

# 433-510MHz Monopole Black Whip Antenna-L-Shaped Antenna

## FEATURES



- Designed for both Indoor & Outdoor applications
- Ground Plane dependent
- Small Form Factor



## PRODUCTS

| Part No. | Weight | Dimensions (L x W x H) | Connector   | Color |
|----------|--------|------------------------|-------------|-------|
| AELW009  | 6g     | 47.6*17.2*8.2mm        | RP-SMA Male | Black |

## SPECIFICATIONS

| PARAMETER                          | SPECIFICATION    |
|------------------------------------|------------------|
| Frequency Bands, MHz               | 433-510          |
| VSWR (Max)                         | 5.0:1            |
| Peak Gain, dBi (Typ)               | Up to -1.94      |
| Peak Efficiency,%                  | Up to 36.2       |
| Nominal Impedance                  | 50 $\Omega$      |
| Max Power (ambient temp of 25°C)   | 10 Watts         |
| Azimuth Beam Width (deg)           | Omnidirectional  |
| Polarization                       | Linear           |
| Radome                             | TPE, Black       |
| Storage Temperature Range (°C)     | -40° C to +85° C |
| Operational Temperature Range (°C) | -40° C to +85° C |
| Material Substance Compliance      | RoHS Compliant   |

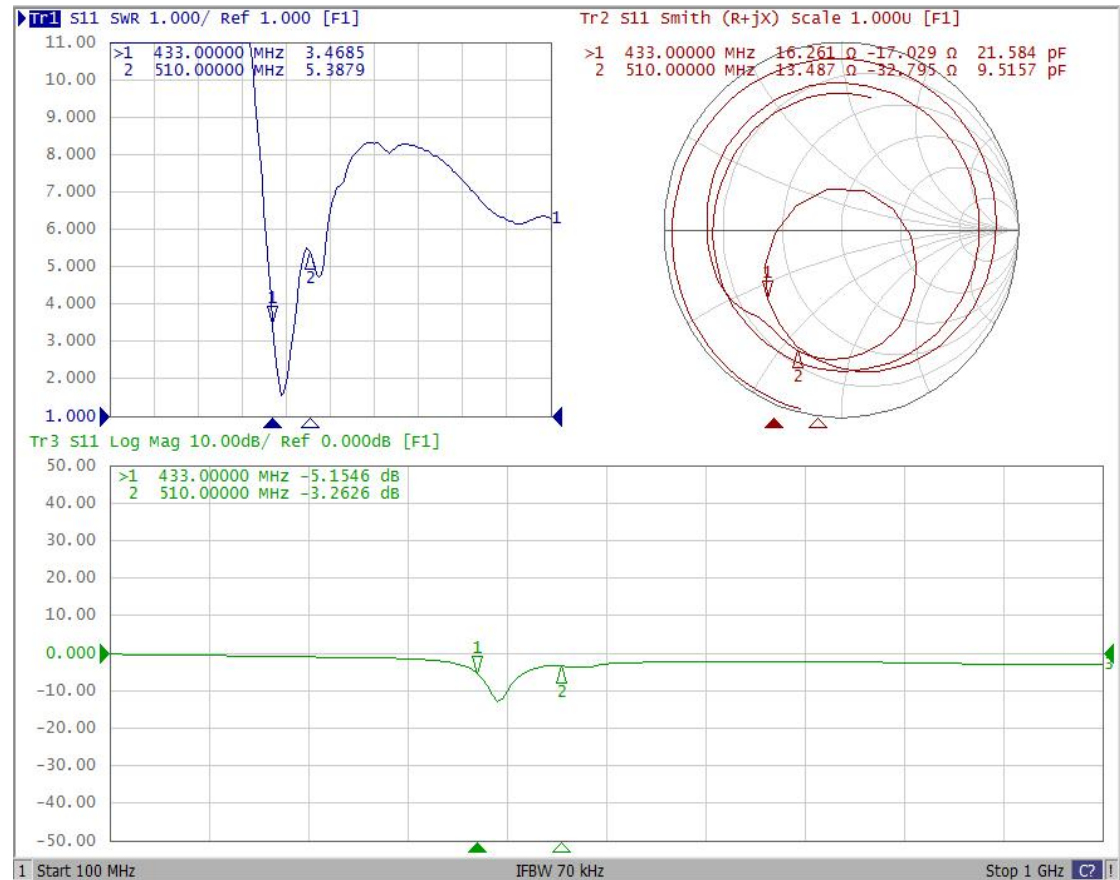
MyAntenna RF Technology Co., Ltd

ADD:No.RM 410, Country Garden Phoenix Wisdom Valley, No. 50 Tiezai Road, Baoan District, Shenzhen, P.R.China.

