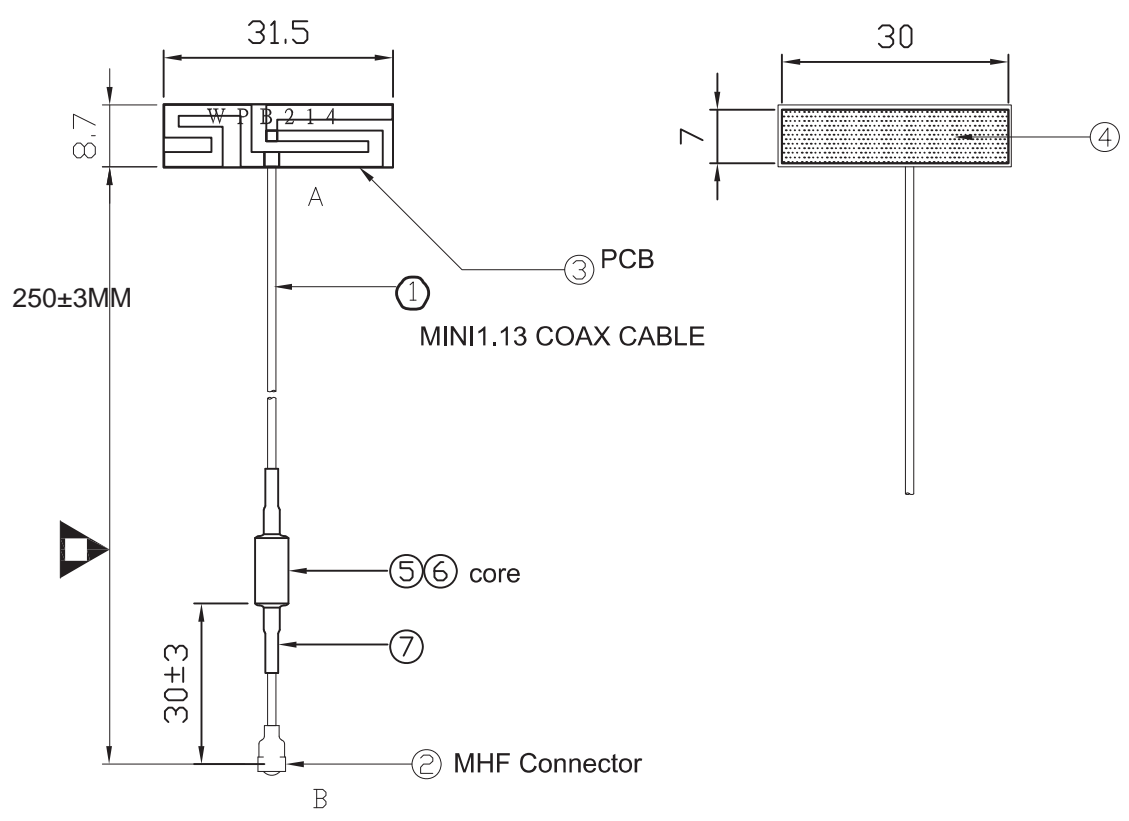


# SPECIFICATION

- |                               |                  |
|-------------------------------|------------------|
| 1. Description                | : PCB ANTENNA    |
| 2. Customer                   | : HANSONG        |
| 3. Model No.                  | : RC1WFI0902A1   |
| 4. Part No.                   | : WLAN           |
| 5. Standard                   | :                |
| 6. Antenna Profile            | : PCB ANTENNA    |
| 7. Lead Length                | : L:250MM        |
| 8. Electrical Characteristics |                  |
| Operating Frequency           | : 2.4--5.8Ghz    |
| Gain                          | : 2DBI           |
| Impedance                     | : 50             |
| 9. Mechanical Characteristics |                  |
| Connector                     | : MHF-13         |
| Core                          | : 4*10*2MM       |
| 10. Raw Material              |                  |
| Coaxial Cable                 | : MINI 1.13 GREY |

變更內容履歷簡述	REVISIONS	DESCRIPTION	版次 REV.	年月日 DATE	變更切換方式	作成
△						
△						
△						



Test : Network analyzer test 100%

 G9000

7	TUBE	WR	Heat-Strinkable		1
6	TUBE	WR	Heat-Strinkable		1
5	CORE	KX	CORE 4*10*2MM		1
4	G9000	BS	G9000 7*30MM		1
3	PCB	CH	WPB214		1
2	CON	CCT	MHF-13-CON		1
1	CABLE	YD	MINI 1.13 GREY COAXIAL		1

