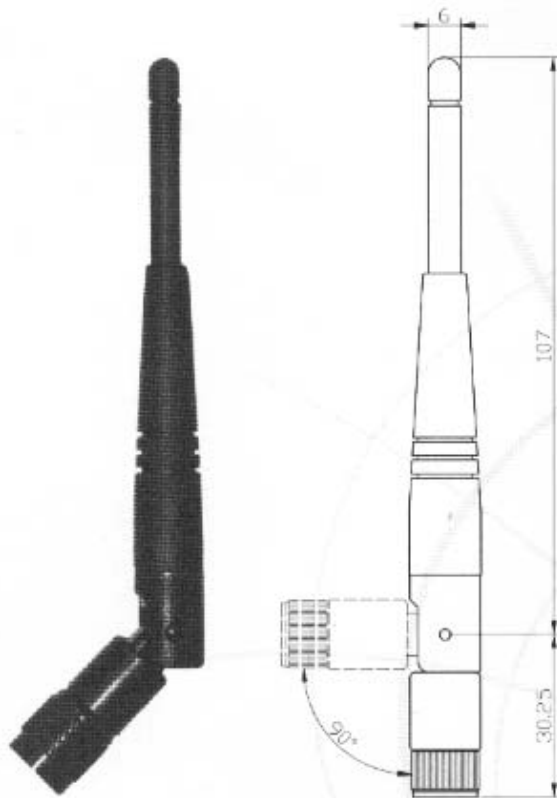


# 2.4GHz Swivel Antenna

# IW-144



Unit: mm

## TECHNICAL DATA

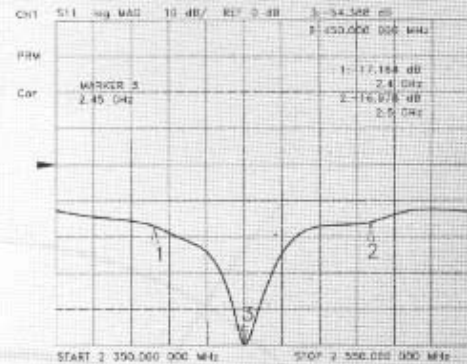
### ● Electrical Properties

Frequency Range	: 2.4 ~ 2.5GHz
Impedance	: 50 Ohms nominal
SWR	: $\leq 2.0$
Gain	: 2.0 dBi
Radiation	: Omni
Polarization	: Vertical
Electrical Wave	: $1/4 \lambda$ Dipole

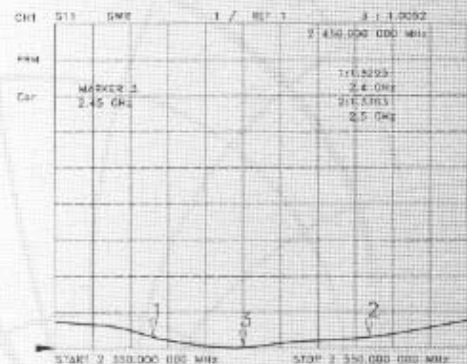
### ● Mechanical Properties

Standard Connector	: Reverse SMA or Reverse TNC
Antenna Cover	: Polyurethane
Swivel Mechanism	: Polycarbonate
Color	: Black
Operation Temperature	: $-20^{\circ}\text{C} \sim +65^{\circ}\text{C}$
Storage Temperature	: $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$

