

DR5G17 Specification

17dBi Dual Polarized Micro strip Antenna Array

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.

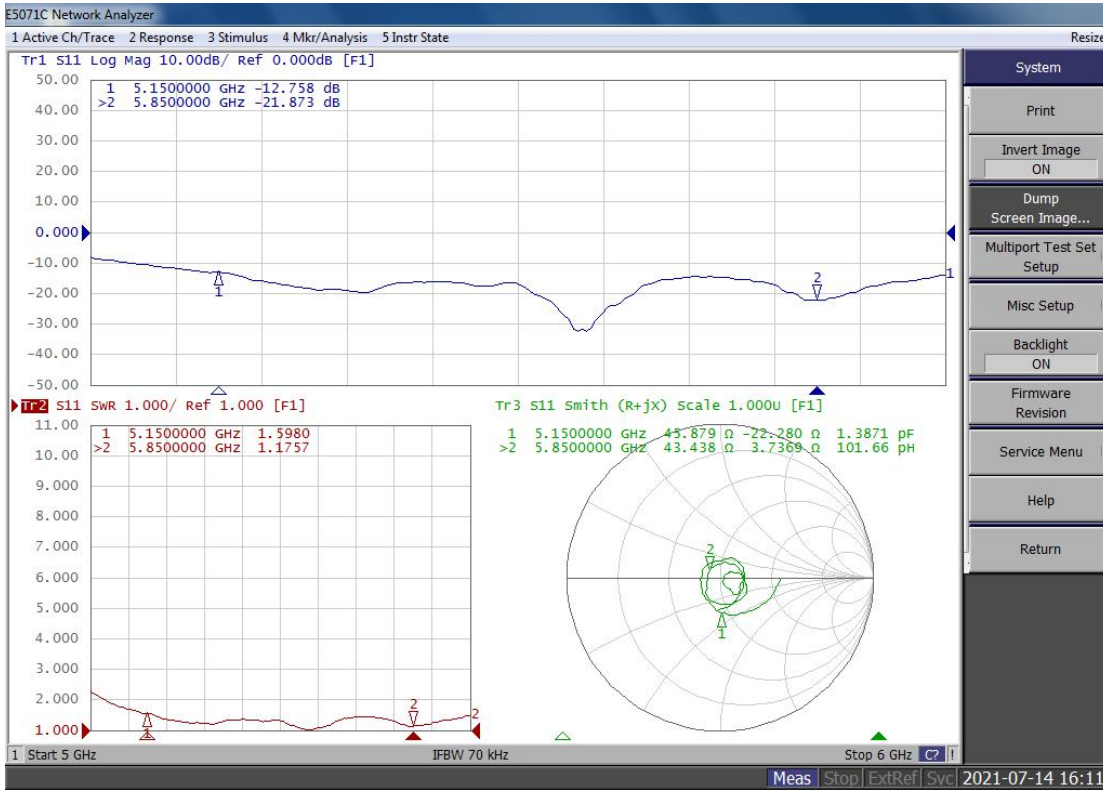
4. General Data

| | | |
|------------------------------|--|-----------------------|
| 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 | | |