NO.	Name	Vendor	SPEC				切斷尺寸 & 備註	用量
第3角法		圖面不用實測				部品番號		45-2-000029
單位: mm		作成	檢圖	確認	核准	品名		Antenna 2.4/5G
比例: FREE		AleI	Hellen	Roy	David	产品分类		<input checked="" type="checkbox"/> A成品 <input type="checkbox"/> B半成品 <input type="checkbox"/> C样品
2016-08-08						公司番號		RC1WFI0902A1

# OUTLINESUMMARY

- Test Environment and Equipment
- Test Data of Antenna:

Test Result : Efficiency & Peak Gain

Test Result : 3D Radiation Pattern Test

## TEST ENVIRONMENT AND EQUIPMENTS

### **The Gain, Efficiency, Directivity and 3D Pattern**

Shanghai EM-Testing Co., Ltd.  
<https://www.em-testing.com/>

### **Frequency Range :**

WLAN 802.11 a/b/g: 2.40~2.50 & 5.125~5.85 GHz

Bluetooth : 2.4~2.5GHz

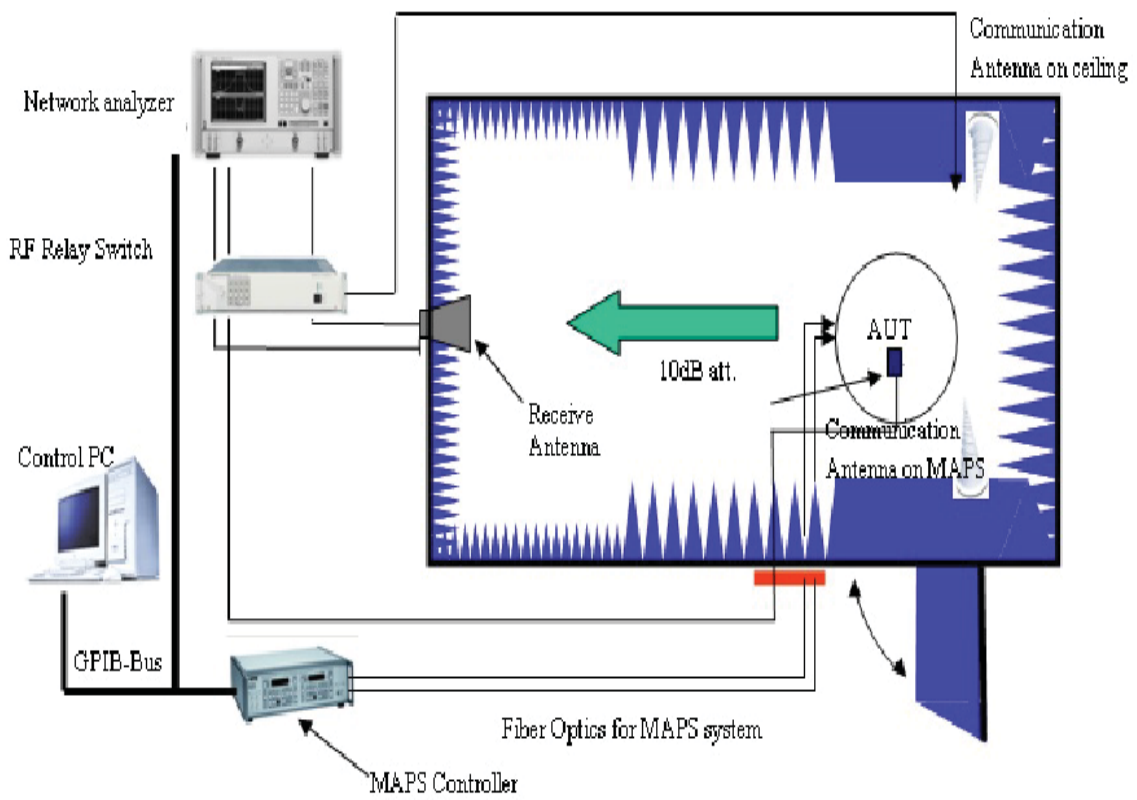
### **Radiation Pattern Test System :**

Taet Laboratory:

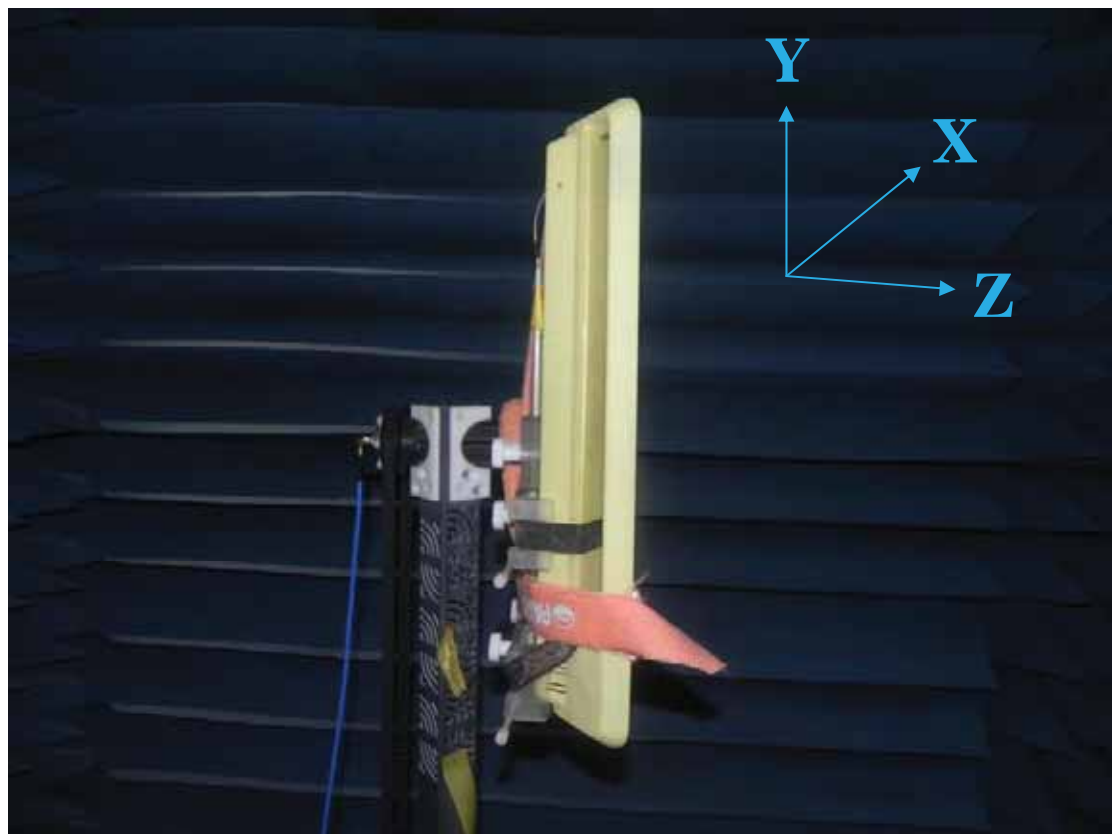
Name: **suzhou Laboratory**

Address:No.99 Hongye RD.Suzhou Industrial Park Loufeng Hi-New-Tech  
Development Area,Suzhou,China

The test results relate only to the samples tested.