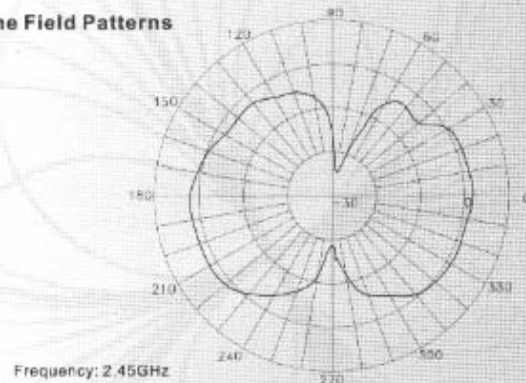
### Return Loss



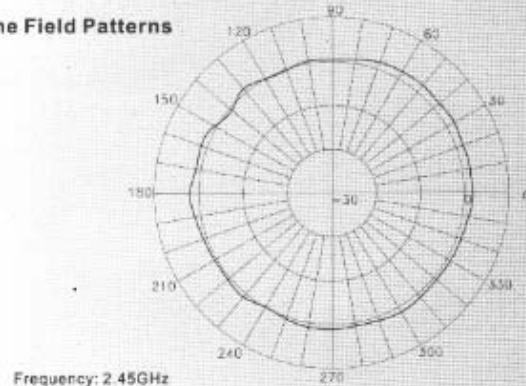
### SWR

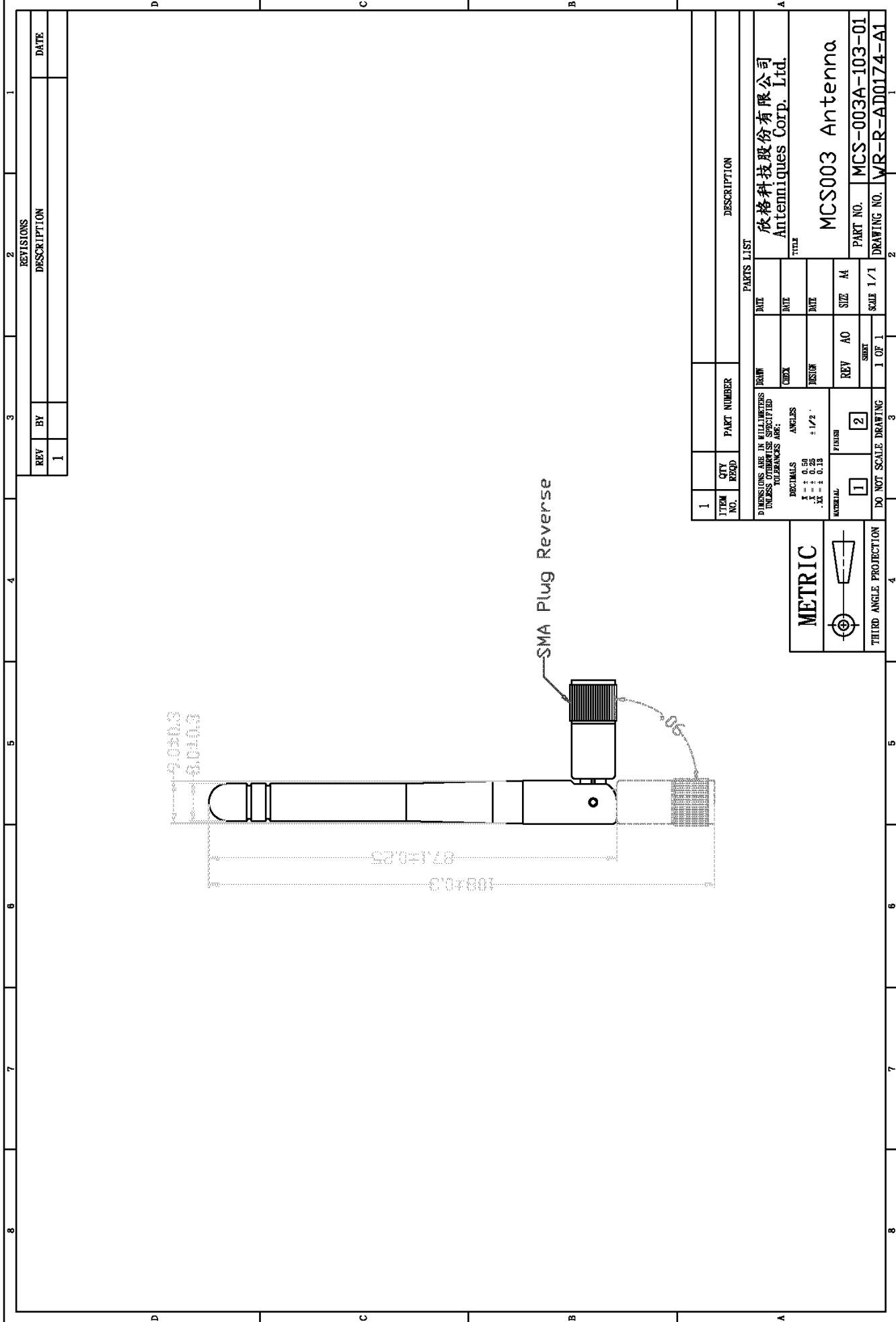


### E-Plane Field Patterns



### H-Plane Field Patterns





REV		BY		DATE	
1					

REV		BY		DATE	
1					

ITEM NO.	QTY REQD	PART NUMBER	DESCRIPTION
1			

PARTS LIST		TITLE	
UNIT	DRWF	欣格科技股份有限公司 Antenniques Corp. Ltd.	
UNIT	CBDX		
UNIT	RESUR		
REV	AO	SIZE	AA
1	2		
SHEET		SCALE 1/1	
1 OF 1			

**METRIC**

THIRD ANGLE PROJECTION

DIMENSIONS ARE IN MILLIMETERS  
UNLESS OTHERWISE SPECIFIED  
TOLERANCES ARE:

DECIMALS ANGLES  
 F ± 0.50 ± 1/2°  
 .X ± 0.25 ± 1/2°  
 .XX ± 0.13

MATERIAL FINISH

1 2

DO NOT SCALE DRAWING

# TECHNICAL DATA

## ● Electrical Properties

---

Frequency Range : 2.4~2.5GHz

Impedance : 50 Ohm nominal

VSWR :  $\leq 2.0$

Gain : 3dBi

Radiation : Omni

Polarization : Vertical

Electrical Wave :  $\lambda/4$  Dipole

Connector : SMA Plug Reverse

## ● Mechanical Properties

---

Antenna Cover : PU

Color : Black

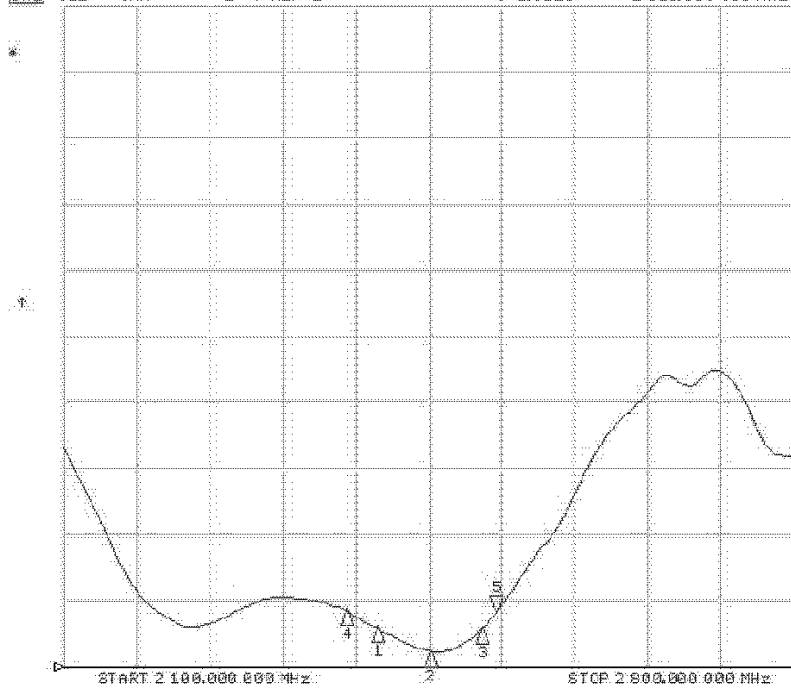
Operation Temperature :  $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Storage Temperature :  $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$

# VSWR

23 Apr 2002 09:45:13

CHI S22: SWR 1 / REF: 1 5: 1.8123 2: 513.560 000 MHz



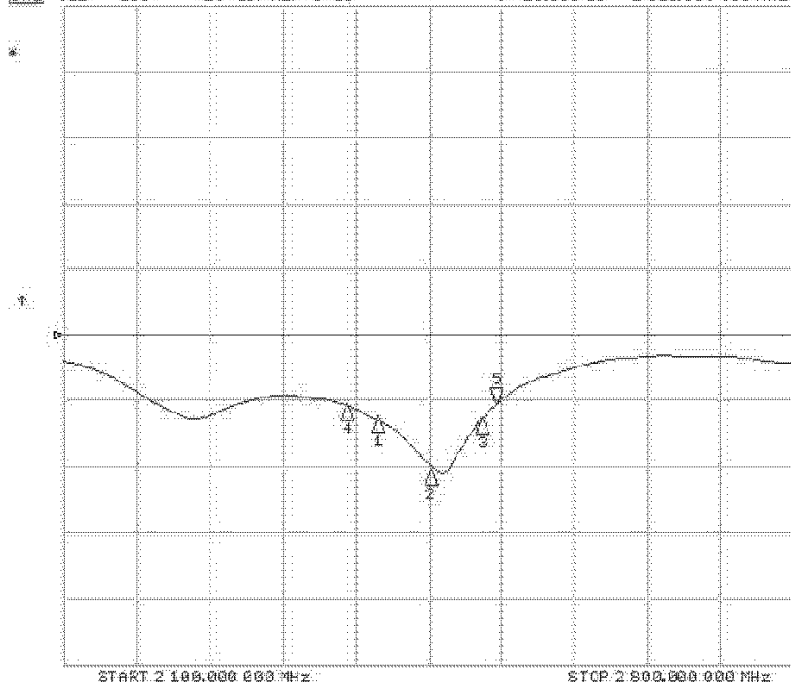
CHI Markers

- 1: 1.5974  
2.40000 GHz
- 2: 1.2134  
2.45000 GHz
- 3: 1.5917  
2.50000 GHz
- 4: 1.8539  
2.55970 GHz

# Return Loss

23 Apr 2002 09:44:47

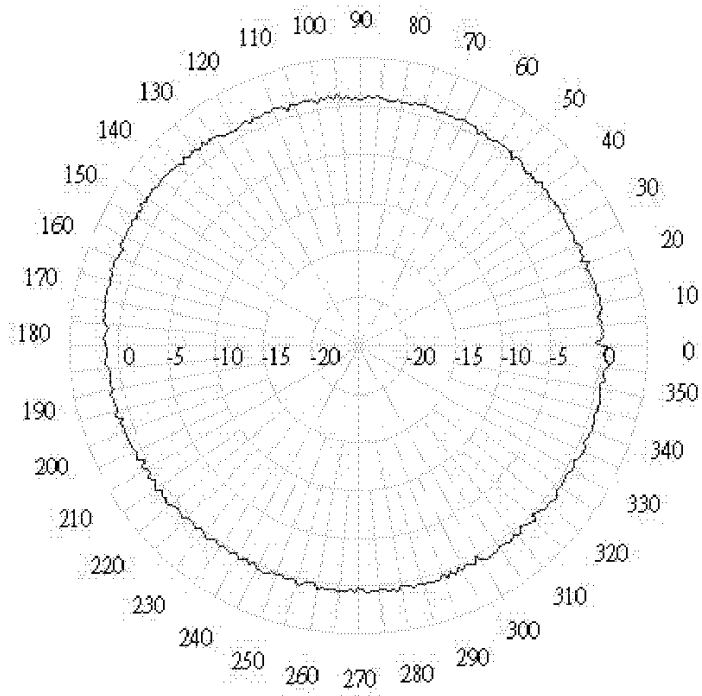
CHI S22: L08 .10 dB/REF: 0 dB 5: -19.350 dB 2: 513.560 000 MHz



