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# 電 氣 規 格 書

機種: ECW270

5718A0136300

ANT 2.4GHz 5dBi Omni N-TYPE ASSEMBLY

日期: 2022/09/01

版次: 1.00

## Dipole Antenna

**5718A0136300**

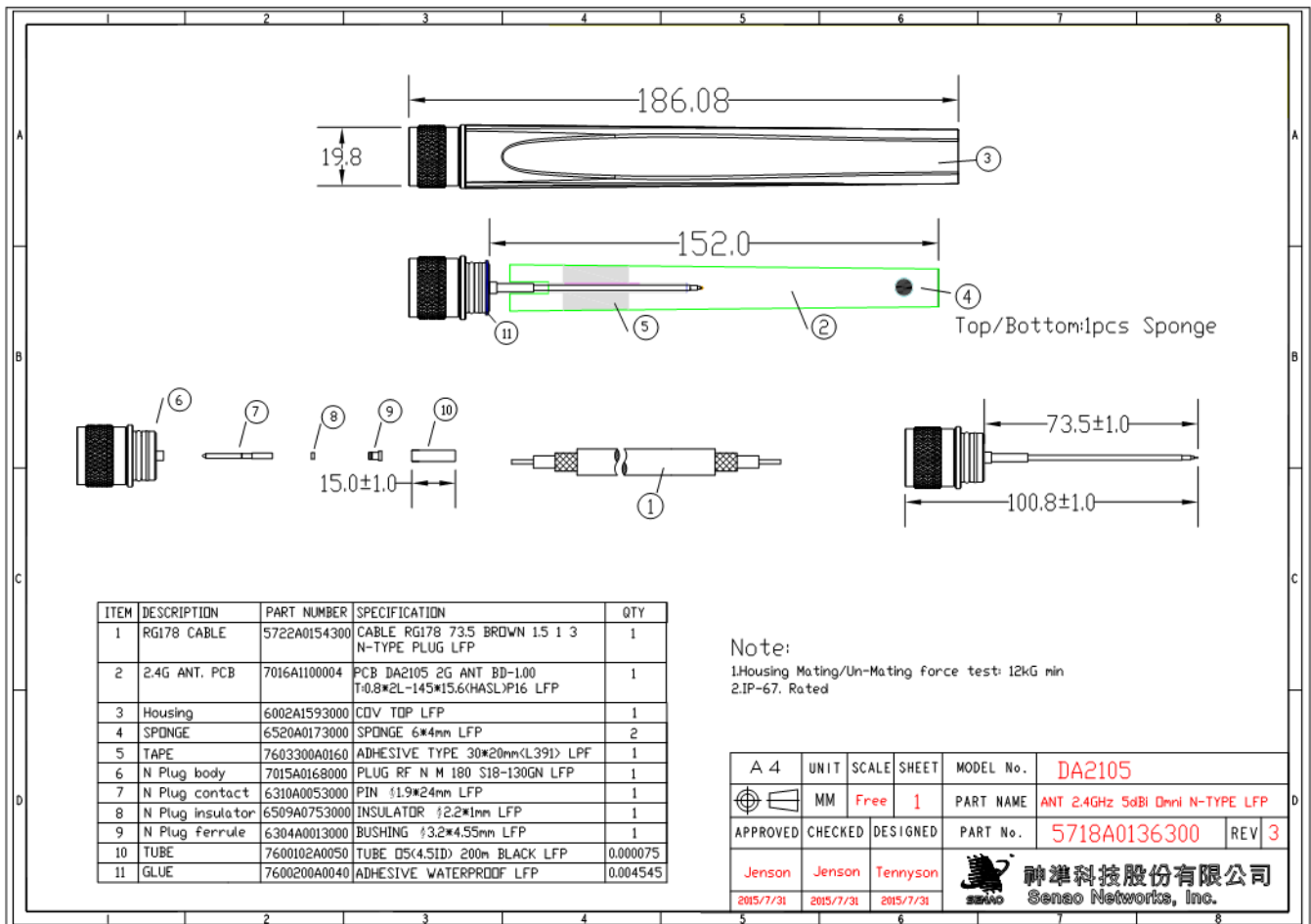
**ANT 2.4GHz 5dBi Omni N-TYPE ASSEM LFP**



### 1. Summary :

Antenna	SPEC.
Frequency (MHz)	2400 - 2500
Peak Gain (dBi)	5
VSWR	2:1
Connector	N-type Plug
Dimension (mm)	186.0x21.2x21.2