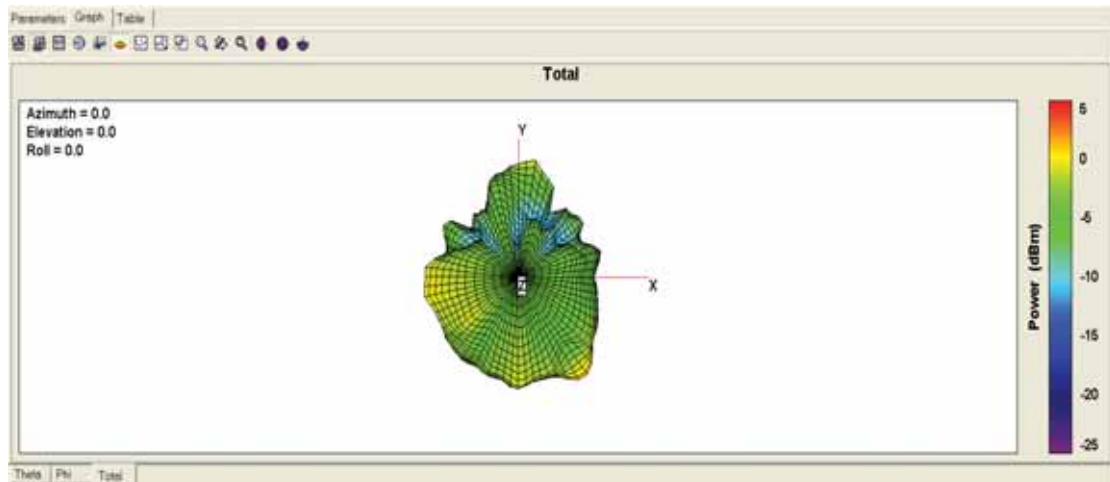


COORDINATE OF STRUCTURE:

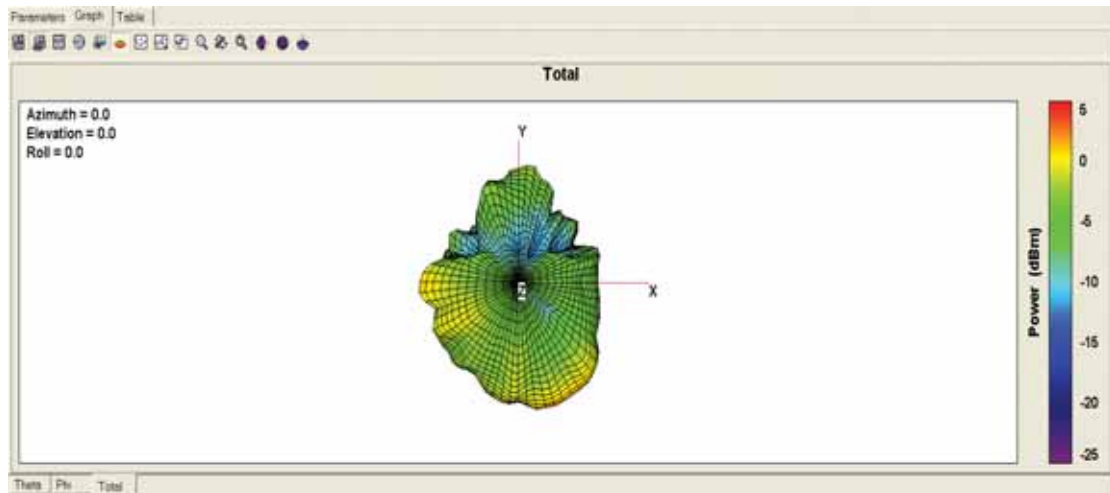


# RADIATION PATTERN

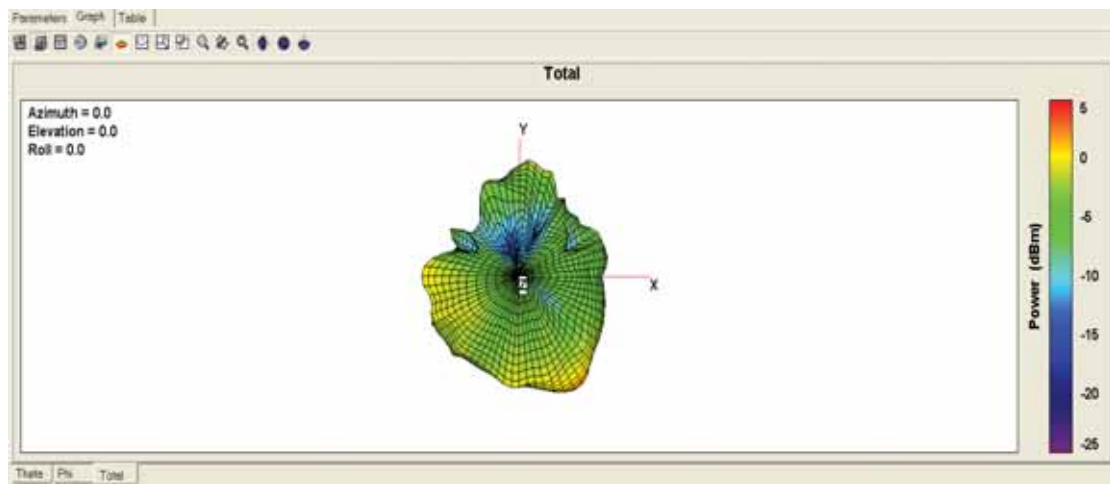
2.4G



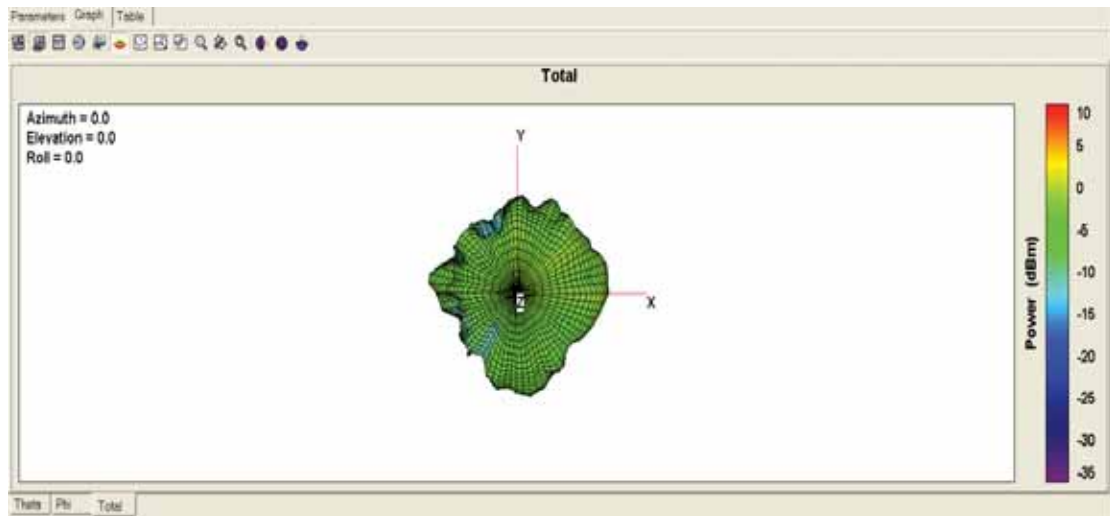
2.45G



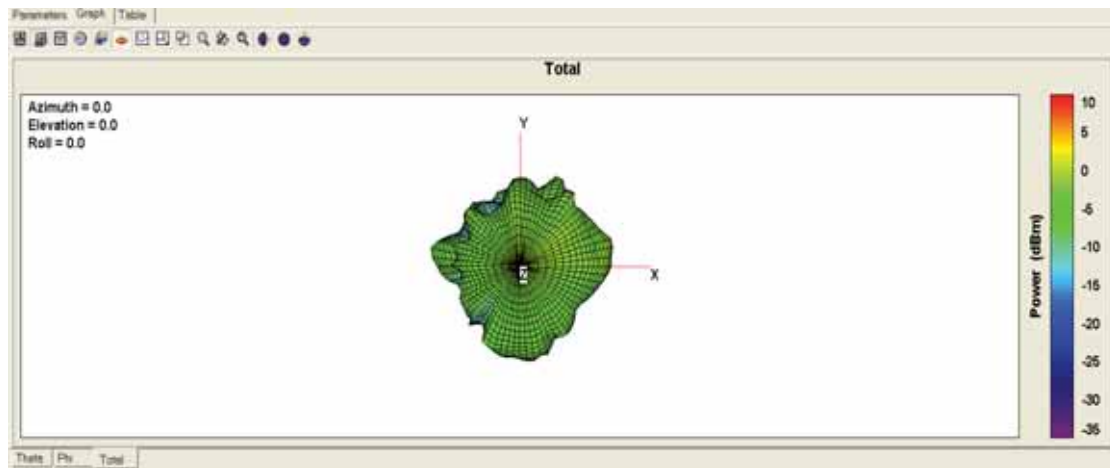
2.5G



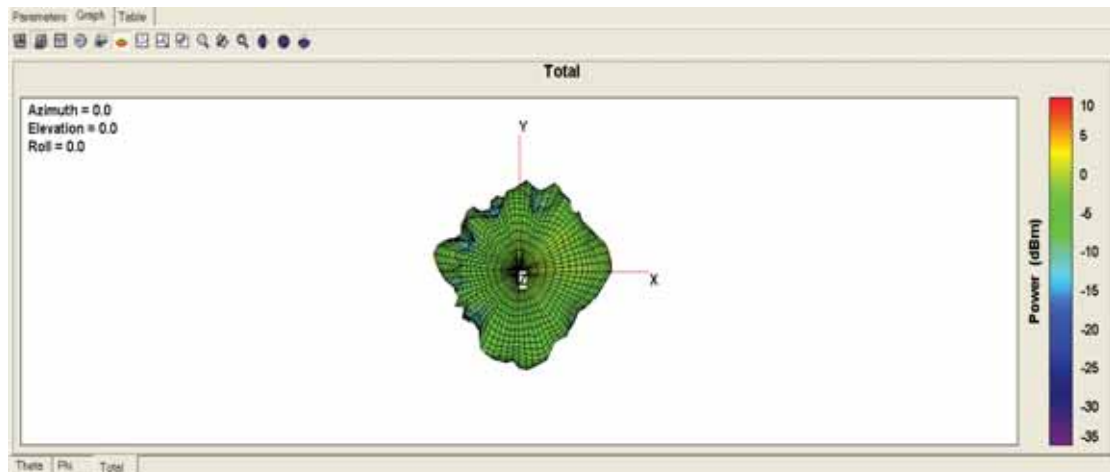
5.15G



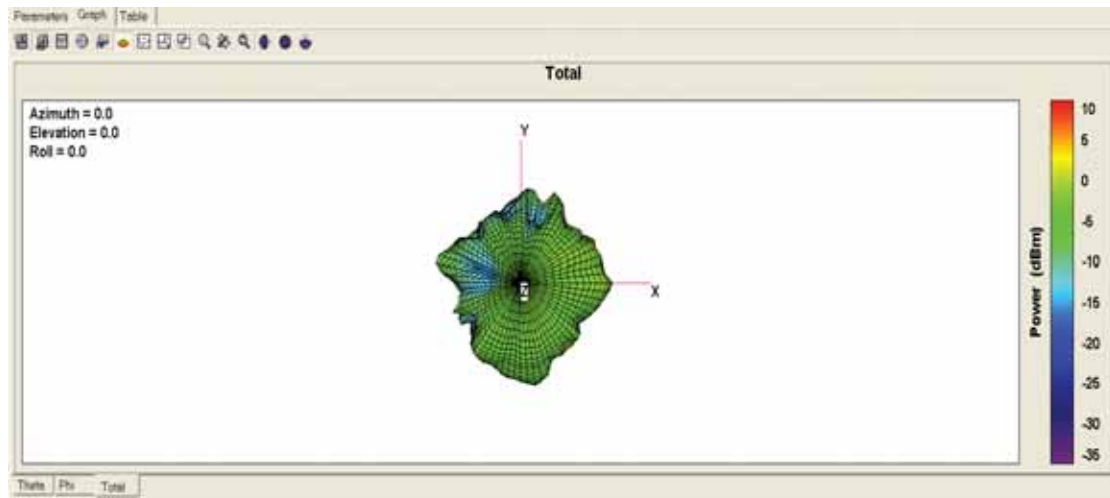
5.25G



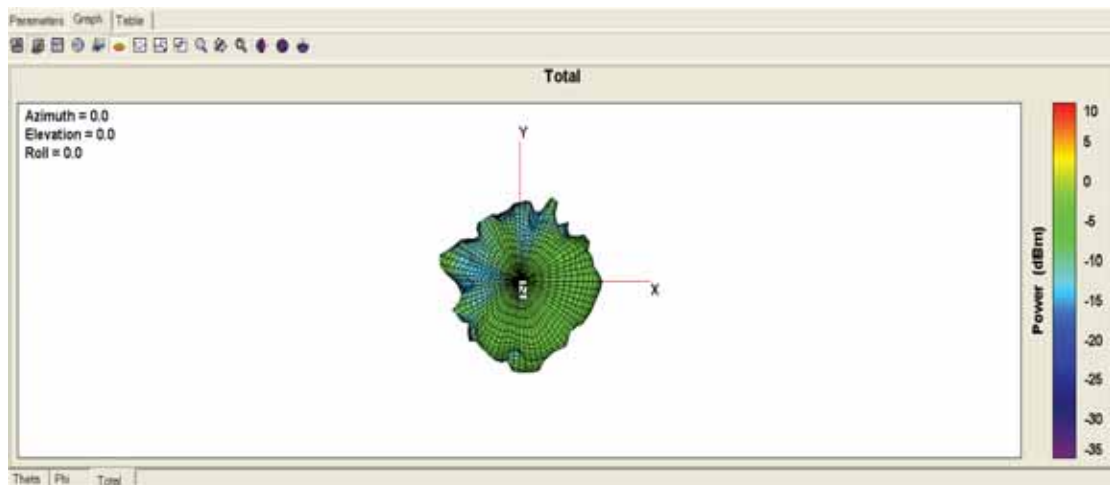
5.35G



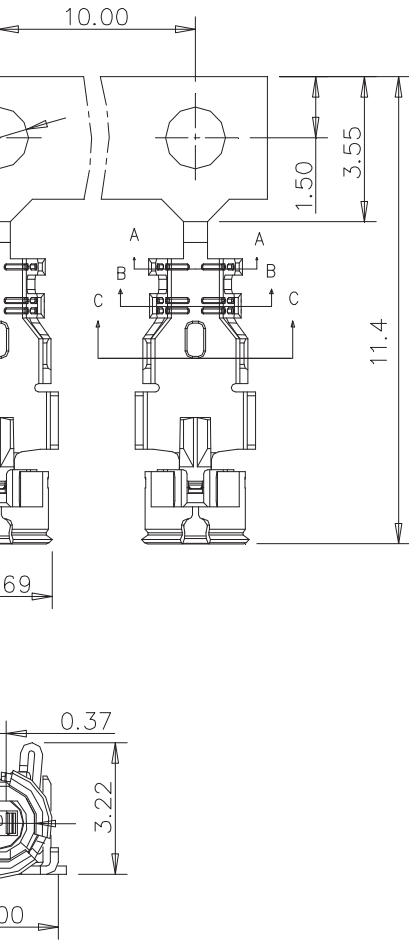
5.725G



5.85G



TOTAL	Point values	Efficiency (%)	Gain (dBi)
	2400	77.2742	1.99381
	2450	67.3879	1.94324
	2500	69.3915	1.98422
	5150	73.3217	1.99406
	5250	76.1802	1.99018
