

|                                                                                                                                                                                                                                                                    |                                                                                                                                                                             |                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>ANT S.r.l.</b><br>Via della Concordia, 4 – 37036<br>S. Martino B/A (VR) - Italia<br>Tel. +39 045 8781380<br>Fax +39 045 8795335<br>e-mail: <a href="mailto:commerciale@antsrl.eu">commerciale@antsrl.eu</a><br><a href="http://www.antsrl.eu">www.antsrl.eu</a> | <b>DESCRIPTION</b><br><br><b>½ wave dipole antenna in range 2300-2500 MHz</b><br>Suitable for applications<br>WiFi, Wlan, LoRa, Zegbee, Bluetooth, ISM<br>4G/LTE-5G Band 40 |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

**Norte 2400MHz** (black, connection N-M)

P/N: F01-029

#### ELECTRICAL DATA

|                                            |                 |
|--------------------------------------------|-----------------|
| Frequency range<br>(with V.S.W.R. < 2 : 1) | 2300-2500 MHz   |
| Impedance:                                 | 50 Ω            |
| V.S.W.R.:                                  | < 1.5 : 1       |
| Maxd power:                                | 15 W            |
| Polarisation:                              | Linear          |
| Radiation:                                 | Omnidirectional |
| Gain:                                      | 2.1 dBi         |
| Beamwidth (-3dB E-Plane):                  | 77°             |
| Beamwidth (-3dB H-Plane):                  | 360°            |

#### MECHANICAL DATA

|                              |                                             |
|------------------------------|---------------------------------------------|
| Dimensions (about):          | Ø19x150 mm                                  |
| Connection:                  | N plug om request N plug RA)                |
| Cable:                       | On request                                  |
| Operating temperature range: | -30° / +80°C                                |
| Weight:                      | 0.065 kg                                    |
| Radome material:             | PVC tube in black colour (white on request) |
| Radiating element material:  | Copper                                      |
| Optional ccessories:         | Supports for mounting on wall or pole.      |



**Intended use:** Antenna for static applications on devices such as gateways, modems, control units etc.

Who may install/maintain it: Antenna to be installed/maintained only by experienced RF personnel.

**Protection against oxidation:** the antenna is designed to be able to withstand the worst climatic conditions and so that the oxidation of its parts is prevented: the plastic parts are made of raw materials resistant to external environmental agents.

**RoHS Directive :** The antenna complies with the RoHS Directive and its subsequent.

#### MOUNTING INSTRUCTIONS:

Please install the antenna on a N-socket connector.

#### WARNING:

The antenna does not require a ground plane however its performances may be influenced by grounds in its proximity.

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**DESCRIPTION**

**½ wave dipole antenna in range 2300-2500 MHz**  
Suitable for applications  
WiFi, Wlan, LoRa, Zegbee, Bluetooth, ISM  
4G/LTE-5G Band 40



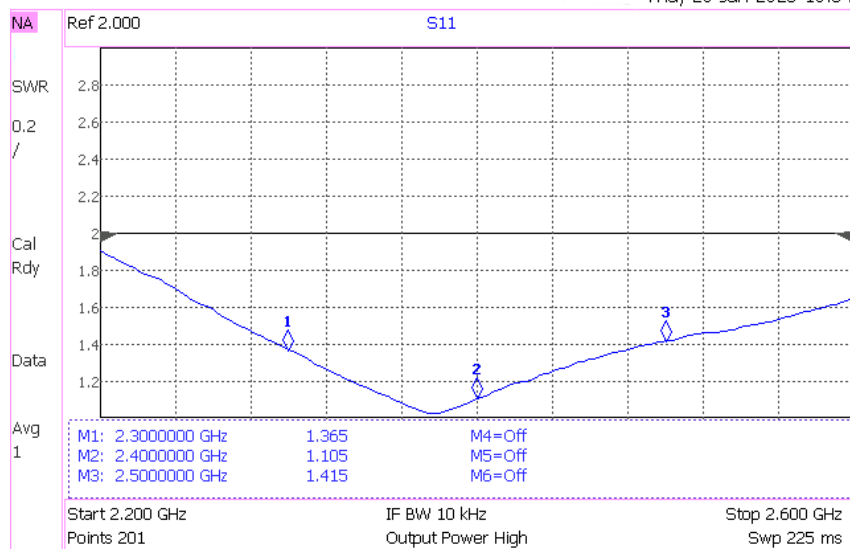
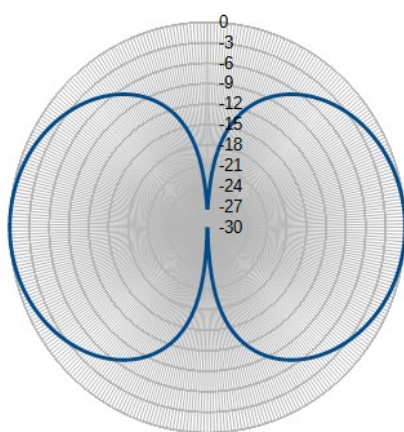
**Norte 2400MHz** (black, connection N-M)