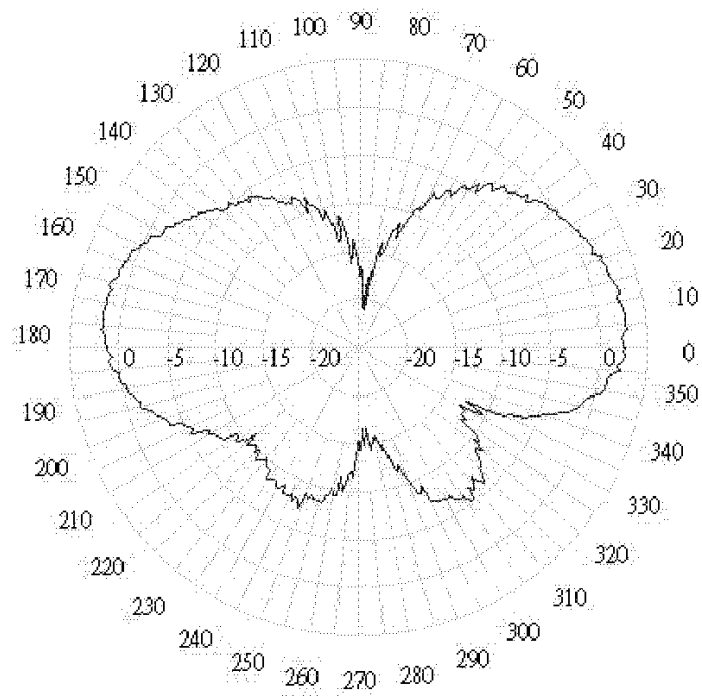
CHI Markers

- 1: -12.525 dB  
2.40000 GHz
- 2: -20.485 dB  
2.45000 GHz
- 3: -12.610 dB  
2.50000 GHz
- 4: -10.570 dB  
2.55970 GHz

## H-Plane

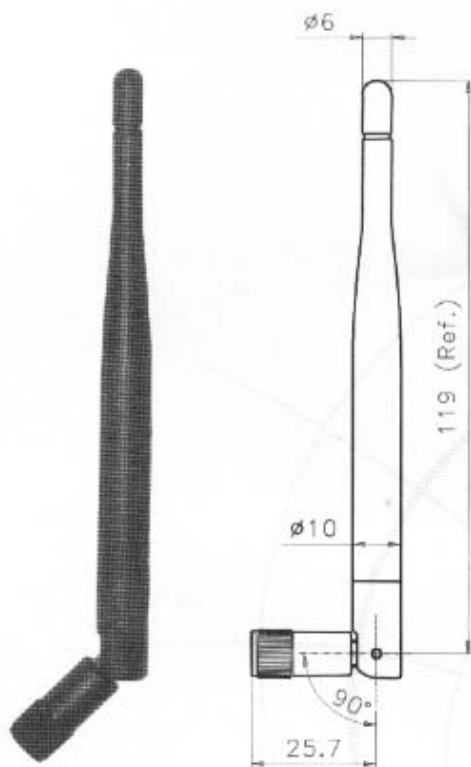


## E-Plane



# 2.4GHz Swivel Antenna

# IW-152



Unit: mm

## TECHNICAL DATA

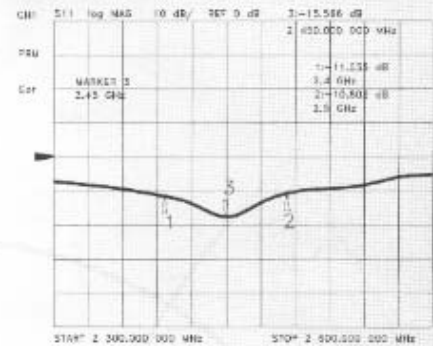
### Electrical Properties

Frequency Range	: 2.4 ~ 2.5GHz
Impedance	: 50 Ohms nominal
SWR	: ≤ 2.0
Gain	: 4.0 dBi
Radiation	: Omni
Polarization	: Vertical