	5650	73.6448	1.95269
	5850	63.5692	1.93948
	6000	72.4331	1.98974



BEFORE CRIMPING	AFTER CRIMPING
 SECTION A-A	 H1: 1.15~1.35
 SECTION B-B	 H2: 1.06~1.14
 SECTION C-C	 H3: 1.34~1.40
APPLICABLE COAXIAL: AWG #32( $\phi$ 1.13).	

OLD PLATED OVER NI
OLD PLATED OVER NI
94-0
DESCRIPTION

UNITS: mm		PART NO.: ABR-CAB-047-001	NAME: RF 1.13 CONNECTOR						
X.±	X°±	APPD: Ding Liu	DWG NO.: MHF-13-CON-02						
.X±0.2	.X°±	CHKD: Hai Hu	<table border="1"> <tr> <td>SCALE</td> <td>SHEET</td> <td>REV.</td> </tr> <tr> <td>NONE</td> <td>1/1</td> <td>A0</td> </tr> </table>	SCALE	SHEET	REV.	NONE	1/1	A0
SCALE	SHEET	REV.							
NONE	1/1	A0							
.XX±0.10	.XX°±	DR: L L. Wei							
.XXX±	.XXX°±								



江阴市源达电工材料有限公司

JIANGYIN CITY YUANDA ELECTRICAL MATERIAL CO., LTD.

中国江苏省江阴市青阳镇南陈村 邮编 214401

Nachen, Qingyang Town, Jiangyin City 214400, Jiangsu, China

客户/ Customer: 点正电子

客户料号/ Customer P/N: \_\_\_\_\_

# 规格书

## Specification

50  $\Omega$  (FEP) 绝缘射频电缆

50  $\Omega$  FEP Insulated Coaxial Cable

YD113 系列

YD113 SERIES

编制/ Signed by: lai cool

编制日期/ Date: 25<sup>th</sup> November 2010

# 江阴市源达电工材料有限公司

JIANGYIN CITY YUANDA ELECTRICAL MATERIAL CO., LTD.