## 2. Mechanical Specification:



## Electrical Specification :

### 3-1. Frequency Band:

Frequency Band	MHz
WLAN	2400 ~ 2500

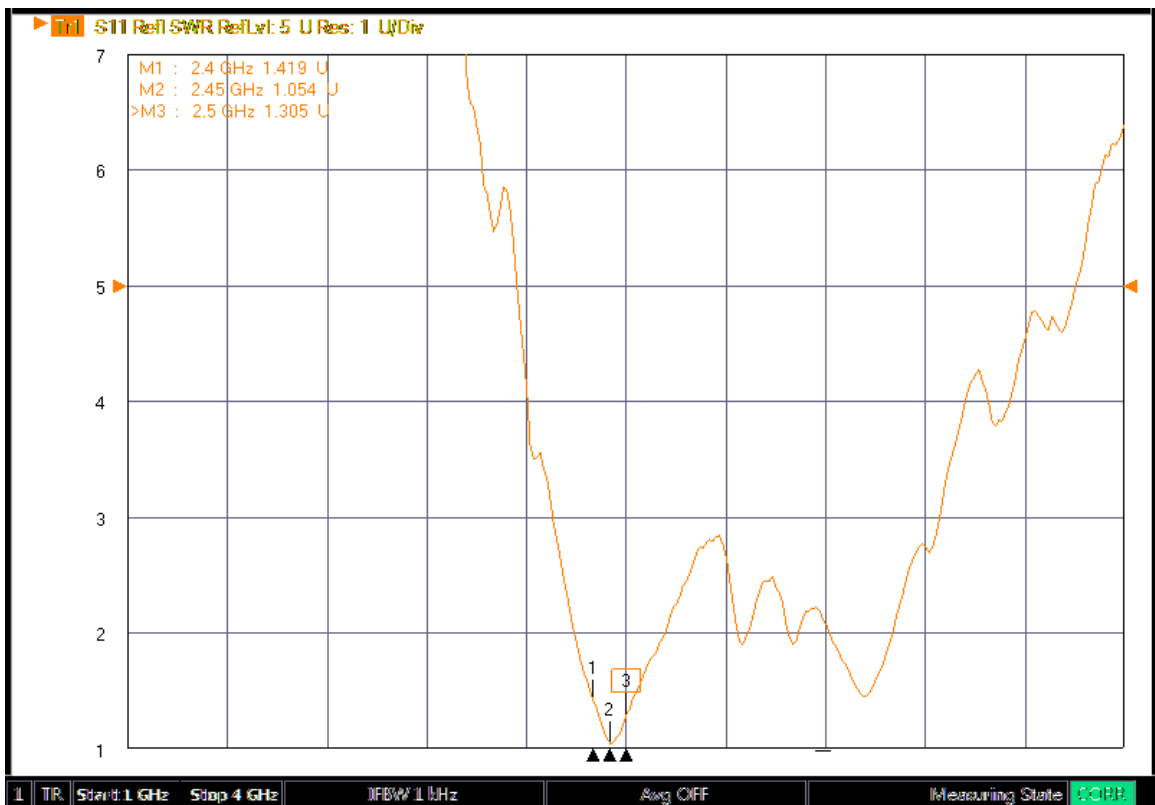
### 3-2. Impedance

50 ohm nominal

### 3-3. Matching circuit:

None

### 3-4. VSWR :



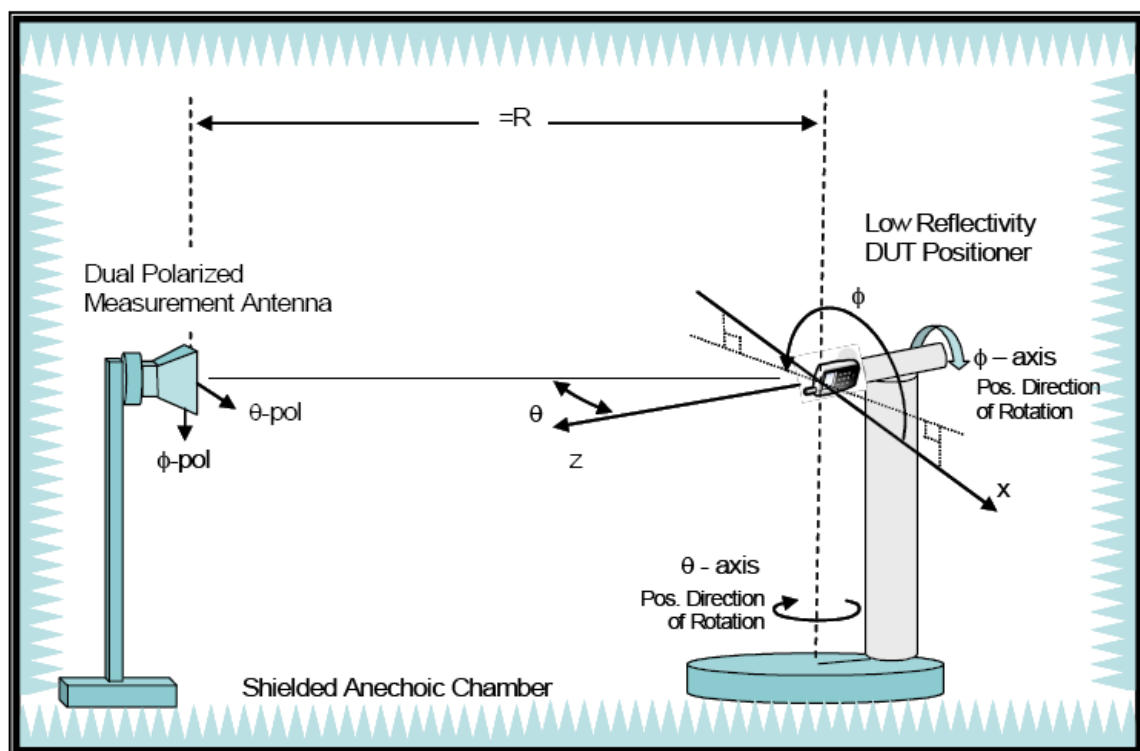
Frequency (MHz)	2400	2450	2500
VSWR	1.41	1.05	1.3