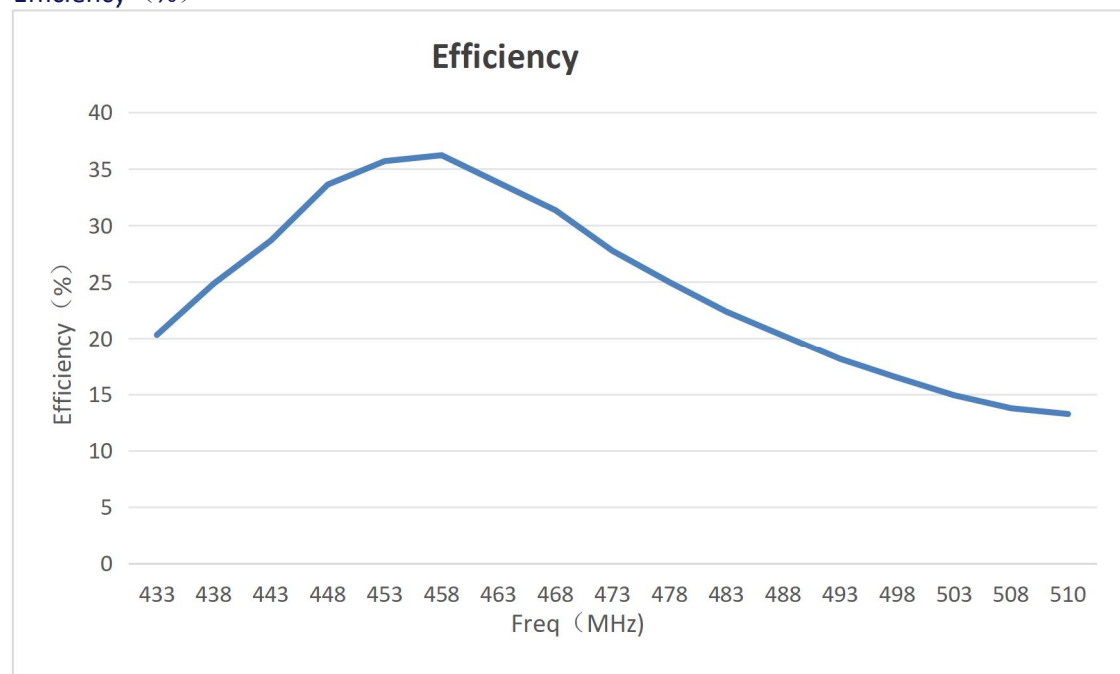
TEL: +86-0755-86503881 FAX: +86-0755-27801677 E-mail: [nfc@myantenna.com](mailto:nfc@myantenna.com)

