

Feature

- 5150~5850MHz of frequency
- N-Type Plug Male PIN
- Plastic rod of White
- ROHS compliance

Application

- 5150~5850MHz Wireless Communication
- WLAN device, WLAN Router, e.g., AP, PIC Wireless Card



Description

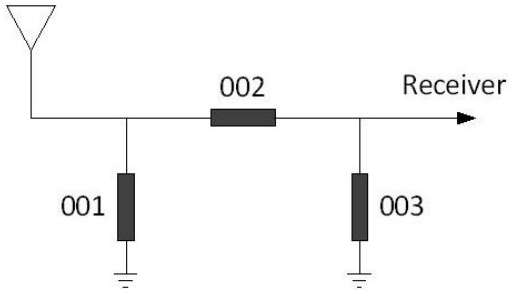
The antenna for 5150~5850MHz Antenna applications.
It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

General Data

| | |
|--------------------------------|--------------------------|
| Product Name | DRA5G9D-N |
| Part NO. | 5150~5850MHz FRP Antenna |
| Frequency | 5150~5850MHz |
| V.S.W.R | ≤3.0 |
| Peak Gain (dBi) | 9.0dBi |
| Polarization | Vertical |
| Storage Temp | -25℃~+75℃ |
| Operating Temperature | -20℃~+65℃ |
| Antenna Type | N-Type Plug Male PIN |
| Impedance with Matching | 50 Ω |
| Dimension | L500(mm) |

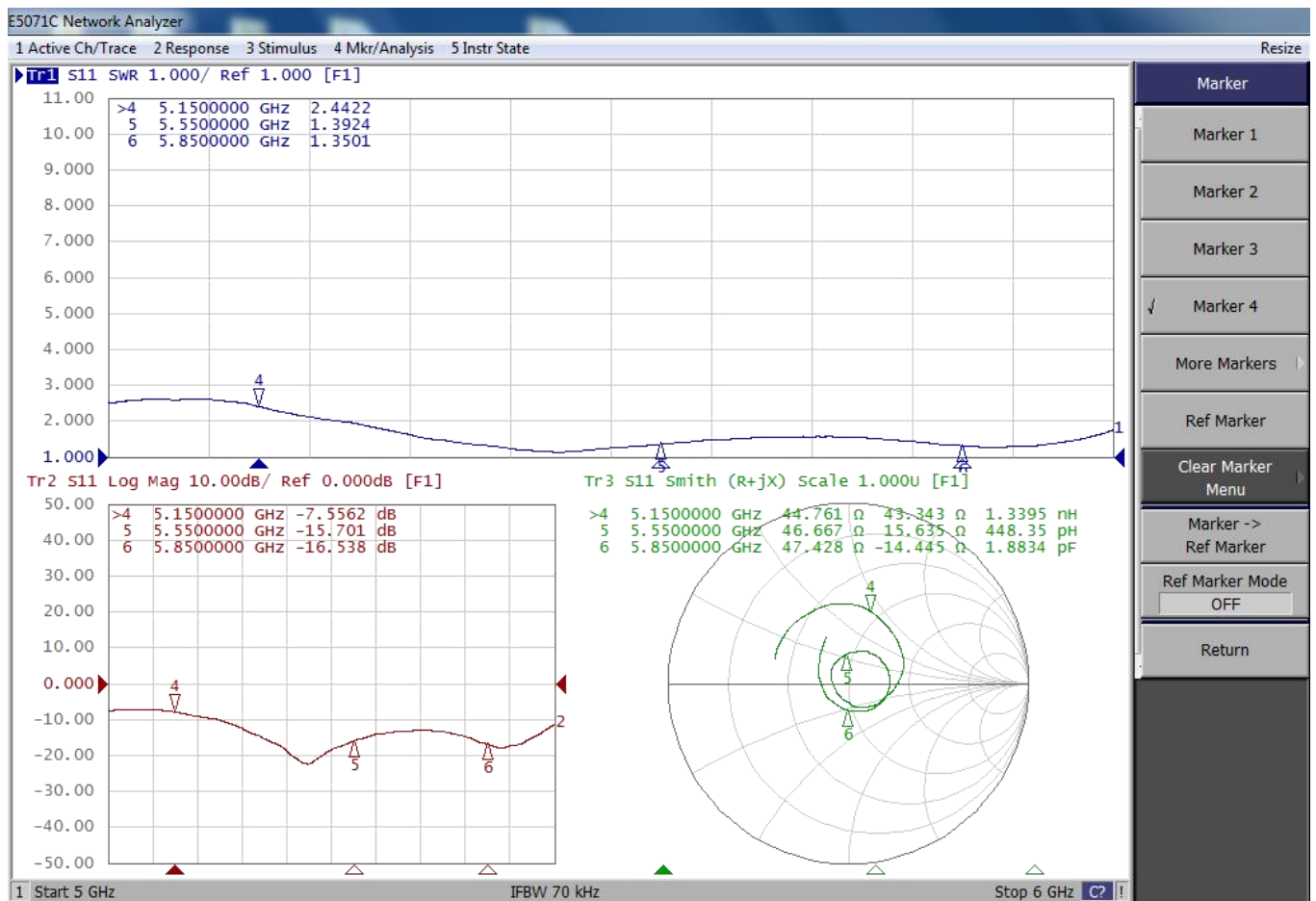
Typical Electrical Characteristics

- Recommend Matching Circuit



Reference:
001=(N/A) 002=0Ω
003=(N/A)

