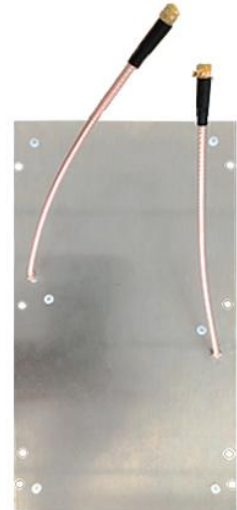


## 1. Feature

- 17dBi Dual Polarized Micro strip Antenna Array
- 5GHz of frequency
- MMCX connector
- Support 802.3 11AX/AC/AN
- RoHS compliance

## 2. Application

- 5GHz Wireless Communication
- WLAN device, WLAN Router, e.g., AP, PIC Wireless Card



## 3. Description

This antenna array is designed for 5GHz applications and can be easily built-in portable devices with MHF processes. It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

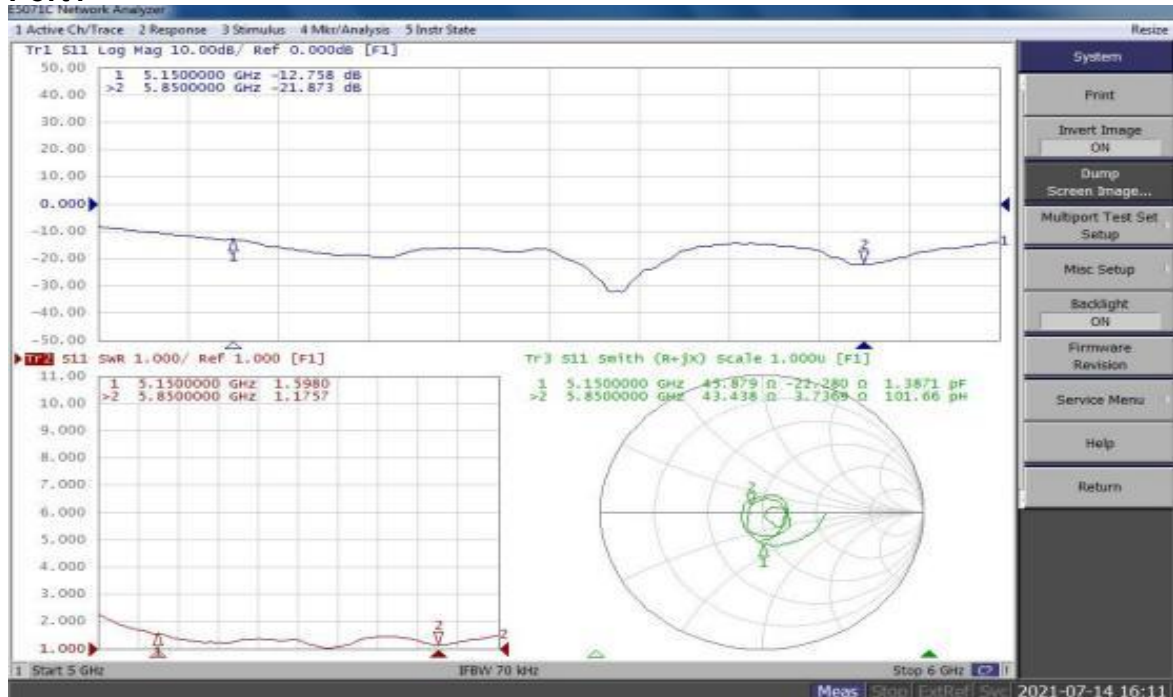
## 4. General Data

| Product Name          | Dual Polarized Micro strip Antenna Array |                       |
|-----------------------|--|-----------------------|
| Part No.              | DR5G17_A                                 | DR5G17_H              |
| Frequency             | 5.1GHz-5.9GHz                            | 5.1GHz-5.9GHz         |
| V.S.W.R               | <1.85                                    | <1.65                 |
| Gain (dBi)            | 17dBi                                    | 18dBi                 |
| Polarization          | Vertical & horizontal                    | Vertical & horizontal |
| Isolation             | >40db                                    | >40db                 |
| Storage Temp          | -20°C~70°C                               | -20°C~70°C            |
| Operating Temperature | -20°C~60°C                               | -20°C~60°C            |
| Antenna Type          | Antenna Array                            | Antenna Array         |
| Dimension             | 200*105mm                                | 200*105mm             |
| Weight                |  |                       |

## 5. Typical Electrical Characteristics

### VSWR & Smith chart

#### Port1



## Port2



## Gain (dBi) VS Efficiency

### Port1

| Frequency (MHz) | Directivity(dB) | Gain(dB) | Efficiency(%) | BW@theta=90 |
|-----------------|-----------------|----------|---------------|-------------|
| 5100            | 17.9845         | 16.0123  | 63.5007       | 31.5378     |
| 5200            | 18.1707         | 16.8235  | 73.3299       | 30.977      |
| 5300            | 18.4528         | 16.8863  | 69.7176       | 30.215      |
| 5400            | 18.7027         | 16.9825  | 67.2941       | 29.9416     |
| 5500            | 18.8755         | 17.2356  | 68.5504       | 29.2195     |
| 5600            | 19.1393         | 17.5803  | 69.8387       | 28.0142     |
| 5700            | 19.3238         | 17.2666  | 62.2693       | 27.3637     |
| 5800            | 19.3181         | 17.6268  | 67.7432       | 26.9148     |
| 5900            | 19.3839         | 17.8213  | 69.7826       | 26.0087     |