## ELECTRICAL DATA

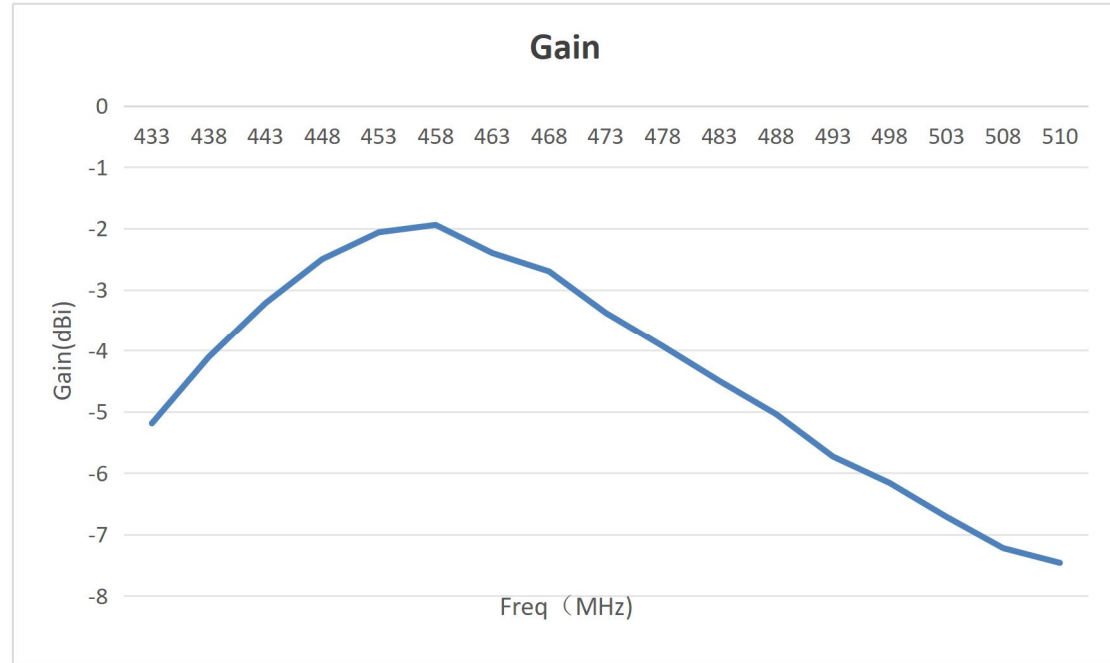
### Return Loss



### Efficiency (%)



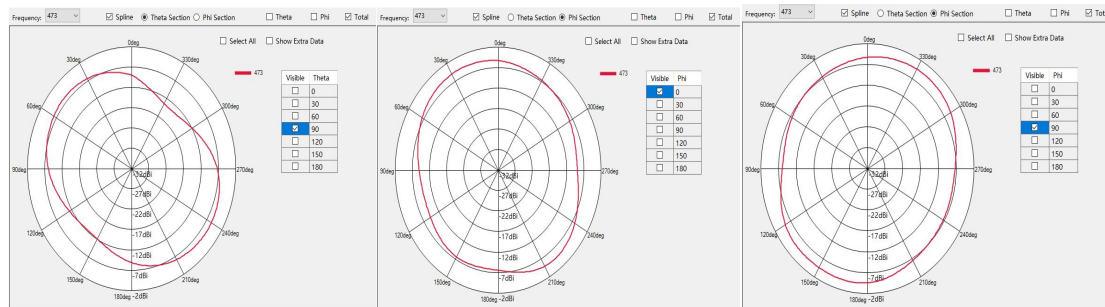
## Peak Gain (dBi)



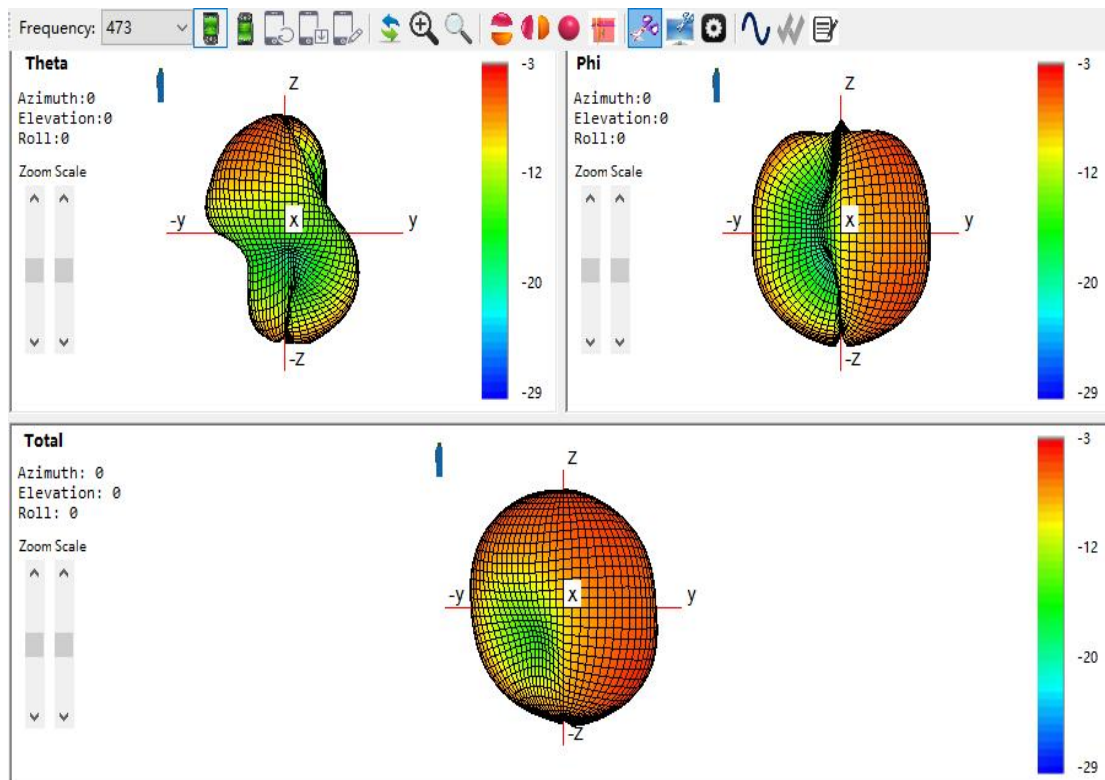
| Freq (MHz) | Gain(dBi) | Efficiency (%) |
|------------|-----------|----------------|
| 433        | -5.19     | 20.33          |
| 438        | -4.11     | 24.87          |
| 443        | -3.22     | 28.66          |
| 448        | -2.50     | 33.61          |
| 453        | -2.06     | 35.68          |
| 458        | -1.94     | 36.20          |
| 463        | -2.40     | 33.77          |
| 468        | -2.70     | 31.34          |
| 473        | -3.38     | 27.76          |
| 478        | -3.93     | 24.99          |
| 483        | -4.50     | 22.38          |
| 488        | -5.04     | 20.25          |
| 493        | -5.73     | 18.13          |
| 498        | -6.16     | 16.47          |
| 503        | -6.71     | 14.90          |
| 508        | -7.22     | 13.75          |
| 510        | -7.46     | 13.24          |

