

GPS ANTENNA

MODEL : AKA150 SMA

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## 1. 제품 사양

### 1.1 전기적 사양

<b>ANTENNA ELEMENT</b>	
Center Frequency	1575.42 MHz
Polarization	R.H.C.P.
Gain @ Zenith	+2 dBi typical at GP : 60x60mm
Axial Ratio	6.0dB max at GP : 60x60mm (at Center Frequency)
Polarization	R.H.C.P
Impedance	50Ω
<b>LOW NOISE AMPLIFIER</b>	
Frequency	1575.42 ±1.023 MHz
VSWR	Less than 2.0
Impedance	50Ω
LNA Gain	26 dB ±3 dB
Noise Figure	2.0dB (max) typical 1.0dB
Band Attenuation	20dB min @Fo ±50 MHz
Voltage	DC +3 ~ 5V
Current	20mA (max)

### 1.2 기구적 사양

Division	Description	Remark
Weight		
Height	13.3mm	
Width	43.8 x 35.5mm	Black Color
Cover Material	PC / ABS	
Cover Logo	None	
Cable	RG174 x 2M	Black Color
Connector	SMA MALE S/T	GOLD PLATE
Mounting	Magnetic Base	

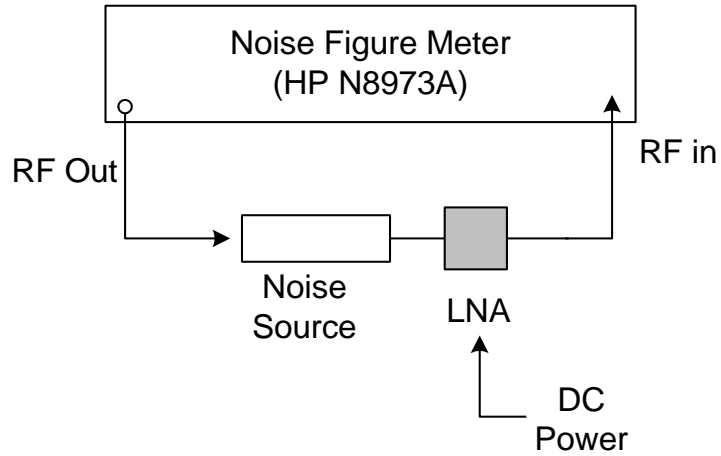
## 2. 측정방법

### 2.1 LNA Gain & Noise Figure & Current 측정

#### 2.1.1 측정 장비

Multi-meter(or 전류계), Power Supply, Bias Tee, Noise Figure Analyzer

#### 2.1.2 측정 구성도

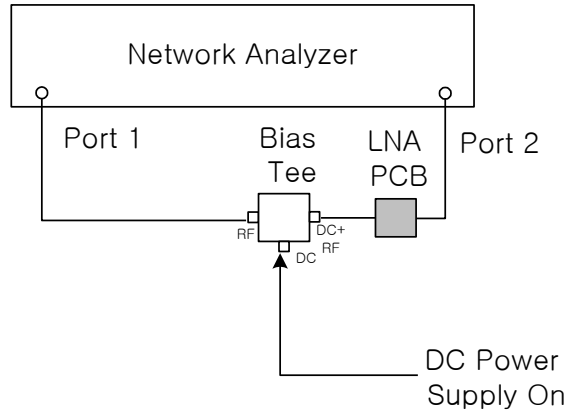


## 2.2 VSWR 측정

### 2.2.1 측정 장비

Multi-meter(or 전류계), Power Supply, Bias Tee, Network Analyzer

### 2.2.2 측정 구성도

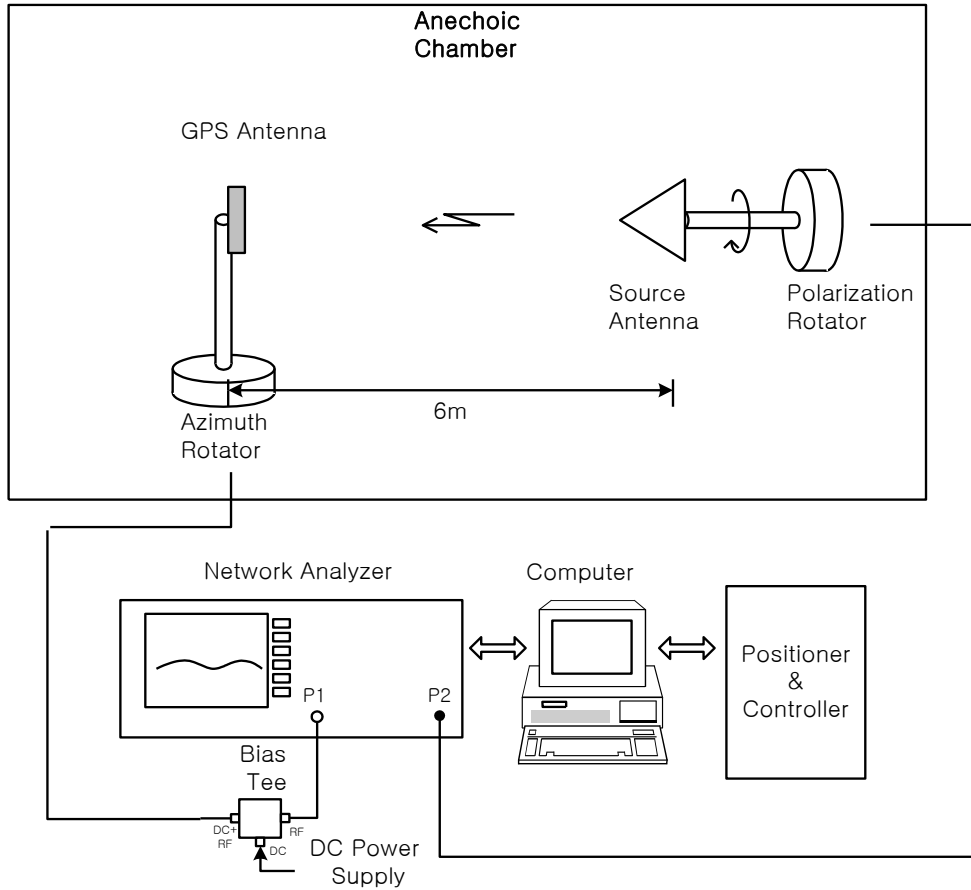


## 2.3 Overall Gain & Axial Ratio 측정

### 2.3.1 측정 장비

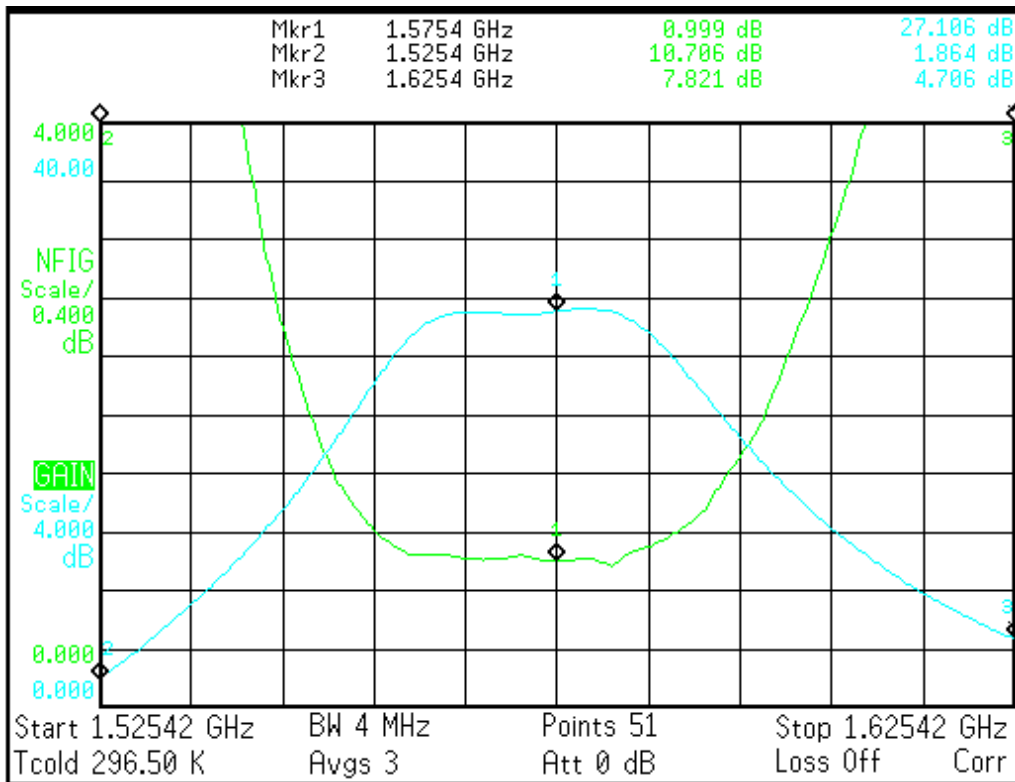
전파무반사실, Network Analyzer, PC, Far-Field Antenna Measurement Software (FR / Orbit), Positioner, Rotator, Standard Gain Horn Antenna, Source Antenna, Bias Tee, DC Power Supply