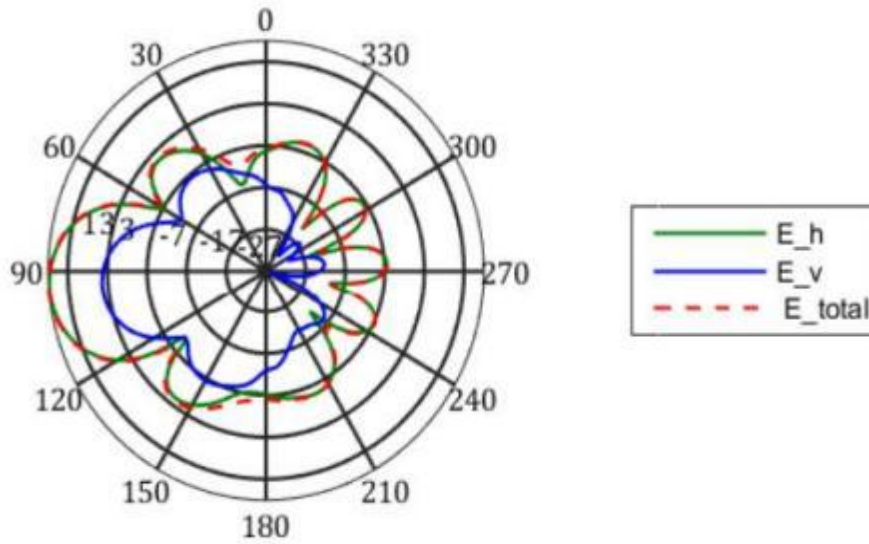
### Port2

| Frequency (MHz) | Directivity(dB) | Gain(dB) | Efficiency(%) | BW@theta=90 |
|-----------------|-----------------|----------|---------------|-------------|
| 5100            | 18.4277         | 16.897   | 70.2965       | 33.573      |
| 5200            | 18.5082         | 17.2539  | 74.9152       | 33.2432     |
| 5300            | 18.6996         | 17.1707  | 70.3246       | 32.4226     |
| 5400            | 18.8742         | 17.1829  | 67.7436       | 31.4879     |
| 5500            | 19.039          | 17.6565  | 72.7365       | 31.0652     |
| 5600            | 19.1671         | 17.8186  | 73.309        | 30.8182     |
| 5700            | 19.3046         | 17.7222  | 69.4634       | 29.9616     |
| 5800            | 19.2637         | 17.9505  | 73.906        | 29.5506     |
| 5900            | 19.1449         | 17.5794  | 69.735        | 29.2306     |

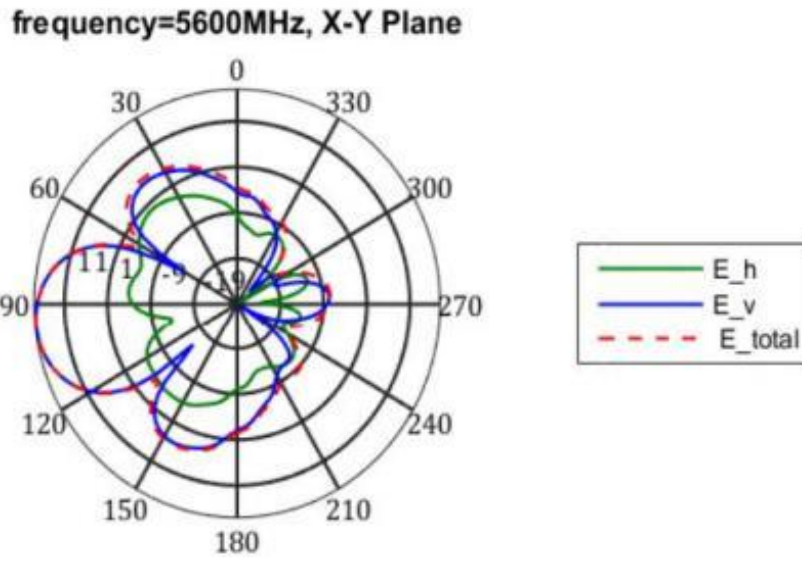
## 2D Polar Plots

Port1

frequency=5600MHz, X-Y Plane

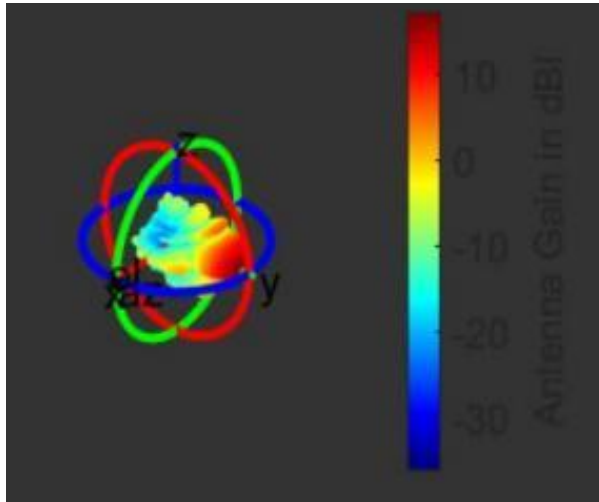


## Port2



## 3D Polar Plots

Port1



Port2