## RADIATION PATTERNS

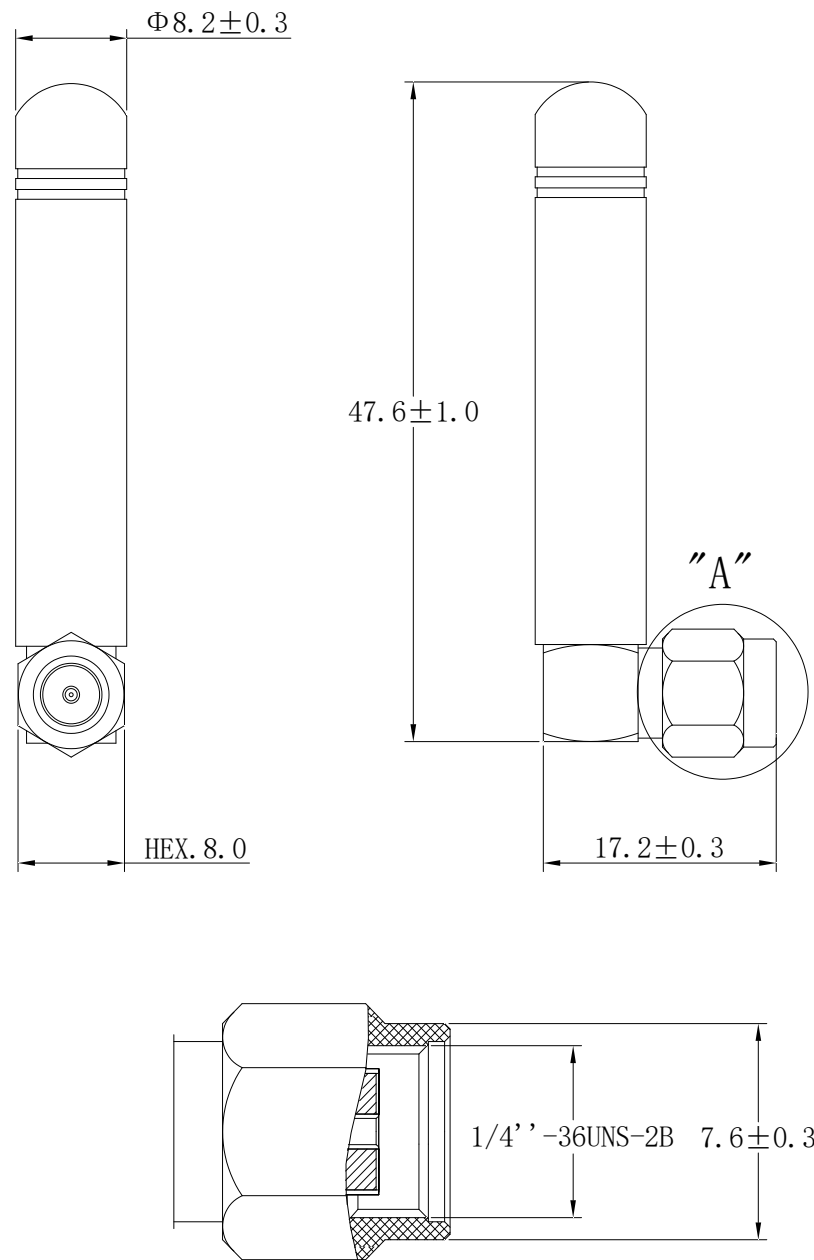
### 2D Radiation Pattern at 473MHz



### 3D Radiation Pattern at 473MHz



## HOUSING CONFIGURATIONS



DETAIL A  
SCALE 2:1