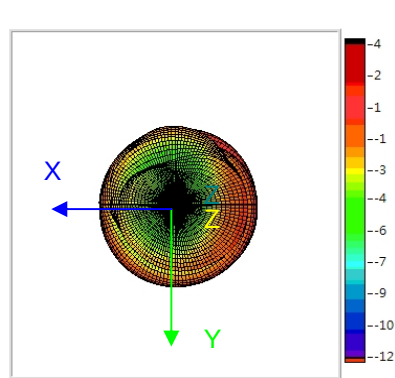
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10.Radiation Pattern

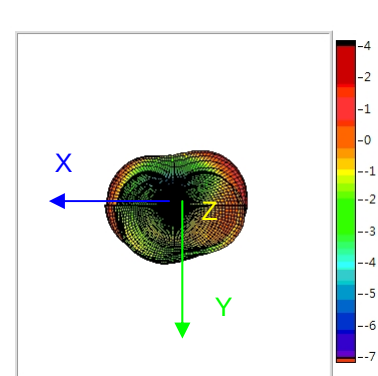
fo=2100MHz



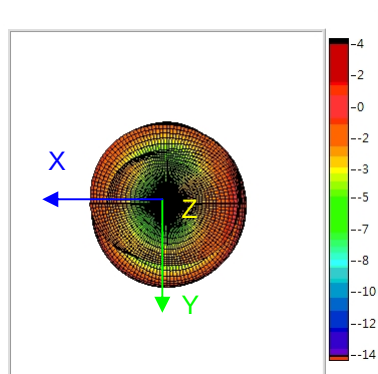
fo=850MHz



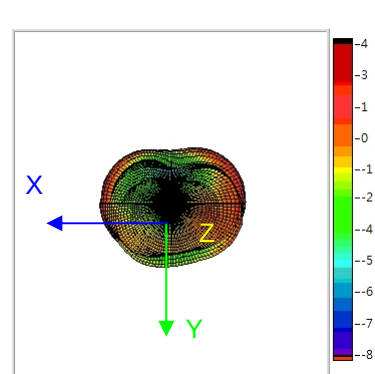
fo=1800MHz



fo=930MHz



fo=1930MHz



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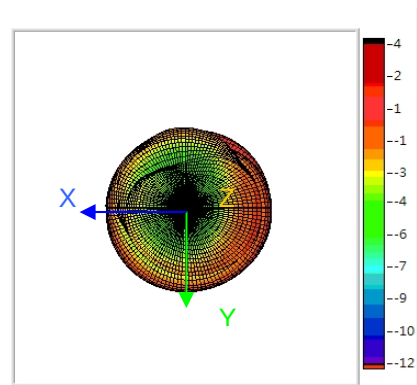
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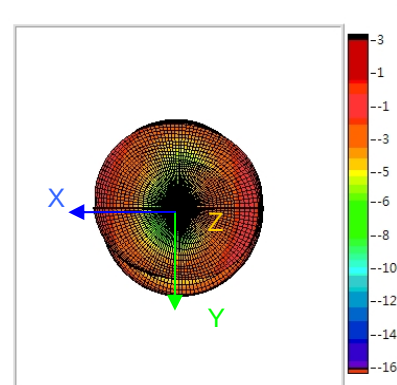
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fo=745MHz



fo=2580MHz



■ Address Information

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Fax:886-3-562-2055



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