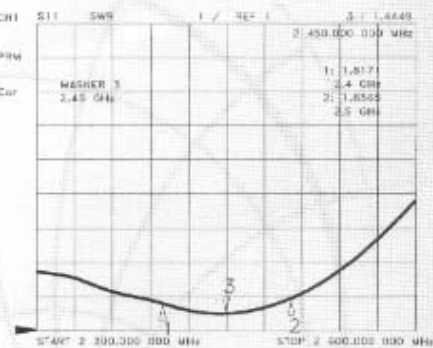
### Mechanical Properties

Connector	: Reverse SMA
Antenna Cover	: Polyurethane
Swivel Mechanism	: Polycarbonate
Color	: Black
Operation Temperature	: -20° C ~ +65° C
Storage Temperature	: -30° C ~ +75° C

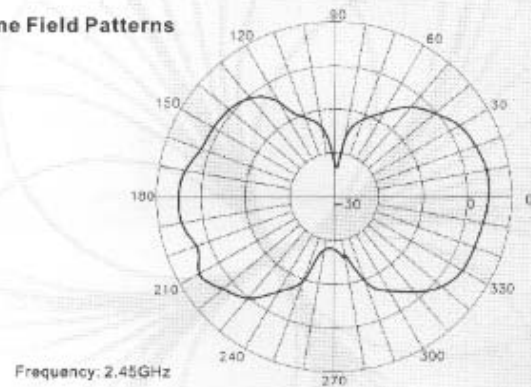
Return Loss



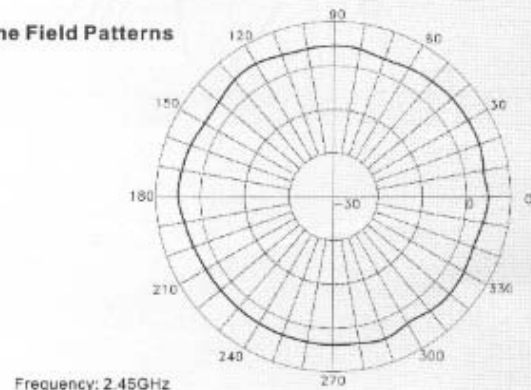
SWR



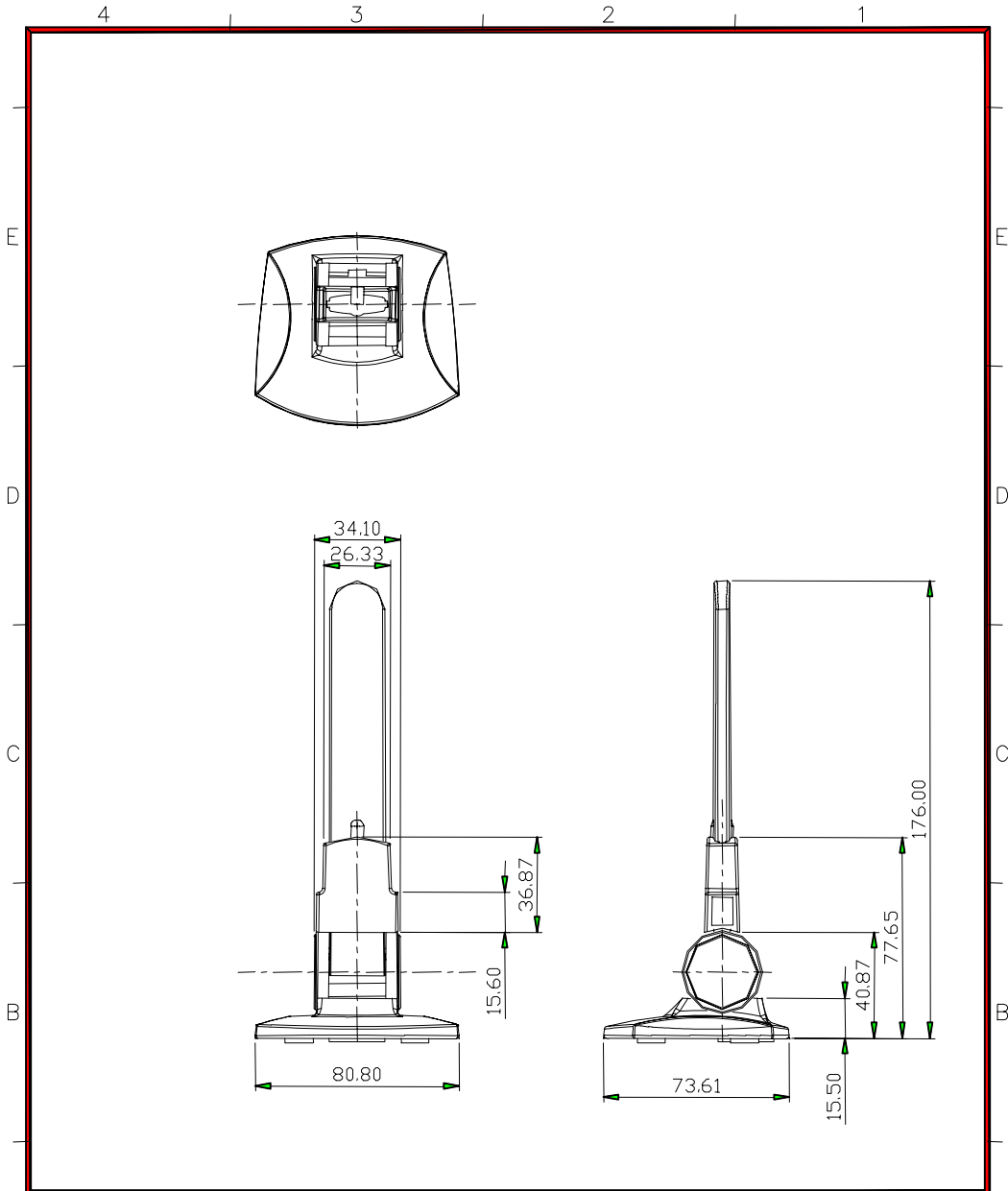
E-Plane Field Patterns



H-Plane Field Patterns



**Dimension**



材 質 MATERIAL	PC/ABS	處 理 TREATMENT	蝕花			機 型 MODEL	NAS-T0405(Ambit)	
單 位 UNIT	mm	比 例 SCALE	1/1	數 量 QUANTITY	1PCS	圖 名 NAME	造型天線外觀尺寸圖	
設 計 DESIGN	製 圖 DRAWN	檢 圖 CHECKED	核 准 APPROVED	日 期 DATE		圖 號 DWN NO.		