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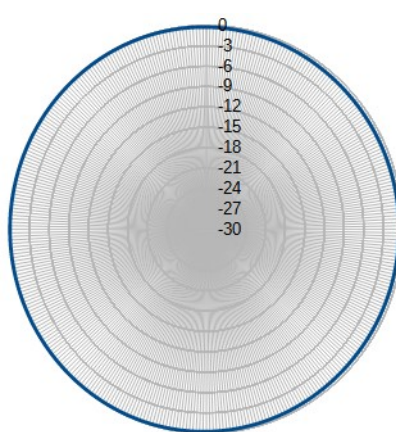
**V.S.W.R.**

Keysight Technologies

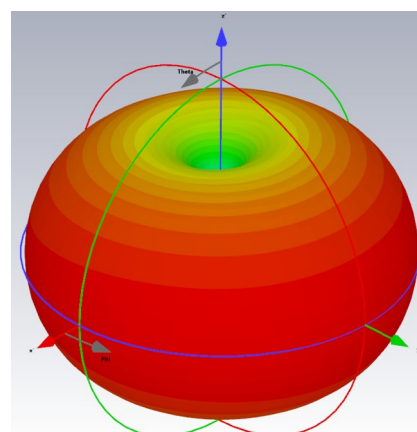
Thu, 26 Jan 2023 16:54

**Radiating patterns**

E-plane



H-plane



3D Simulation

**ITS NAME:**

**Norte:** the Norte is a strong winter wind blowing towards the north or north-east over the Mexican coast of the Gulf of Mexico. It often brings rain.

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**DESCRIPTION**

**2.4 – 5 GHz colinear antenna**  
suitable for applications  
WiFi, Wlan, LoRa, Zegbee, Bluetooth, ISM  
4G/LTE-5G Band 40



**Norte 2.4-5GHz** (black radome, packaging: loose)  
**Norte 2.4-5GHz** (black radome, packaging: single sack)  
**Norte 2.4-5GHz** (white radome, packaging: loose)  
**Norte 2.4-5GHz** (white radome, packaging: single sack )

P/N: F01-038-A

P/N: F01-038-C

P/N: F01-040-A

P/N: F01-040-C

**ELECTRICAL DATA**

|                           |                 |
|---------------------------|-----------------|
| Frequency range           |                 |
| (with V.S.W.R. < 2 : 1)   | 2.3-2.5 GHz;    |
| (with V.S.W.R. < 2.5 : 1) | 5.1-6.0 GHz     |
| Impedance:                | 50 Ω            |
| Max power:                | 15 W            |
| Polarisation:             | Linear          |
| Radiation:                | Omnidirectional |
| Gain (2.4 GHz):           | 5 dBi           |
| Gain (5.5 GHz):           | 6 dBi           |
| Beamwidth 2.4 GHz         |                 |
| (-3dB E-Plane):           | 42°             |
| Beamwidth 2.4 GHz         |                 |
| (-3dB H-Plane)            | 360°            |
| Beamwidth 5.5 GHz         |                 |
| (-3dB E-Plane):           | 22°             |
| Beamwidth 5.5 GHz         |                 |
| (-3dB H-Plane)            | 360°            |

