

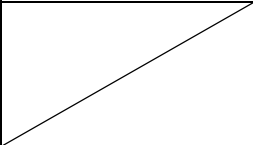
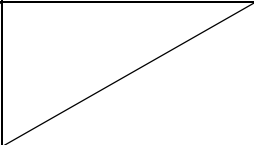

DOC. NO	C-050501	ANTENNA SPECIFICATION	REV. NO	0
Issued Date	2005-05-06		PAGE	1/10

Product Name : 2.4GHz Band 1/2λ Sleeve Dipole Antenna

Model Name: CWP-2400D-SMA(V)

### Contents

1. Descriptions
2. Application
3. Antenna Shape
4. Electrical Performance
5. Mechanical Performance
6. Environmental Performance
7. Attachment

Release				
Sign.	Written	Checked	Checked	Approved
	J.R.Park			
Date	2005-05-06			

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### 1. Descriptions

This 2400MHz Band 1/2wavelength Sleeve Dipole Antenna designed in the PCB, consisting of the 1/2 wavelength whip elements at the front plane and a 1/4 wavelength conductive matching sleeve having 50 ohm feed to connector at the back, for wireless communication unit.

### 2. Application

☐ Hand Held    ☒ Fixed    ☐ Mobile    ☐ Out Door    ☒ In Door    ☐ Others

### 3. Antenna Shape

See attached

### 4. Electrical Performance

#### 4.1 Frequency Range

2400 MHz ~ 2480 MHz

#### 4.2 Impedance

Nominal Value      50 Ohm

#### 4.3 V.S.W.R

Less than    1 : 2.0

#### 4.4 Antenna Radiation Pattern

Omni-Directional

#### 4.5 Antenna Polarization

Vertical

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#### 4.6 Antenna Gain ( dBi )

2.0 dB

### 5. Mechanical Performance

#### 5.1 Element

Material	Cu
Insulator	FR-4 / 0.8T
Electrical Length	1/2 Wavelength

#### 5.2 Connector

Type	SMA-male
Finish	Ni-plating

#### 5.3 Base

Type	90 deg. Angled insert molding
Material	ABS
Finish	Dark-Blue

#### 5.4 Sleeve

Material	ABS
Finish	Dark-Blue

#### 5.5 Antenna total length

See Attached

#### 5.6 Antenna Weight

7.5 gram

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## 6. Environmental Resistance Performance

### 6.1 Operating Temperature

– 30℃ ~ 70℃

### 6.2 Storage Temperature

– 40℃ ~ 80℃

### 6.3 Humidity

95% RH / 50℃

### 6.4 Sleeve Tensile strength

Minimum Value : F = 5 Kgf

Demands : No visual change and the fitting and mold shall be unchanged mechanically during the test.  
The antenna shall satisfy the electrical data.

### 6.5 Drop

Height : 0.7 m

Angle : 45°

Set Weight : 200 g

Demands : No visual change and the fitting and mold shall be unchanged mechanically during the test.  
The antenna shall satisfy the electrical data.