林金燕	林金燕			92.5.15		料 號 BOM NO.		

## Antenna

### Electric properties

1. Frequency Range..... 2.4~2.4835GHz  
5.15~5.35GHz  
5.725~5.825Ghz
2. Impedance..... 50 Ohms nominal
3. SWR..... 2.0
4. Return Loss..... -10 dB
5. Antenna Gain..... 4 dBi@2.4Ghz  
5 dBi@5Ghz
6. Total Gain with Cable Loss..... 1.5dBi@2.4Ghz  
1.5dBi@5.2Ghz  
1.0dBi@5.7Ghz
7. Polarization..... Vertical
8. Cable..... RG-316
9. Cable Length..... 150cm

### Mechanical Properties

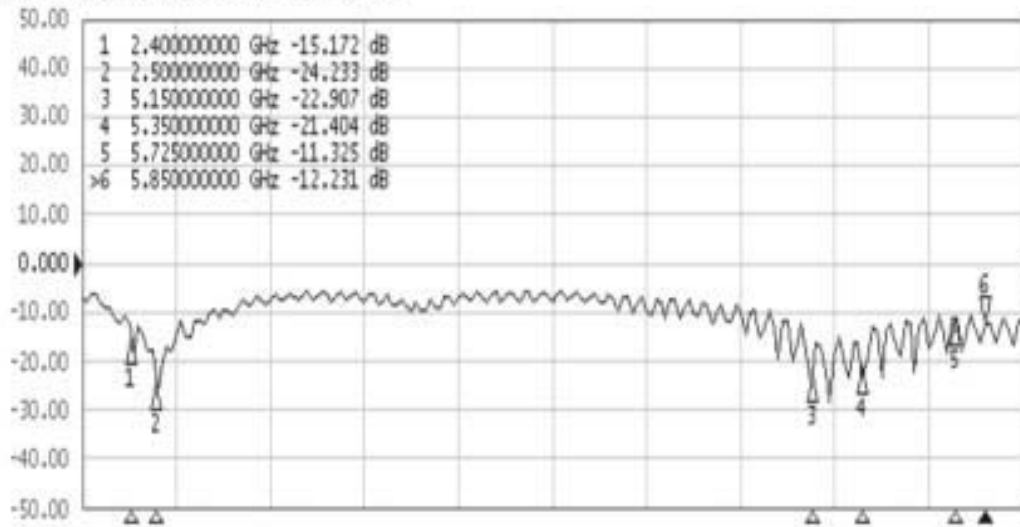
1. Connector Type..... SMA M(rp)
2. Material..... ABS+ PC
3. Color..... White
4. Operation Temperature..... -20°C+65°C
5. Storage Temperatue..... -30°C+80°C
6. Weight..... 143g



