

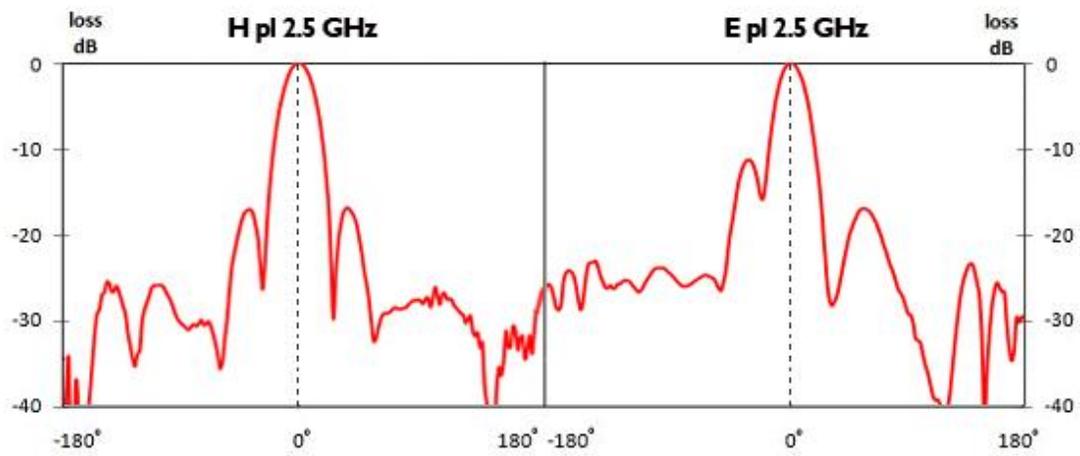
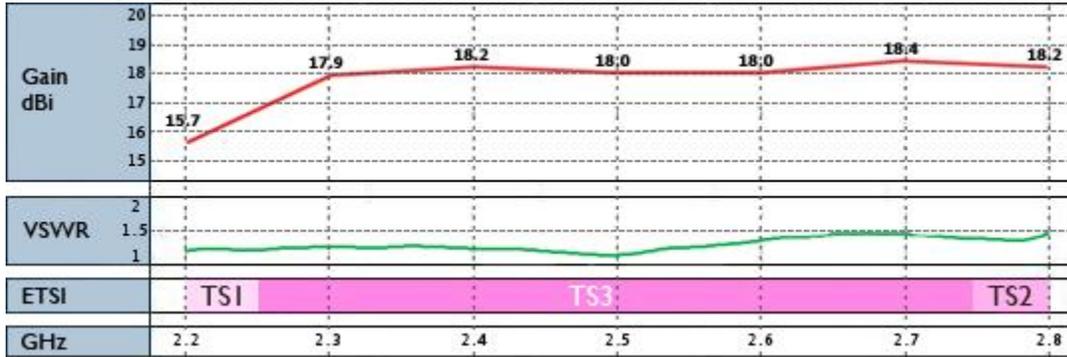
## **Panel Antenna FR-A-2101**

This antenna works in all wireless technologies in which offered specifications are required.



### **FR-A-2101 Antenna Specifications (Panel 2.5 GHz):**

| <b><u>Electrical</u></b>          |  |
|-----------------------------------|--|
| Frequency Range                   | 2.2 - 2.8 GHz                            |
| Gain                              | 18 dBi                                   |
| VSWR, max.                        | 1.5                                      |
| Polarization                      | Linear (Ver ; Hor)                       |
| 3 dB Beamwidth, H-Plane, typ.     | 20°                                      |
| 3 dB Beamwidth, E-Plane, typ.     | 19°                                      |
| Side Lobes, max.                  | -12 dB                                   |
| Cross Polarization, max.          | -25 dB                                   |
| Front to Back Ratio, max.         | -28 dB                                   |
| Lightning Protection              | DC Grounded                              |
| Input Power, max.                 | 35 Watt                                  |
| Input Impedance                   | 50 Ohm                                   |
| Connector                         | N-Type, Female                           |
| <b><u>Standard Compliance</u></b> |  |
| ETSI EN 301 525 V1.1.1            | TS1 – TS3                                |
| <b><u>Mechanical</u></b>          |  |
| Dimensions (HxWxD)                | 304.8 x 304.8 x 16.0 mm ( 12"x12"x0.63") |
| Weight                            | 1.0 kg (2.2 lb)                          |
| Reflector                         | Aluminum, Iridite Coating                |
| Radome                            | UV Stabilized Polycarbonate              |
| Mount                             | See Ordering Options                     |
| RoHS 2002/95/EC                   | Yes                                      |
| <b><u>Environmental</u></b>       |  |
| Temperature Range                 | -40° C to +80° C (-40° F to +176° F)     |
| Wind Speed (survival)             | 200 km/h (~125 mph)                      |
| Vibration and Mechanical Shock    | 4M3 per IEC 60721                        |
| Waterproofing                     | IP67 per IEC 60529                       |
| Flammability                      | UL 94V-2                                 |
| Solar Radiation (32° North)       | 2 years of Natural Tests                 |
| Humidity                          | 95% per ETSI EN 300                      |
| Sea Fog                           | 2 years of Natural Tests                 |
| Ice and Snow (survival)           | 25 mm (1") Radial                        |
| Service Life                      | > 10 years                               |
| <b><u>Marketing P.N.</u></b>      |  |
| Antenna Model FR-A-2101           | FR08010001                               |
| Integrated Ant. Enclosure Version |  |



FRACTOM offers [Mounts](#) for this antenna.