

**DI-915M09-NF**  
**902MHz – 928MHz 9dBi**  
**Linear Patch Antenna Specification**

**Dynamic Intelligences Co., Ltd.**

**2024.08.01**

**Model : DI-915M09-NF**

## OutLine :



## Accessory :



## Electronic

|                            |                 |
|----------------------------|-----------------|
| <b>Frequency Range</b>     | 902MHz - 928MHz |
| <b>V.S.W.R</b>             | 1.3 :1          |
| <b>Antenna Type</b>        | Patch Type      |
| <b>Radiate Directonial</b> | Directional     |
| <b>GainValue</b>           | 9 dBi           |
| <b>Polar Directional</b>   | Vertical        |
| <b>Power</b>               | 5 Watts         |
| <b>Vertical Angle</b>      | 49Deg           |
| <b>Horizontal Angle</b>    | 52Deg           |
| <b>Impedence</b>           | 50 Ohm          |
| <b>No. Antenna</b>         | One Patch       |
| <b>Material</b>            | FR4(Taiwan)     |
| <b>Connecter Type</b>      | N-Female        |

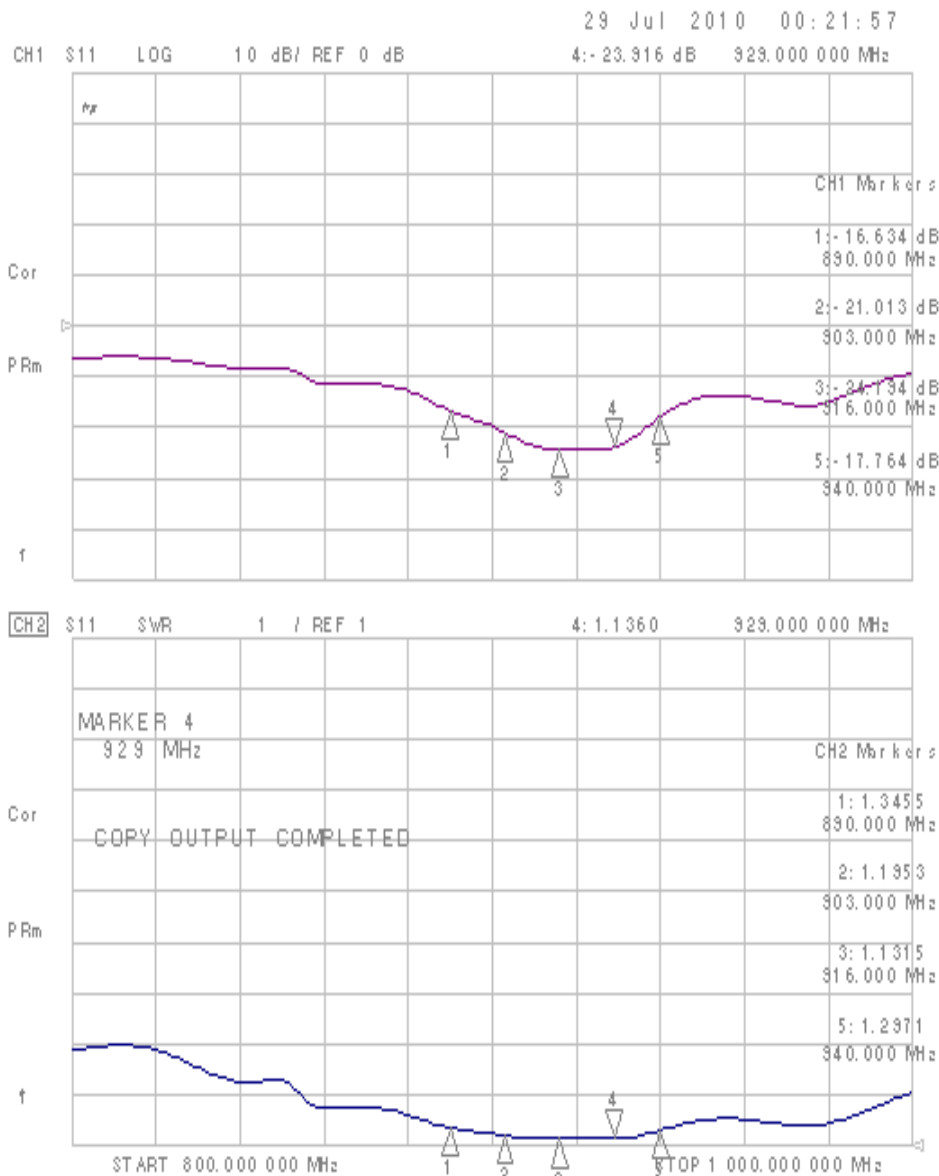
## 機械特性

|                           |                              |
|---------------------------|------------------------------|
| <b>Dimension</b>          | 230X230mm                    |
| <b>Height</b>             | 35mm                         |
| <b>Weighe</b>             | 1020 g                       |
| <b>Accessory weight</b>   | 250 g                        |
| <b>Application Area</b>   | 室內/室外                        |
| <b>Outline Material</b>   | White ABS                    |
| <b>Backplane Material</b> | Aluminum                     |
| <b>Fix method</b>         | Pole Mount                   |
| <b>Fix material</b>       | Stainless Steel and Aluminum |
| <b>Storage Temp.</b>      | -40 to +80                   |
| <b>Operation Temp.</b>    | -40 to +60                   |
| <b>Operation Humidity</b> | 10%~90% non-condensing       |
| <b>Storage Humidity</b>   | 5%~90% non-condensing        |

# Chamber Test Equipment

|                               |                                       |
|-------------------------------|---------------------------------------|
| Test Equipment                | Agilent 8720ET 50MHz-20.5GHz          |
| Test Cable                    | Agilent 60cm Sma male to Sma male     |
| Connection cala and connector | Agilent SMA-Female to N-Male DC~18GHz |
| Alignment                     | 85052D-DC-26.5Ghz                     |
| EUT                           | DI-915M09-NF                          |
| Test Model                    | S11                                   |

