

RF-3191-AT001
RAPIDLY DEPLOYABLE
VHF ANTENNA



The RF-3191-AT001 is a transportable omnidirectional antenna specifically designed for quick deployment and ease of operation. A unique tripod leg structure allows the antenna to be mounted directly over the ground or mounted on a standard communications mast. The antenna covers 30 to 90 MHz frequency band with optimized passive tuning.

The RF-3191 enables rapid deployment (less than a minute) due to its sophisticated tripod design and can be disassembled and stowed just as quickly. The RF-3191 consists of the main antenna body, thin extender element, three legs, coaxial cable, adapters, and carry bag. The tripod legs collapse and can be either removed or rotated parallel to the lower radiating section. The entire assembly stows in a volume of less than 36" long by 10" diameter and contained within a carry bag.

When increased range is required, the RF-3191 can attach to a mast via a 3/4"-10 threaded hole in the antenna body. This is the typical mast mount found on many masts such as the OE-254 mast. Additionally, an optional adapter can be provided for clamp mounting to a mast with a 1.5" diameter top section. For fixed installations, the telescoping legs can be replaced with metallic ground radials that connect directly to the guy wires.



Electrical

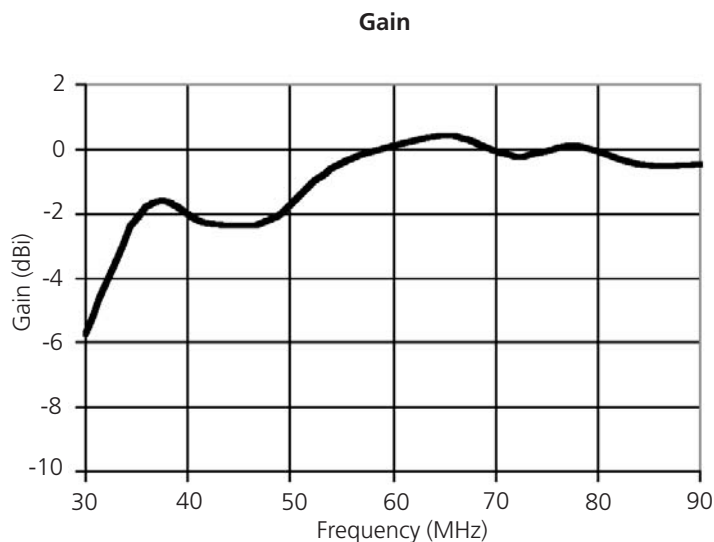
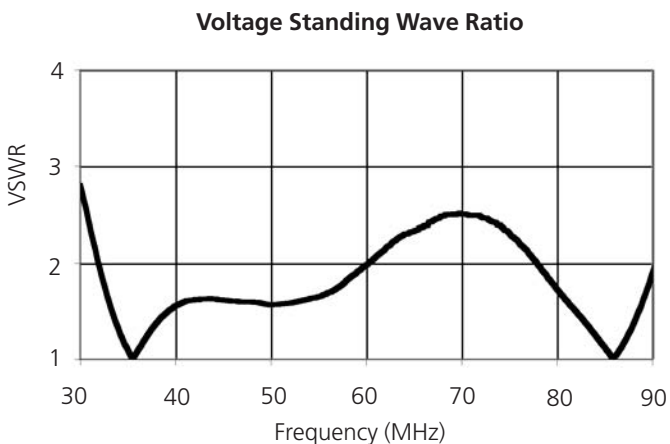
- **Frequency Range**
30 to 90 MHz, usable up to 108 MHz
- **Gain**
See Below
- **VSWR**
3.0:1 (see below)
- **Input Impedance**
50 Ohms (nominal)
- **RF Power**
200 W Average
- **Polarization**
Vertical
- **Radiation Pattern**
Omnidirectional

Environmental

- **Temperature**
Operating; -40° to 65°C
- **Vibration**
Designed to meet Mil-Std-810
- **Wind**
100 mph (160kph) when guyed

Mechanical

- **Element Height**
68 Inches (1.7m)
- **Element Diameter**
Antenna Body 3.0 Inches (0.076m)
Extender Element 1.5 Inches (0.038m)
- **Deployed Height**
105 Inches (2.7m)
- **Stowed Size**
36" x 10" Dia. (0.91 x 0.25m)
- **Weight**
10 lbs (4.54 kg))
- **RF Connector**
Type N Female
- **Adaptors Included**
N Male - BNC Female
N Male - UHF Female
- **Mast Mounting Interface**
3/4 in x 10 tpi
- **Installation Time**
1 min, 1 person
- **Finish**
Epoxy CARC 383 Green, Anodized tripod



Specifications are subject to change without notice.