中国江苏省江阴市青阳镇南陈村 邮编 214401  
Nachen, Qingyang Town, Jiangyin City 214400, Jiangsu, China

## 1. 适用范围:

Scope

本规格书制定了 50 Ω FEP 绝缘射频电缆 YD113 系列的结构和电气特性。

This specification covers the construction and the electrical properties of YD113 series of 50 Ω FEP Insulation Coaxial Cable.

## 2. 结构/Construction:

单位/Unit:mm

项目/Item	详细资料/Details
导体/Conductor	材料/Material 镀锡铜线/Tinned Copper Wire
	构成(根/mm) Composition(No./mm) 7/0.083
	标称直径/NOM. O. D 0.24±0.03
绝缘层 /Insulation	材料/Material 聚全氟乙丙烯(自然色) /FEP(Natural)
	标称绝缘厚度/Nom. Thick. (mm) 0.23
	标称外径/NOM. O. D 0.695±0.03
屏蔽层/Shield	材料/Material 镀锡铜线/Tinned annealed copper wire
	构成/Composition 0.05 单线编织/Single Braid of 0.05
护套/Jacket	材料/Material 聚全氟乙丙烯/FEP
	标称护套厚度/ Nom. Thick (mm) 0.10
	标称外径/Nom. O. D (mm) 1.13±0.05
	颜色/Color 按与客户确认的颜色/According to corresponding have approved by the suppliers and customers

## 3. 电气特性(20℃时)/Electrical Properties(at 20℃)

项目/Item	单位/Unit	详细资料/Details
导体电阻/Conductor Resistance	Ω/km	Max. 560
绝缘电阻/Insulation Resistance	MΩ.km	Min. 200
耐压强度/Dielectric Strength	V(AC)/min	1000
静电容/Capacitance	pF/m	98
特性阻抗 /Characteristic Impedance	Ω	50±2.0

# 江阴市源达电工材料有限公司

JIANGYIN CITY YUANDA ELECTRICAL MATERIAL CO., LTD.

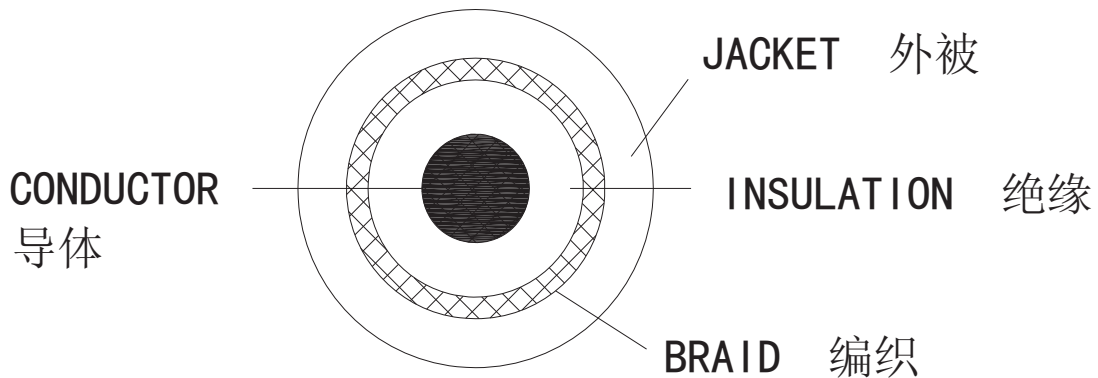
中国江苏省江阴市青阳镇南陈村 邮编 214401  
Nachen, Qingyang Town, Jiangyin City 214400, Jiangsu, China

衰减/Attenuation	dB/m	1GHz	2.20
		2GHz	3.15
		3GHz	3.90
		4GHz	4.60
		5GHz	5.20
		6GHz	5.70
驻波比/Standing wave (0-6GHz)	/	≤1.35	

#### 4. 包装 Packing

标准单位包装长度为 1000 米/盘, 每盘最多允许 5 个接头, 接头最短长度 20 米, 在搬运过程中不能损坏包装.

Standard unit length of finished cable shall be 1000m on reel, frequency of joint max.5/reel, the mini length is 20m. The finished cable shall be packed not be damaged during transportation



\*\*\*\*\*

本产品有时不适合车载用途的情况也有,所以使用前请先和本公司业务部门进行商谈.  
This product is not suitable for automobile application in some cases. Please contact with our sales department before you use this product.

\*\*\*\*\*

规格书完  
End of specification