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## 7. Attached

1. Antenna Specifications Drawing
2. Antenna Performance Data
  - V.S.W.R
  - Impedance
  - Radiation Pattern / Gain

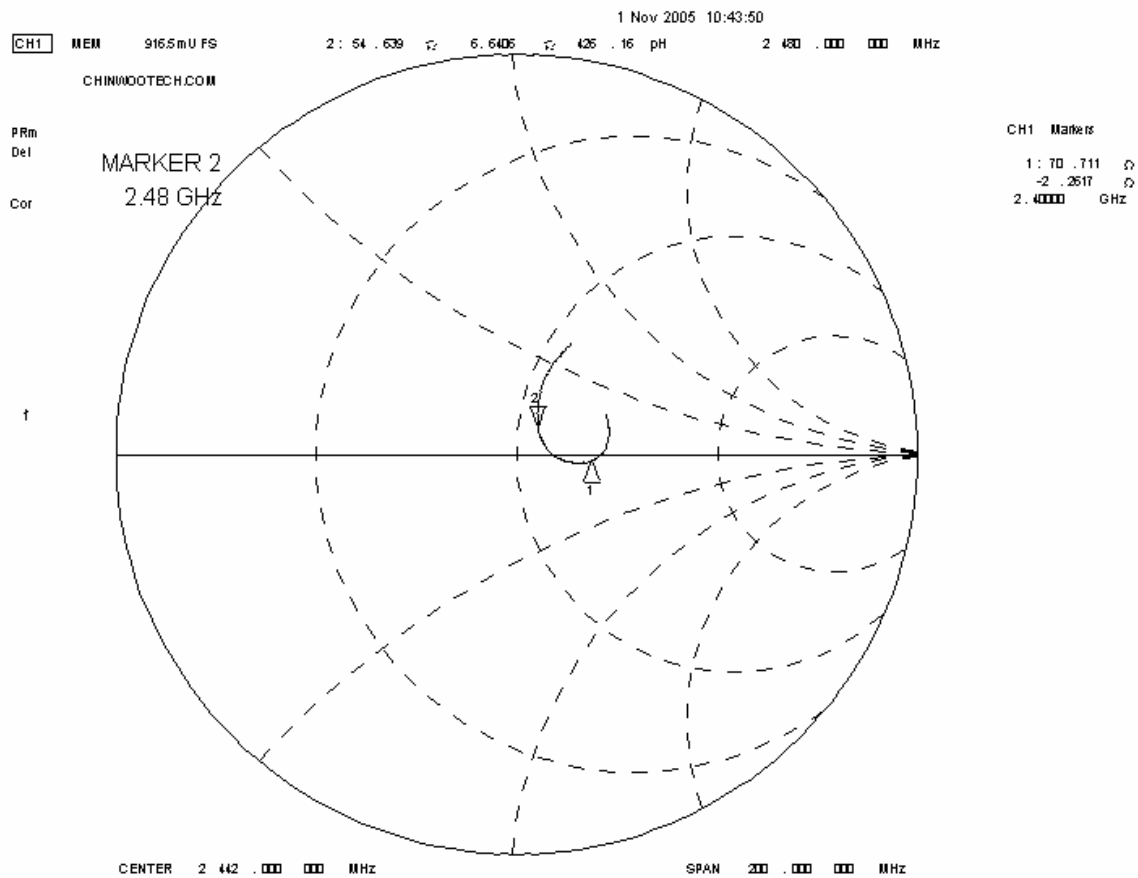


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2. Antenna Performance Data

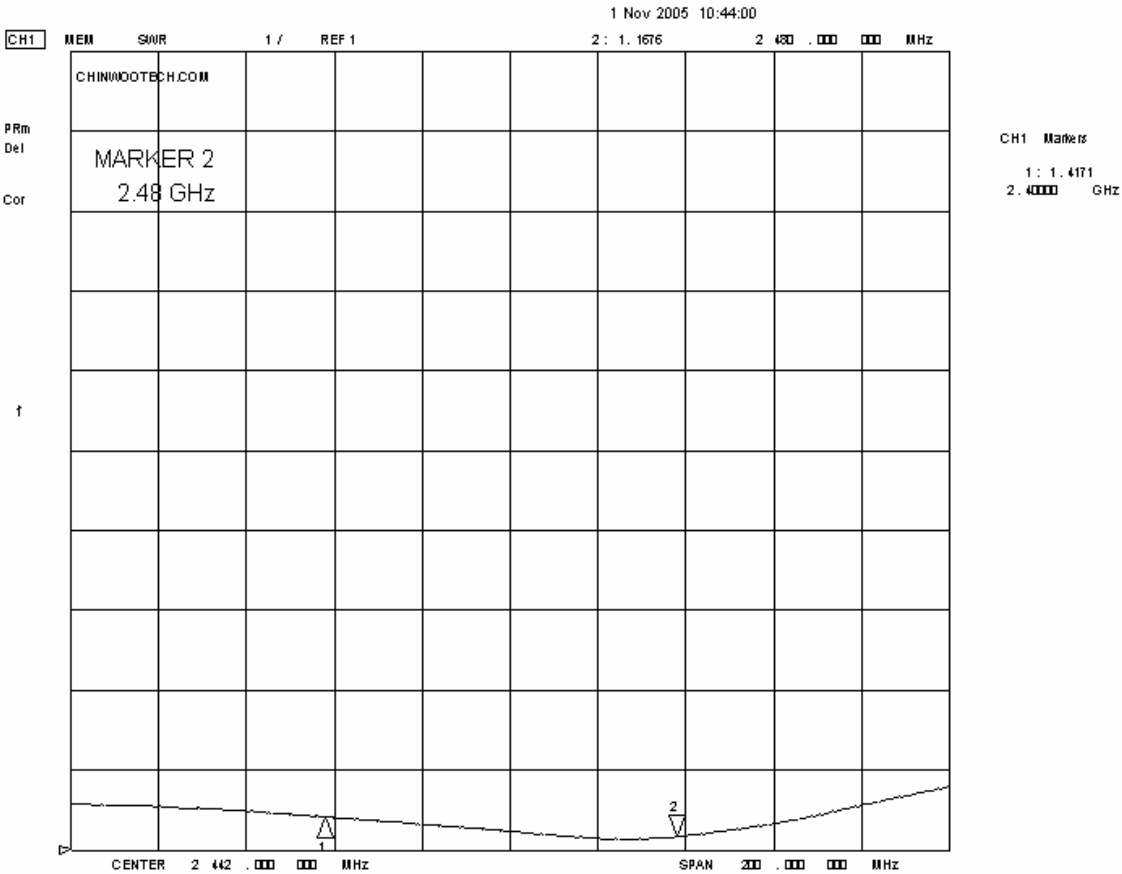
Test Equipment : HP-8753ES  
SET (PCB ver.) : BS-T100V v4.D