## Return Loss & V.S.W.R



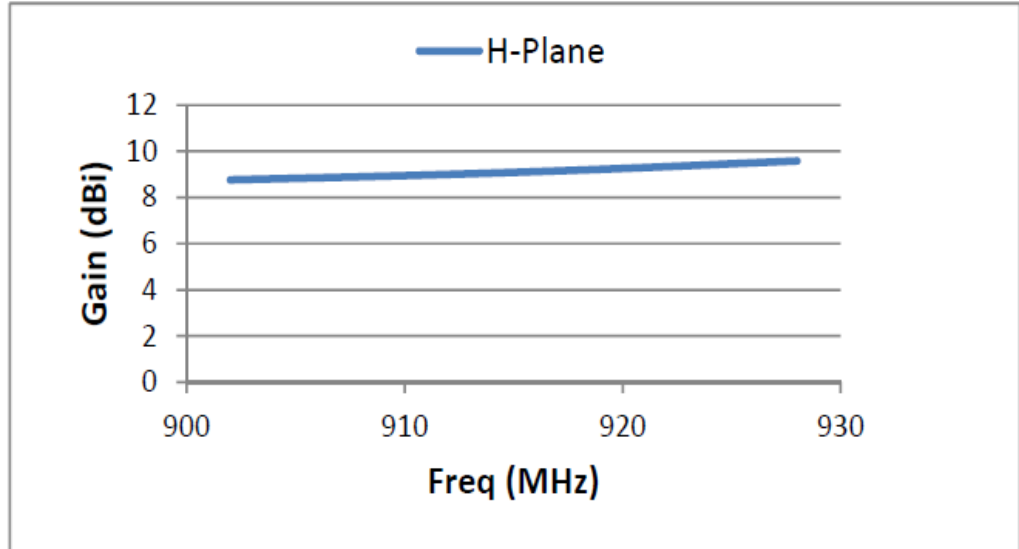


## Antenna Curve Gain

### H-plane

| MHz | dBi  |
|-----|------|
| 902 | 8.76 |
| 915 | 9.08 |
| 928 | 9.58 |

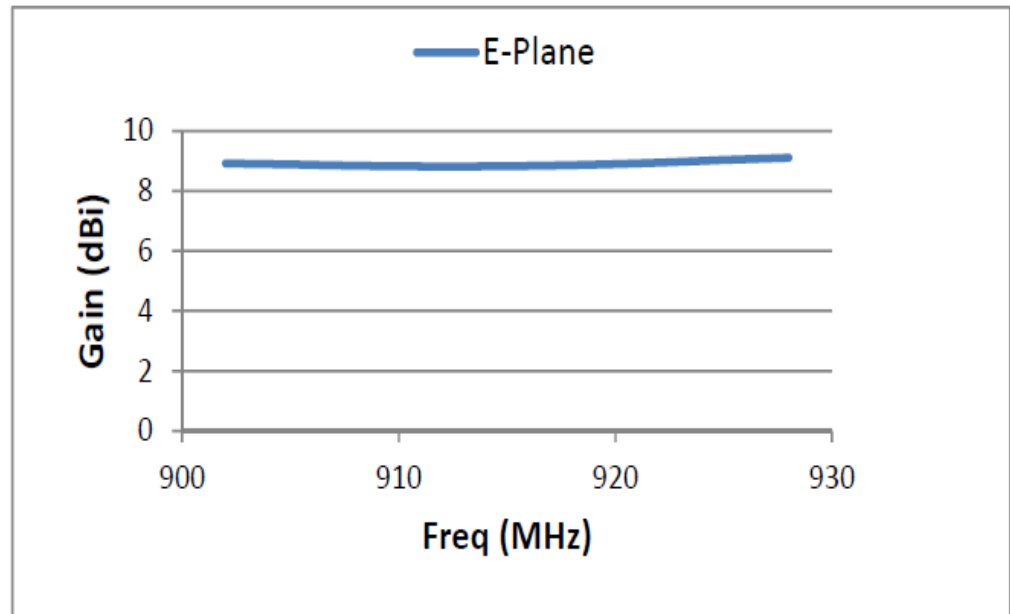
Average 9.14



### E-Plane

| MHz | dBi  |
|-----|------|
| 902 | 8.92 |
| 915 | 8.82 |
| 928 | 9.11 |