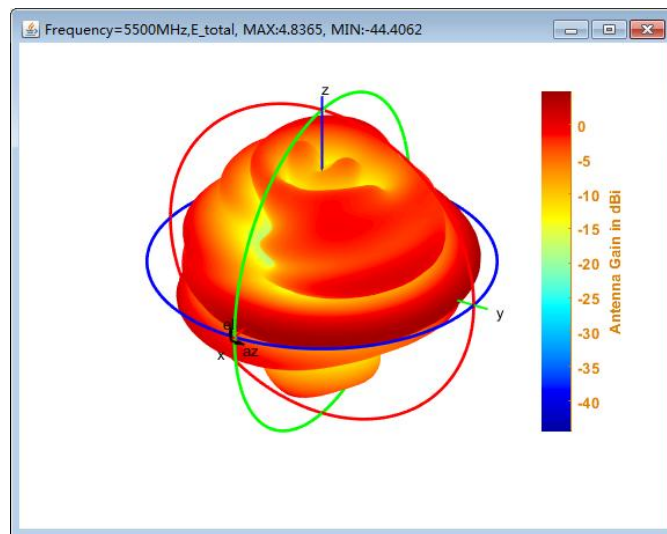
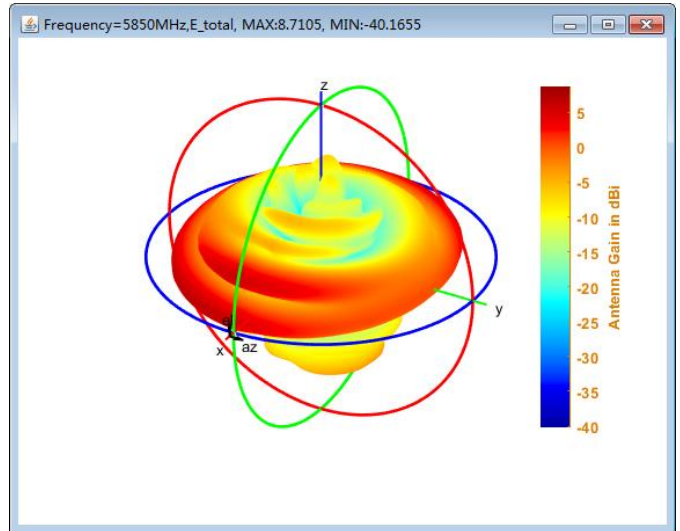
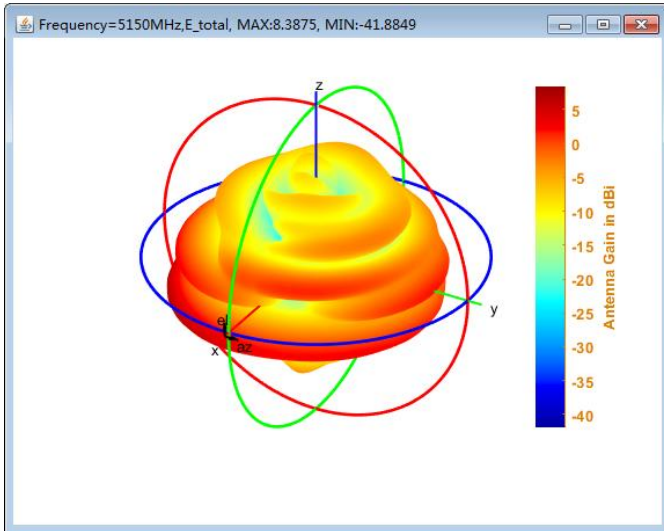
- Return loss、VSWR& Smith chart



Frequency Total Data

| Frequency (MHz) | Directivity(dB) | Gain(dB) | Efficiency(dB) | Efficiency(%) |
|-----------------|-----------------|----------|----------------|---------------|
| 5150 | 10.7602 | 8.3875 | -2.3727 | 57.9063 |
| 5200 | 10.164 | 7.7948 | -2.3692 | 57.954 |
| 5250 | 9.4217 | 7.2461 | -2.1757 | 60.5944 |
| 5300 | 9.137 | 7.1227 | -2.0143 | 62.8884 |
| 5350 | 9.5525 | 7.6943 | -1.8582 | 65.1892 |
| 5400 | 9.4485 | 7.4245 | -2.024 | 62.7484 |
| 5450 | 9.1265 | 7.2308 | -1.8957 | 64.6294 |
| 5500 | 7.3118 | 4.8365 | -2.4753 | 56.5543 |
| 5550 | 8.4462 | 5.556 | -2.8902 | 51.4019 |
| 5600 | 10.1754 | 7.6591 | -2.5162 | 56.0243 |
| 5650 | 10.6686 | 8.9185 | -1.7501 | 66.8327 |
| 5700 | 11.0967 | 9.1266 | -1.9701 | 63.5318 |
| 5750 | 11.2276 | 8.9217 | -2.3059 | 58.8048 |
| 5800 | 11.2133 | 9.1208 | -2.0925 | 61.7662 |
| 5850 | 10.8797 | 8.7105 | -2.1692 | 60.6853 |

