

# assured communications°

# RF-7800W-AT002

RAPIDLY DEPLOYABLE
TWO-FOOT PANEL ANTENNA

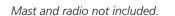
The RF-7800W-AT002 is a transportable two-foot panel antenna suited for rapid deployment and ease of use. The mounting studs allow for the bracket to mount the RF-7800W radio perpendicular to the antenna, reducing the antenna and radio profile (reducing wind loading) and minimizing the RF cable length. The antenna covers the frequency range 4.4 to 5 GHz (NATO Band IV) which includes the public safety band.

The RF-7800W-AT002 is uniquely designed to get the most gain for its size and weight and can handle harsh environments, making it ideal for nomadic and fixed-ground stations.

The RF-7800W-AT002 can easily be mounted for horizontal or vertical polarization. This capability allows for collocation of multiple radios while minimizing interference.

The RF-7800W-AT002 is supplied with a compression clamp assembly that can be used with most tubular masts. Installation takes only a few minutes using standard hand tools. The clamp assembly allows for elevation adjustment.

With its exceptional gain, the RF-7800W-AT002 is the right antenna choice for medium to long ranges point-to-point line-of-sight radio links.





# Specifications for the RF-7800W-AT002

## **Electrical**

Frequency Range 4.4 to 5.0 GHz
Gain 26 dB (nominal)
Impedance 50 ohm (nominal)

Polarization Linear (Vertical or Horizontal)

VSWR 1.5:

Radiation Pattern Azimuth: 6° beam

Elevation: 6° beam

Front to Back > 40 dB

#### **Environmental**

Temperature -40°C to +60°C

Relative Humidity 90% non-condensing at 50°C

Wind 137 MPH (220 KPH)

## Mechanical

Dimensions 24"L x 24"H x 2"D

Antenna Mount Bracket mount

Antenna Weight 11 lbs. (5 kg)

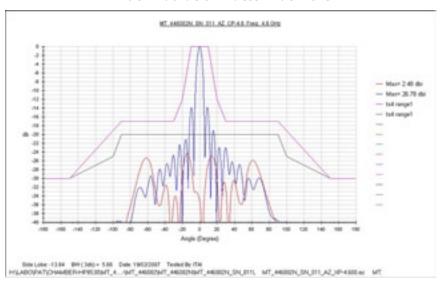
Color FED-STD-595B Green

RF Connector Type N Female

## **Features**

- · Lightweight
- · High gain
- · Rotate 90° for horizontal polarization
- · Easy to deploy

## **Azimuth Radiation Pattern at 4.6 GHz**



## **Elevation Radiation Pattern at 4.6 GHz**