## Test Report

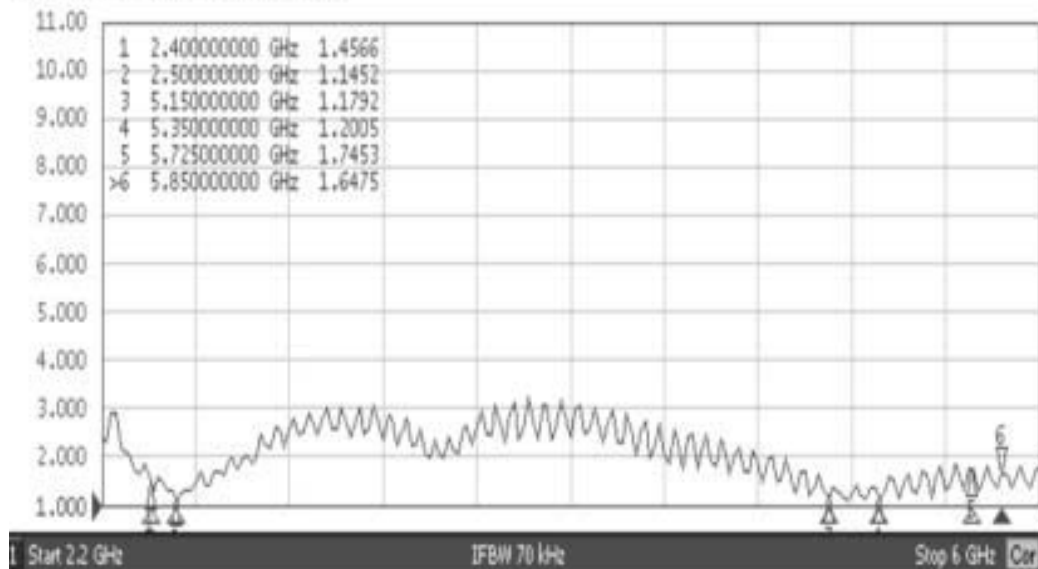
### Return Loss

Tr1 S44 Log Mag 10.00dB/ Ref 0.000dB [R0]



### SWR

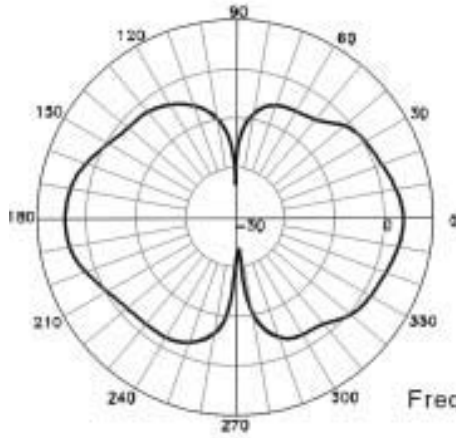
Tr2 S44 SWR 1.000/ Ref 1.000 [R0]



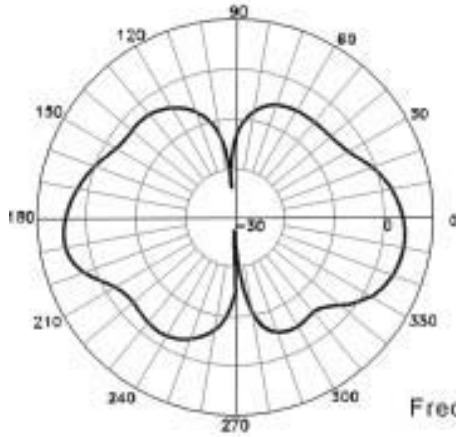
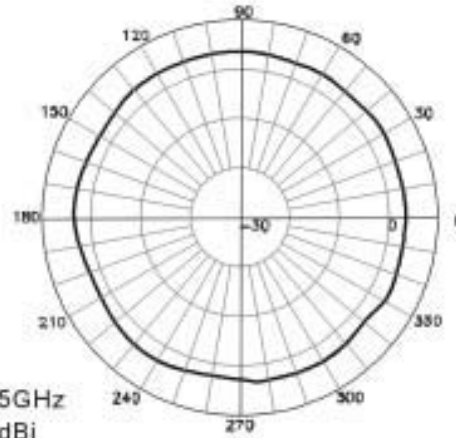
# Test Report

## E-Plane Field Patterns

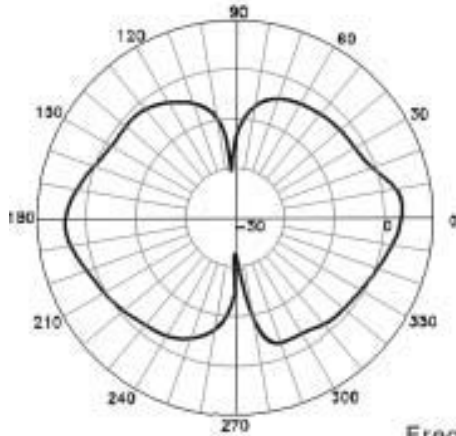
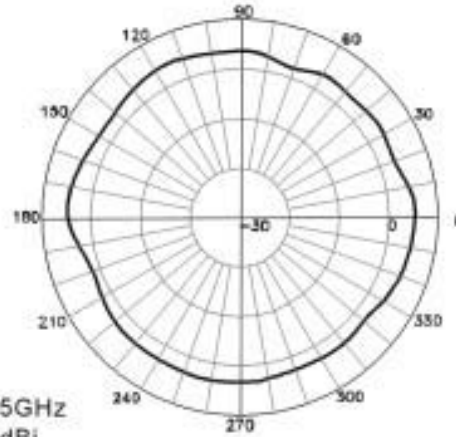
## H-Plane Field Patterns