- . Impedance



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-. V.S.W.R

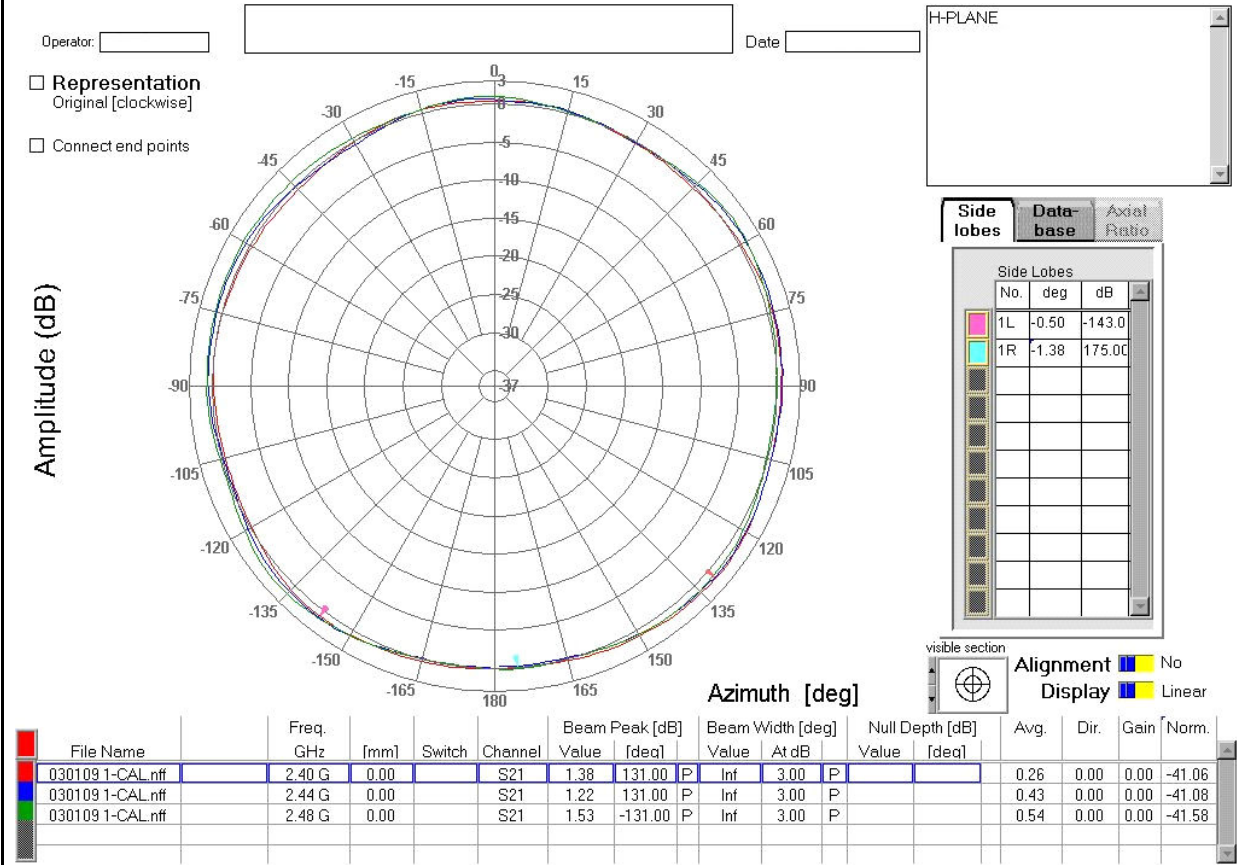




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-. RADIATION PATTERN / GAIN

H-PLANE



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E-PLANE