**MECHANICAL DATA**

|                              |                                        |
|------------------------------|----------------------------------------|
| Dimensions (approx):         | Ø19x360 mm                             |
| Connection:                  | N plug (RA N plug on request)          |
| Cable:                       | on request                             |
| Operating temperature range: | -30° / +80°C                           |
| Weight (approx):             | 0.065 kg                               |
| Radome material:             | black PVC tube (white on request)      |
| Radiating element material:  | copper                                 |
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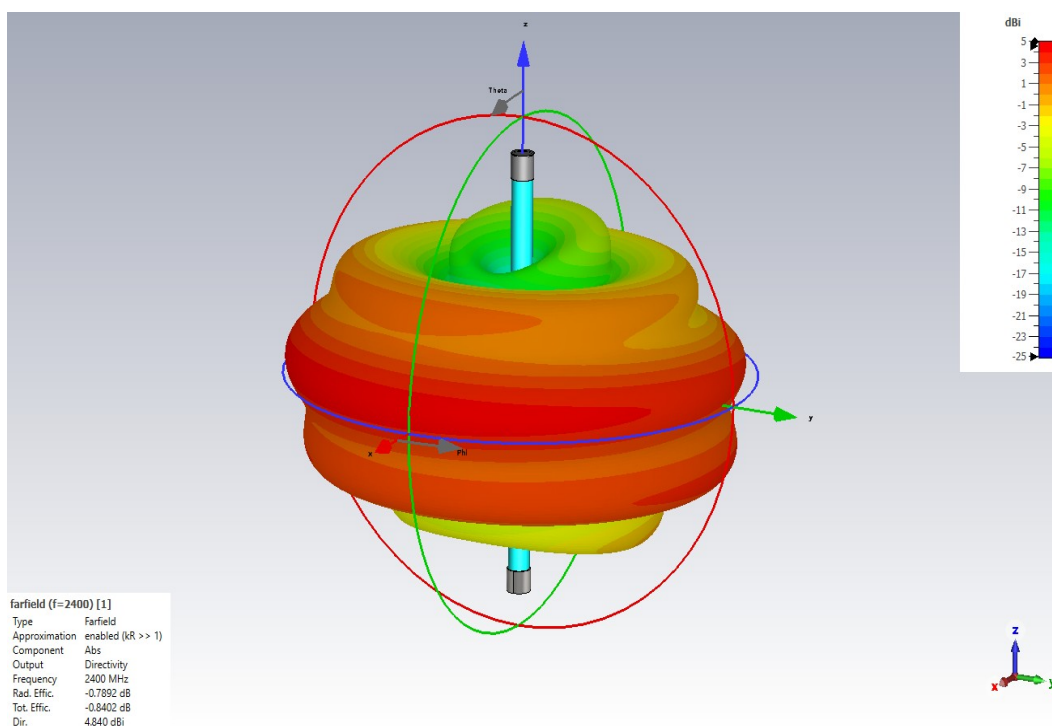
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P/N: F01-038-A

P/N: F01-038-C

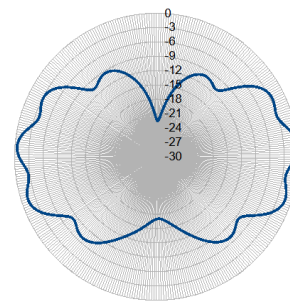
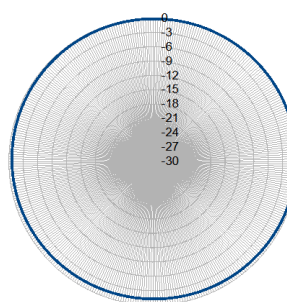
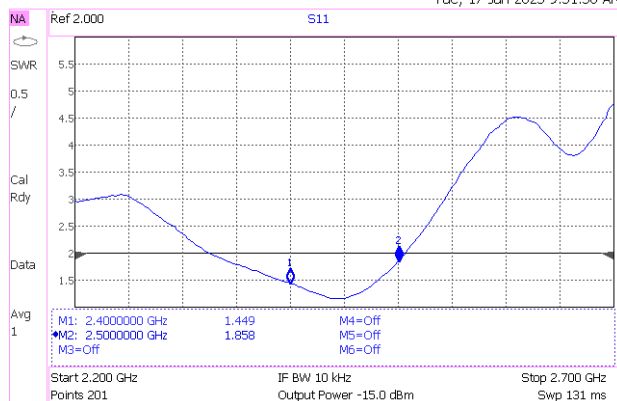
P/N: F01-040-A