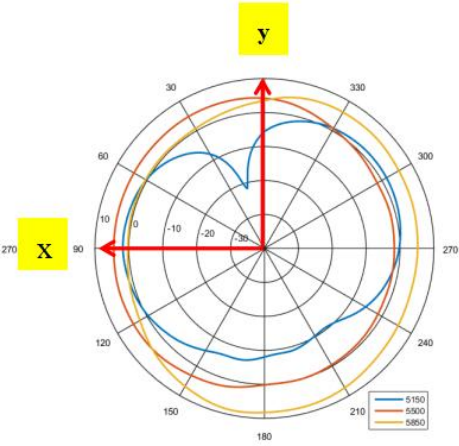
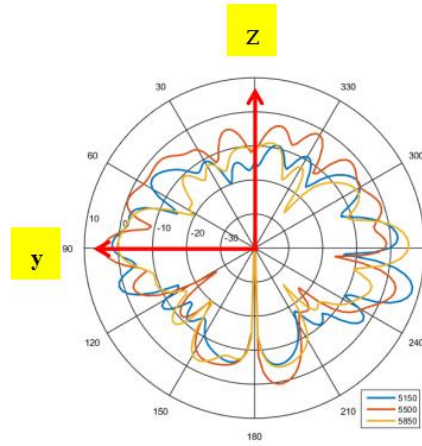
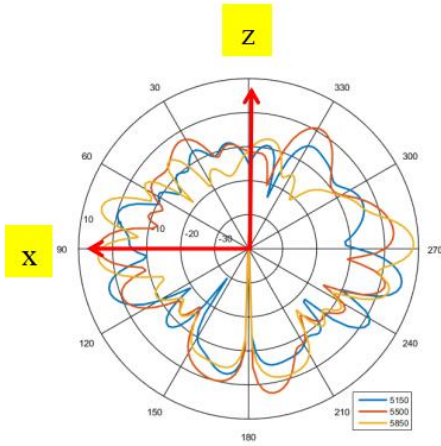
2D&3D test pattern



XZ Plane

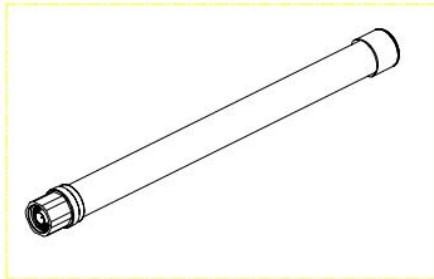
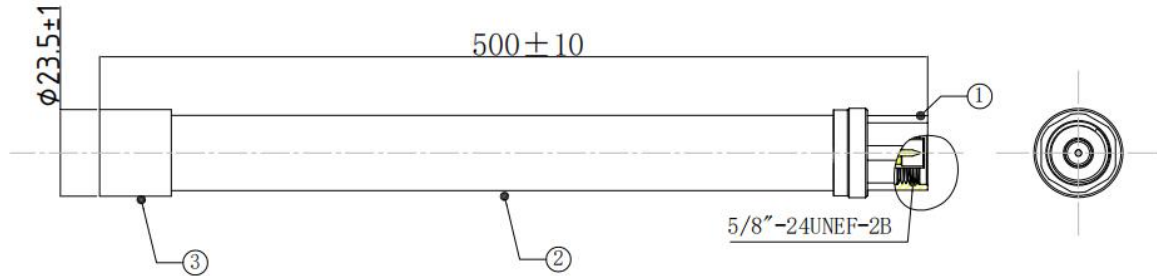
YZ Plane

XY Plane



Dimension

| REV | DATE | DESCRIPTION |
|-----|------------|-------------|
| A0 | 01/21/2025 | New Issue |



SPECIFICATION

1. Frequency Range: 5.15~5.85GHz
2. Impedance: 50 Ω
3. VSWR: ≤ 3.0
4. Polarization: Vertical
5. Radiation: Omni
6. Peak Gain: 9.0dBi

| | | | | |
|----|-----------|-------------------------------------|------|-----------|
| ③ | CAP | L19*φ23.5mm PVC White | 1PCS | |
| ② | CONN | L479*φ20mm White | 1PCS | |
| ① | CONNECTOR | N-Type Plug Reverse Ni Plated 1~3 μ | 1PCS | |
| NO | PARTNAME | DESCRIPTION | Q'TY | Part P/NO |