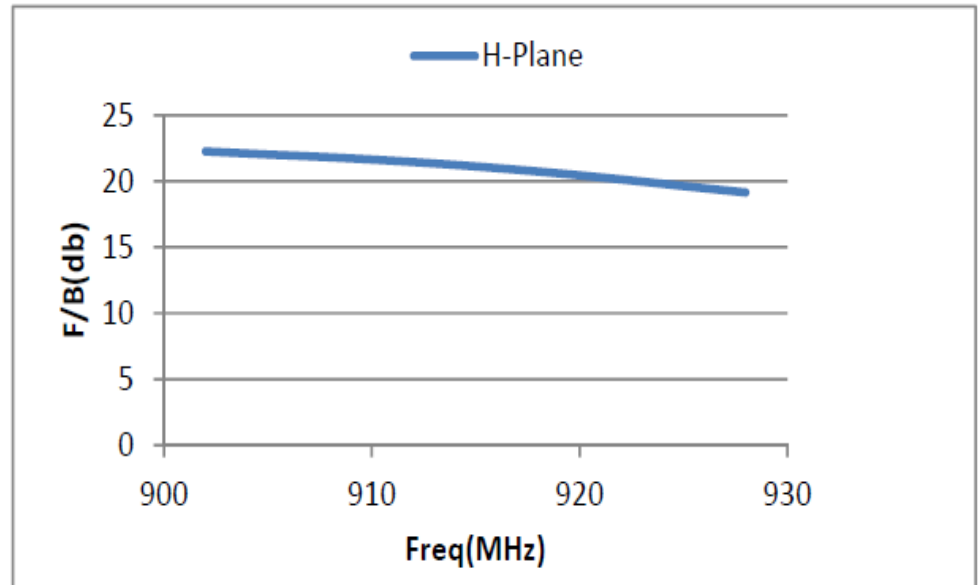
Average 8.95



## Magnetic Field / Electric Field Curve

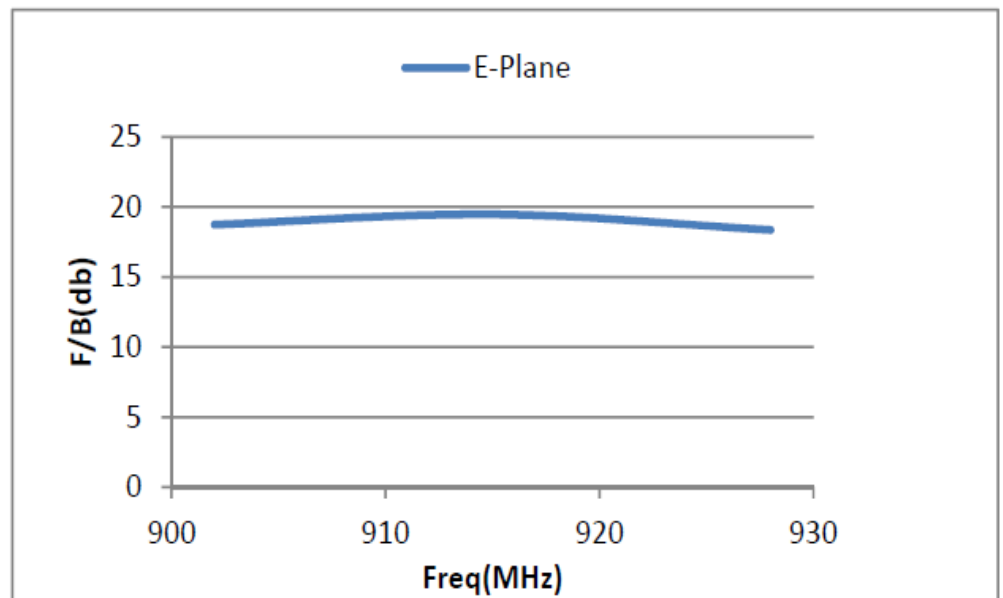
### H-PLANE

| MHz     | Db    |
|---------|-------|
| 902     | 22.26 |
| 915     | 21.13 |
| 928     | 19.15 |
| Average | 20.85 |



### E-PLANE

| MHz     | Db    |
|---------|-------|
| 902     | 18.74 |