### 2.3.2 측정 구성도

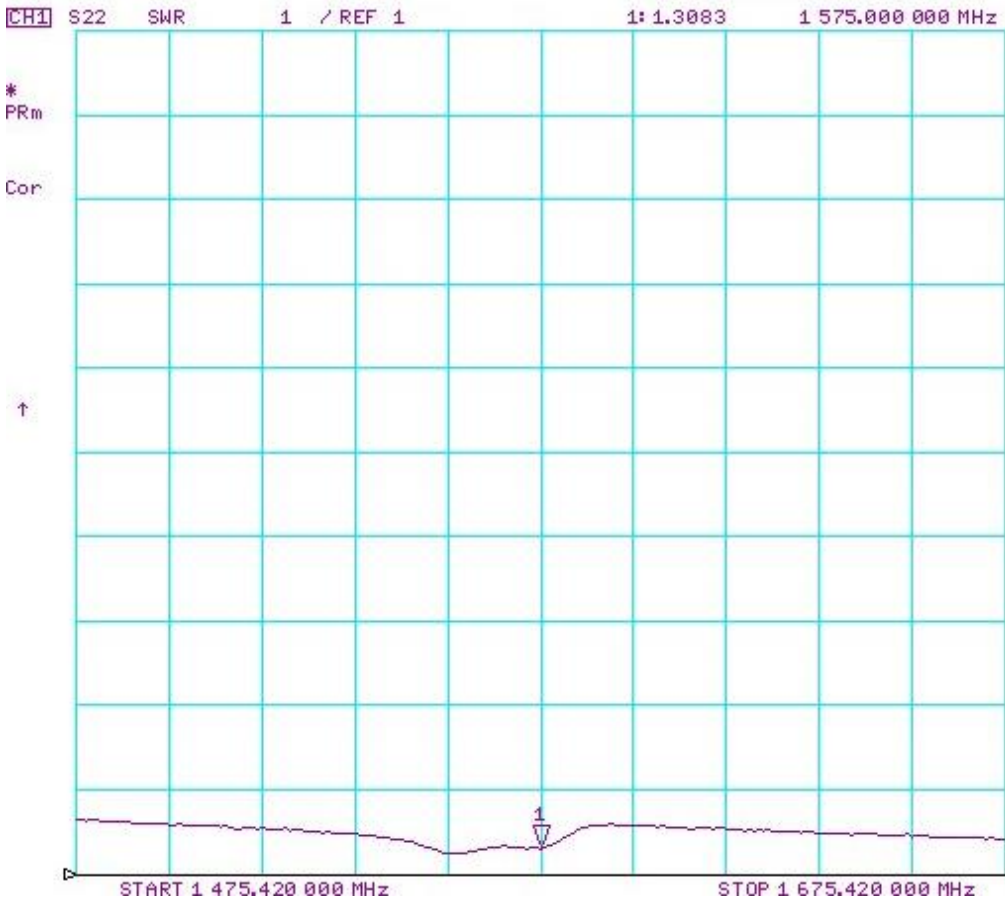


### 3. 표준 측정 DATA

#### 3.1 Gain 및 Noise Figure



3.2 VSWR DATA





#### 4. 포장사양

##### 4.1 포장 사양

- 당사의 GPS ANT. 기본 포장사양을 따른다.

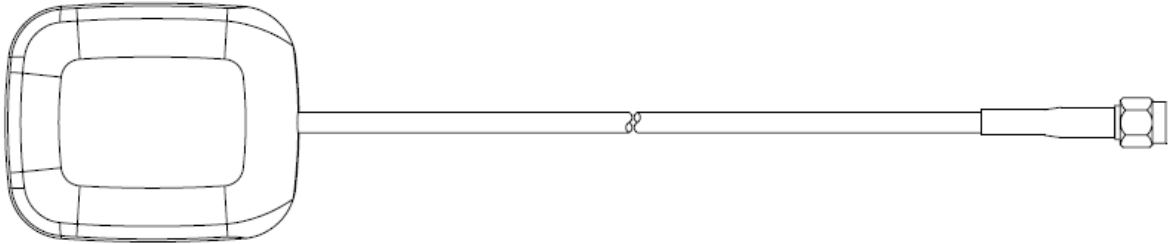


그림 1)

- (1) 그림 1)의 제품을 정전 방지용 포장비닐(910-02-002-005)에 넣는다.

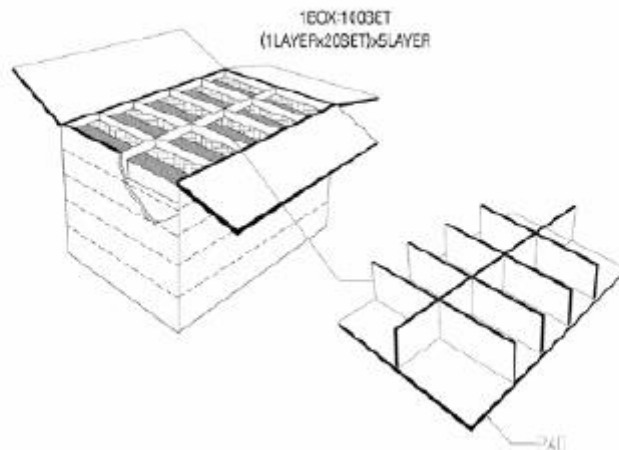


그림 2)

- (2) (1)의 제품을 그림2)와 같이 OUT BOX(910-01-001-020)에 제품을 넣어 별크포장한다

감사합니다.