P/N: F01-040-C

**Radiating pattern (Band 2.4 GHz)****VSWR****H-Plane****E-Plane**

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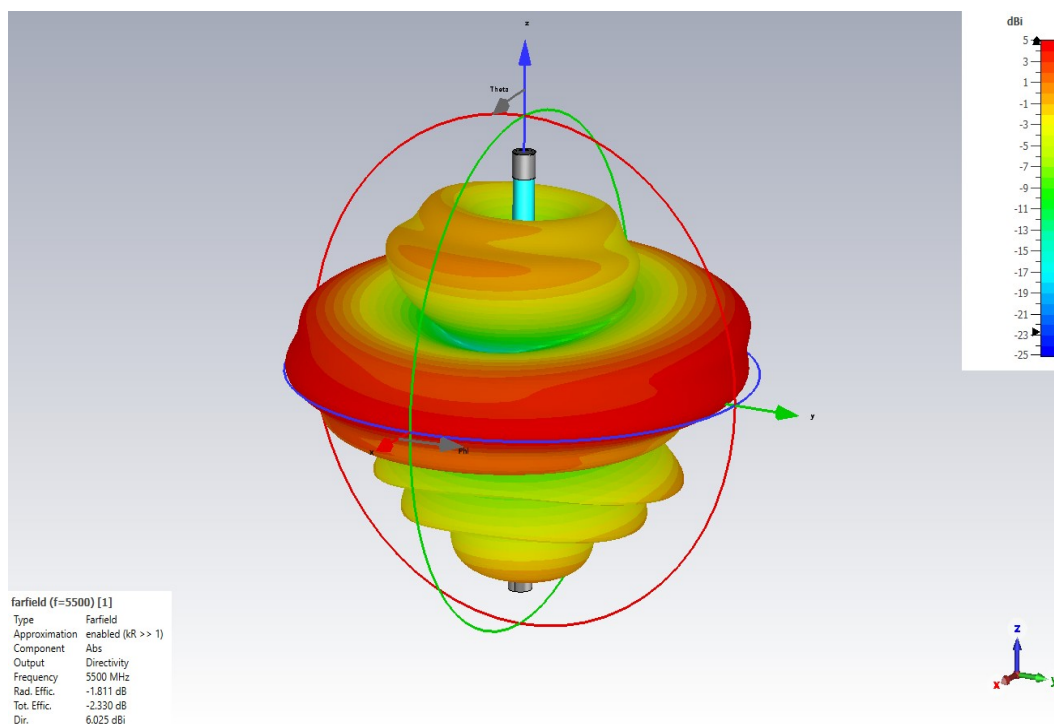
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P/N: F01-038-A

P/N: F01-038-C

P/N: F01-040-A

P/N: F01-040-C

**Radiating pattern (Band 5.5 GHz)**

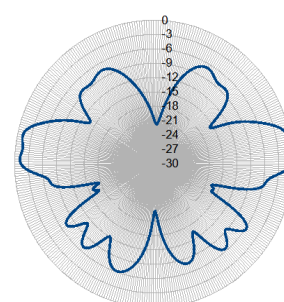
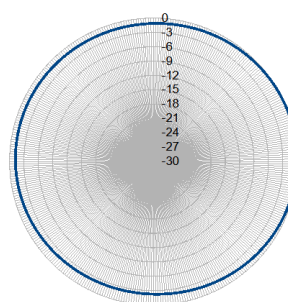
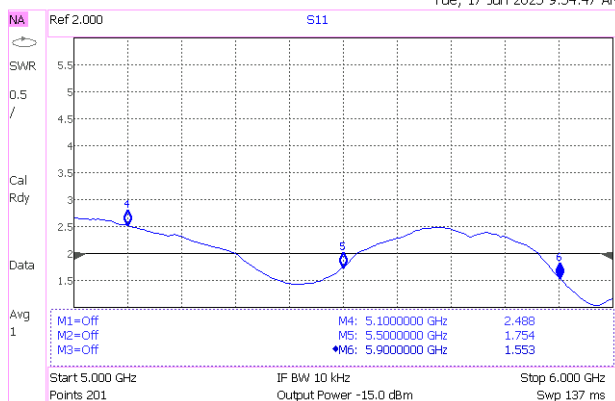
VSWR

H-Plane

E-Plane

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Tue, 17 Jun 2025 9:54:47 AM

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ENG-Rev. 0