| 915     | 19.48 |
| 928     | 18.36 |
| Average | 18.86 |

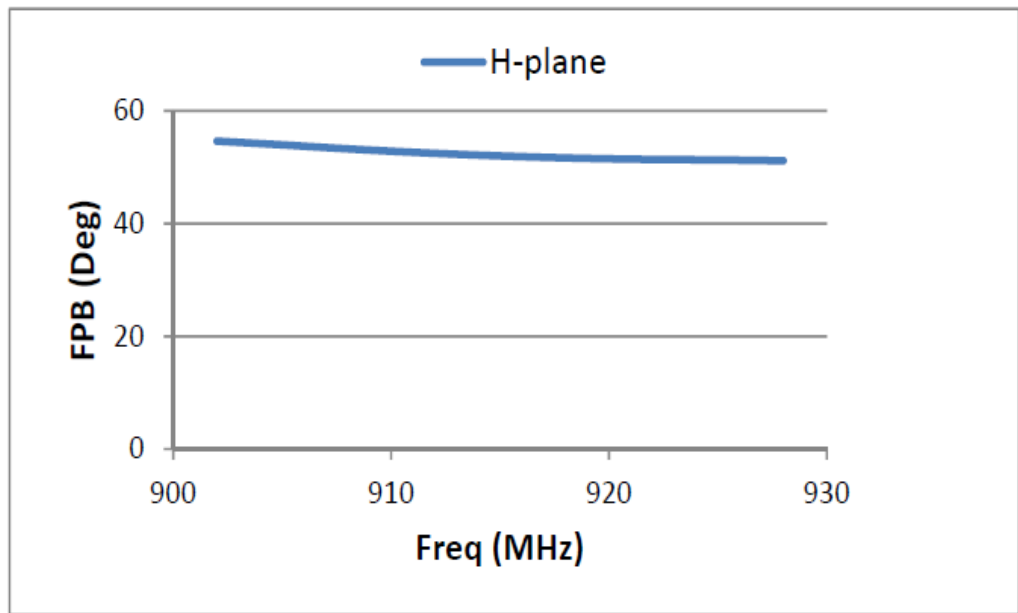


## Antenna -3dB Curve

### H-PLANE

| MHz | Deg   |
|-----|-------|
| 902 | 54.65 |
| 915 | 52    |
| 928 | 51.17 |

Average 52.61



### E-PLANE

| MHz | Deg   |
|-----|-------|
| 902 | 50.07 |
| 915 | 49.82 |
| 928 | 47.6  |

Average 49.16