### 3-5. Gain and Radiation Pattern

#### 3-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

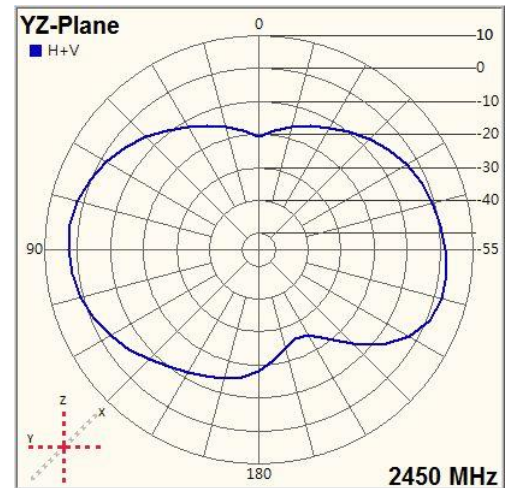
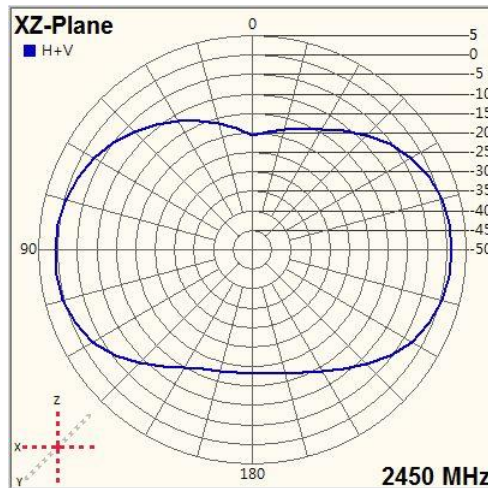
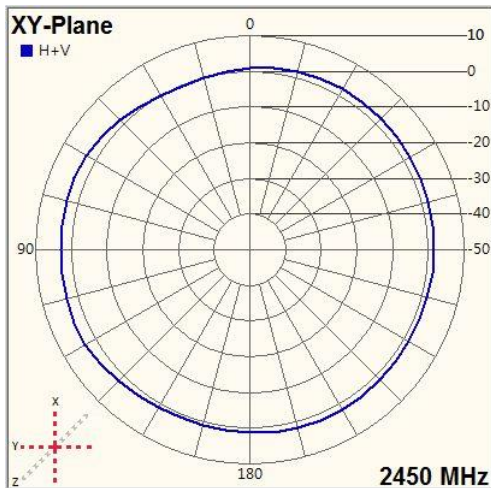
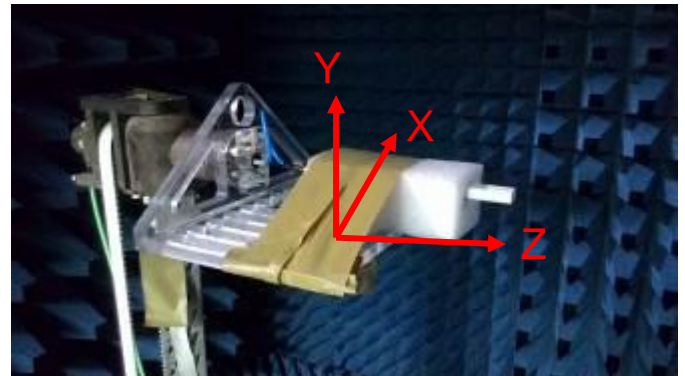
#### 3-5.2 Chamber definition



1. An anechoic chamber (8x4mx4) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet zone region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Standard gain horn antenna (700MHz ~6GHz)

### 3-5.3 Gain data and radiation pattern

Antenna gain is marked [dBi] and is based on STANDARD HORN antenna.  
 The data shows Peak-Gain and Average-Gain.



Frequency (MHz)	2400	2450	2500
Peak Gain (dBi)	4.4	4.6	5.0
Efficiency (%)	75.3	76.7	78.4

## Change history

Change history			
Date	Subject/Comment	Old	New
2022/09/01	Initial Release	N/A	1.00