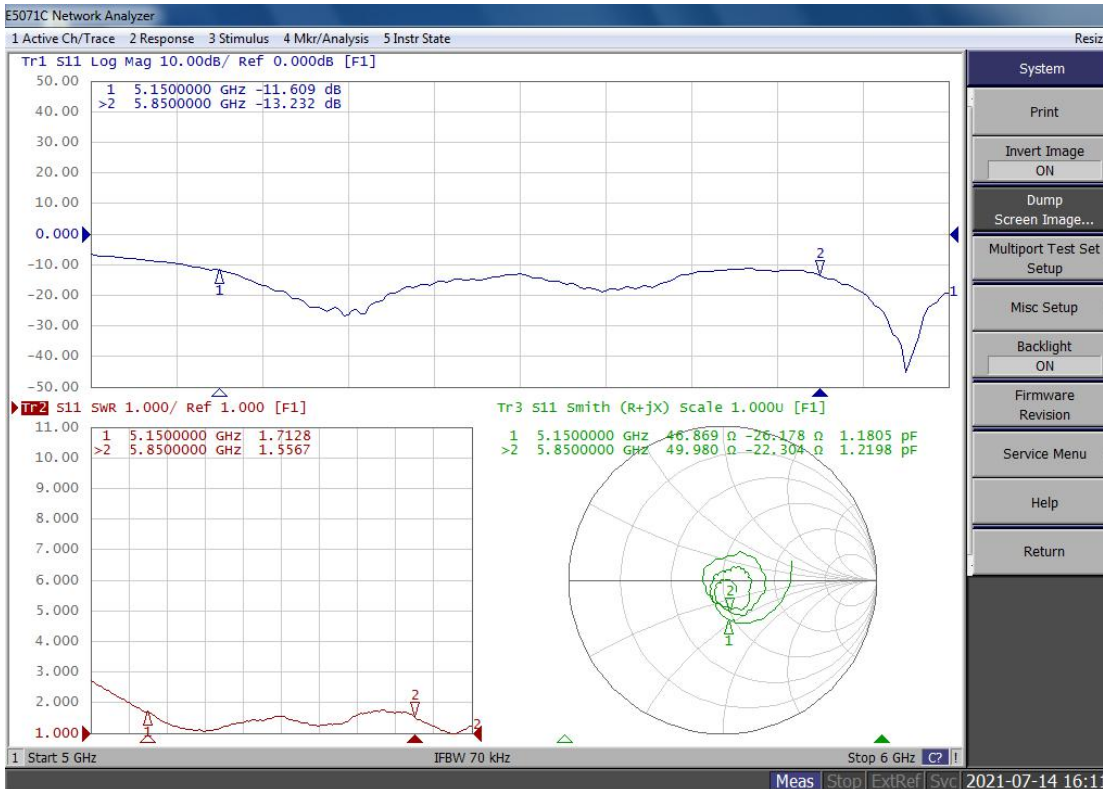
5. Typical Electrical Characteristics

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 |

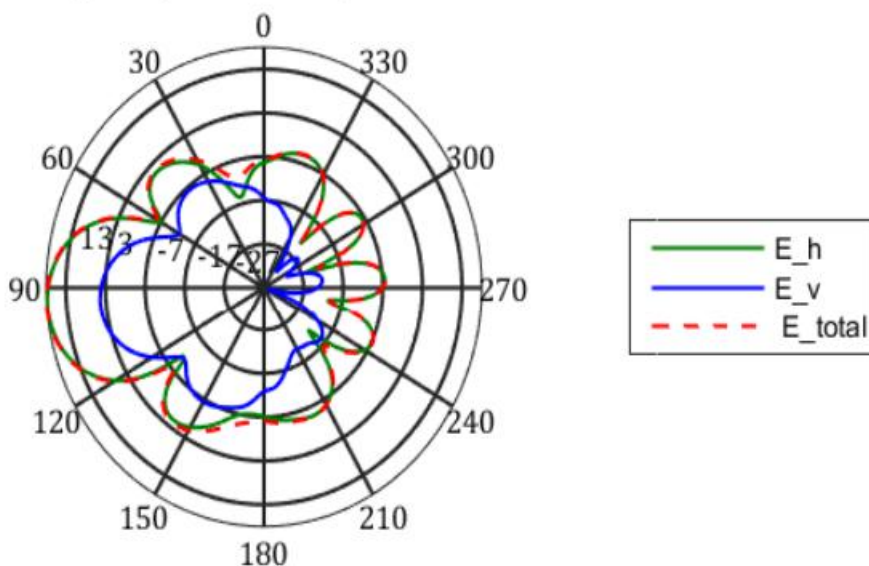
Port2

| 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

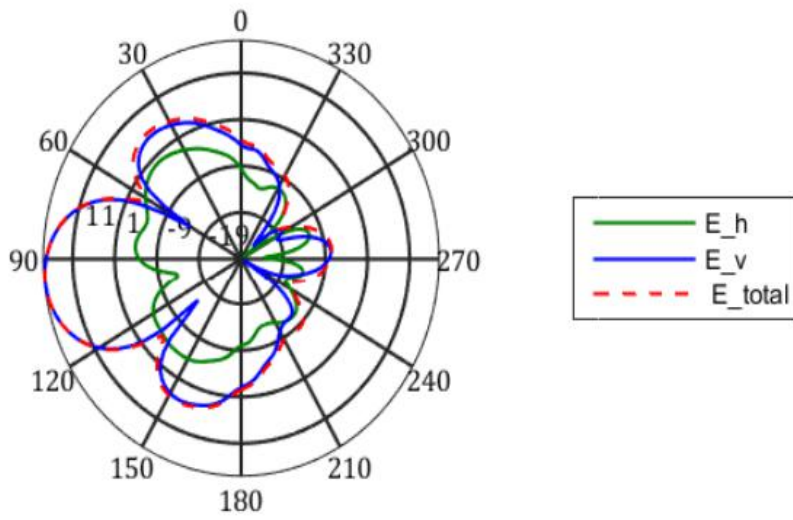
Port1

frequency=5600MHz, X-Y Plane



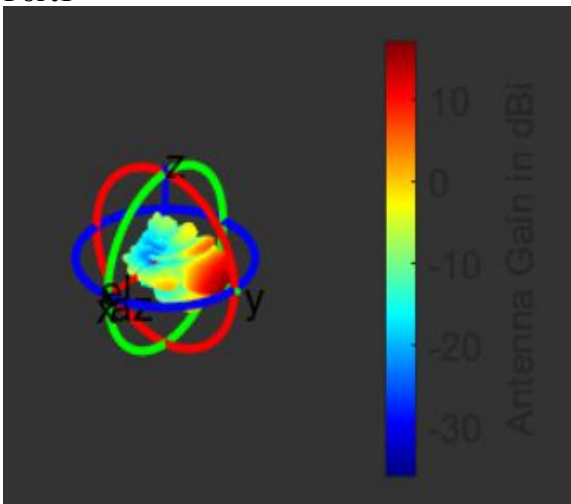
Port2

frequency=5600MHz, X-Y Plane



3D Polar Plots

Port1



Port2