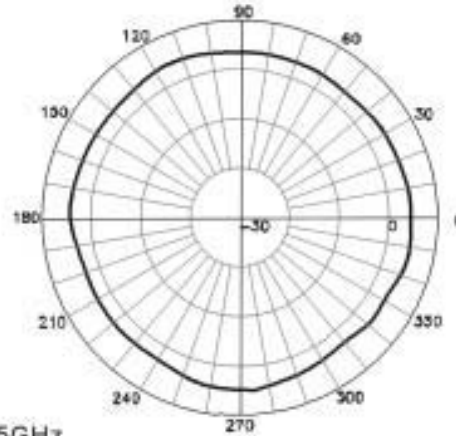
Frequency: 2.45GHz  
Gain: 4.0dBi



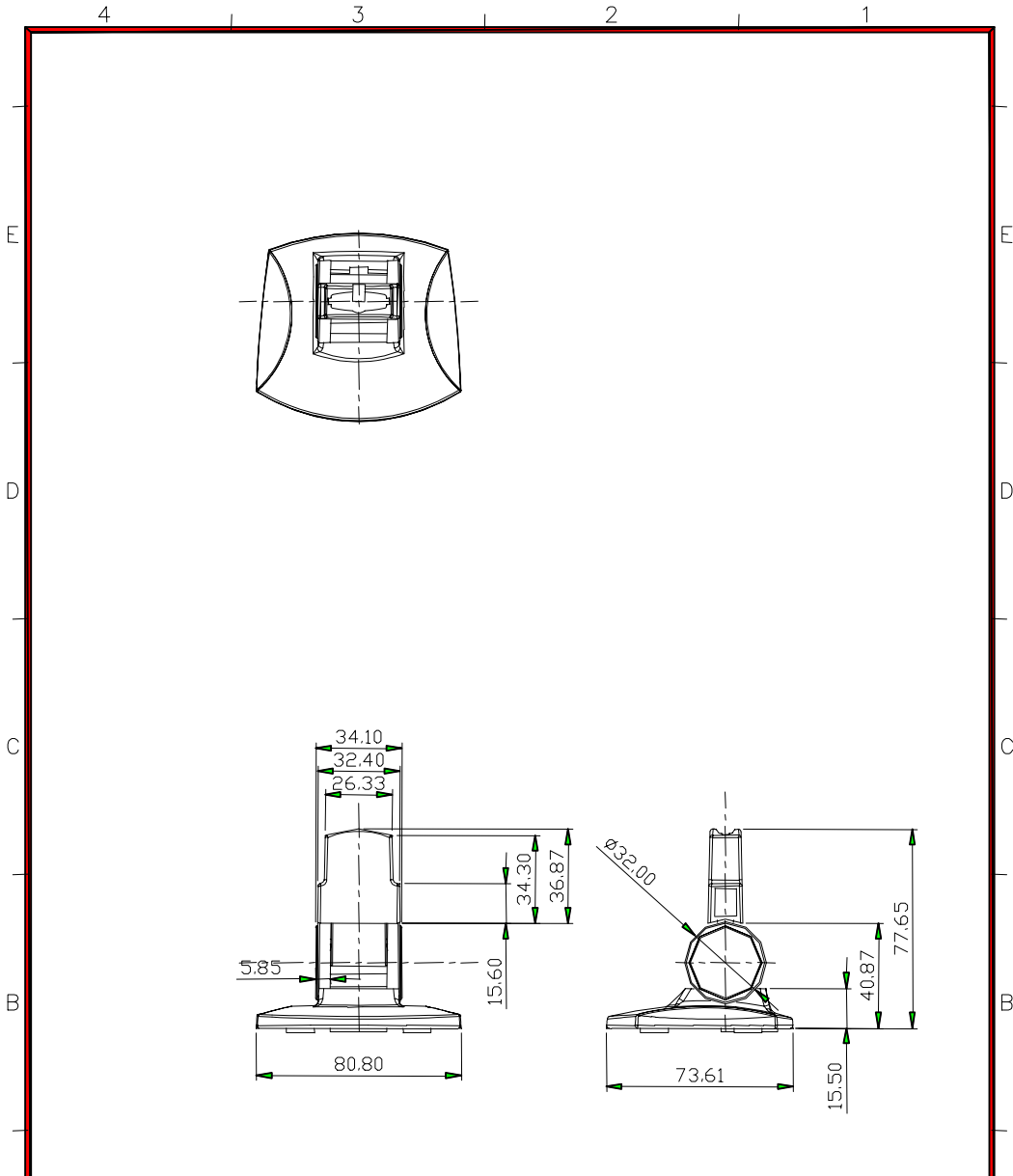
Frequency: 5.25GHz  
Gain: 5.0dBi



Frequency: 5.75GHz  
Gain: 4.5dBi



**Dimension**



材 質 MATERIAL	PC/ABS	處 理 TREATMENT	蝕花			機 型 MODEL	NAS-T0405(Ambit)
單 位 UNIT	mm	比 例 SCALE	1/1	數 量 QUANTITY	1PCS	圖 名 NAME	天線座外觀尺寸圖
設 計 DESIGN	製 圖 DRAWN	檢 圖 CHECKED	核 准 APPROVED	日 期 DATE		圖 號 DWN NO.	
林金燕	林金燕			92.5.15		料 號 BOM NO.	