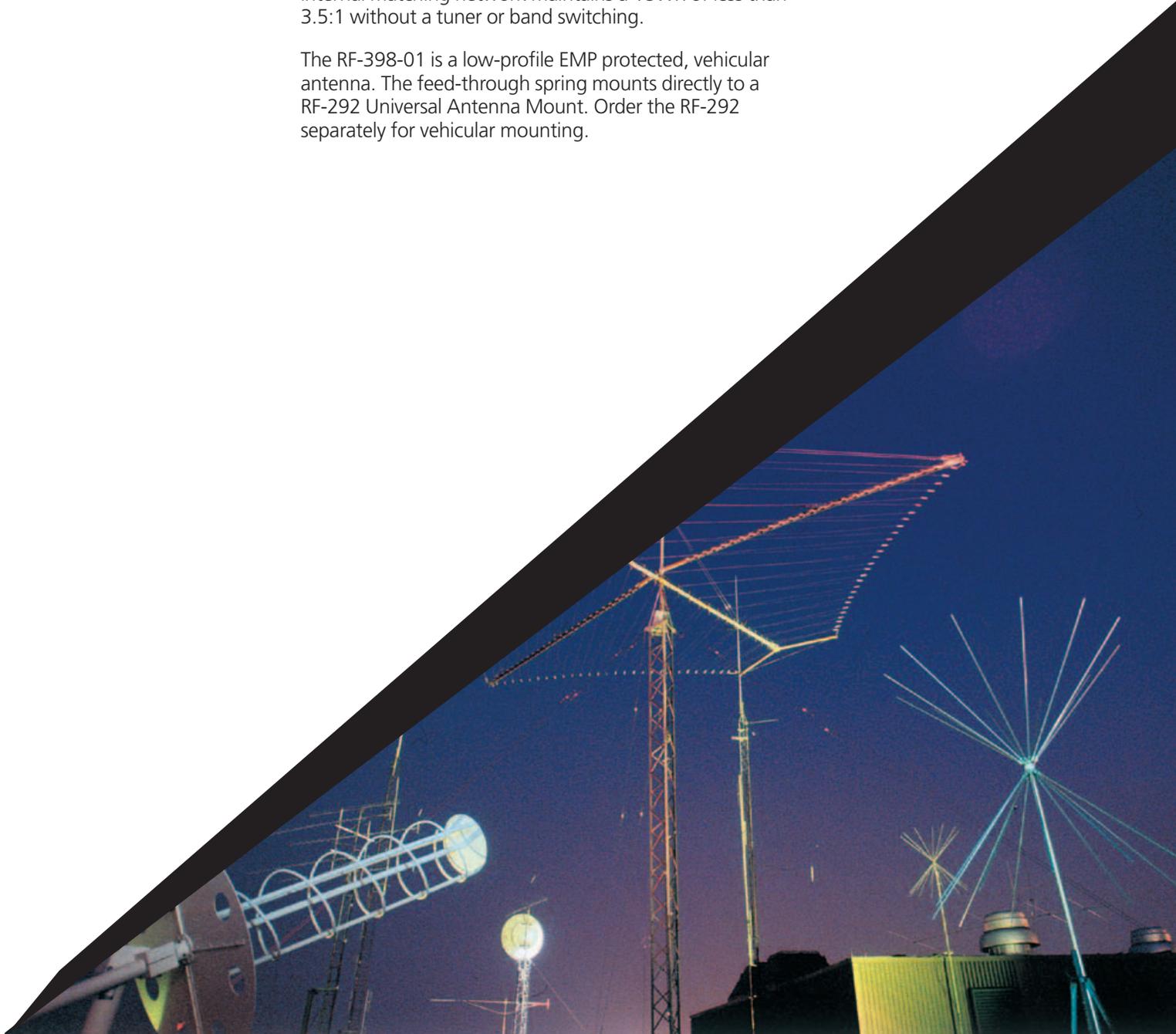


RF-398-01
VHF LOW-BAND
VERTICAL MONOPOLE
ANTENNA

*a vertically polarized
vehicular antenna*

The RF-398-01 Low Profile Vehicular VHF Antenna is a broadband (30 to 90 MHz), vertically polarized, end-fed monopole antenna designed for applications where short antenna length or antenna concealment is important. Operating over the 30 to 90 MHz frequency range, the internal matching network maintains a VSWR of less than 3.5:1 without a tuner or band switching.

The RF-398-01 is a low-profile EMP protected, vehicular antenna. The feed-through spring mounts directly to a RF-292 Universal Antenna Mount. Order the RF-292 separately for vehicular mounting.



Electrical

- **Frequency Range**
30 to 90 MHz
- **Polarization**
Vertical
- **Impedance**
50 ohms (nominal)
- **VSWR**
Less than 3.5:1 (per MIL-A-49283)
- **Gain**
-5.8 dB at low end of band, gradually increasing to
-1.7 dB at high end of band (per MIL-A-49283)
- **Power Rating**
70 Watts
- **Matching Circuit**
Passive, broadband
- **Radiation Pattern**
Omnidirectional

Environmental

- **Salt Spray**
Salt spray resistant

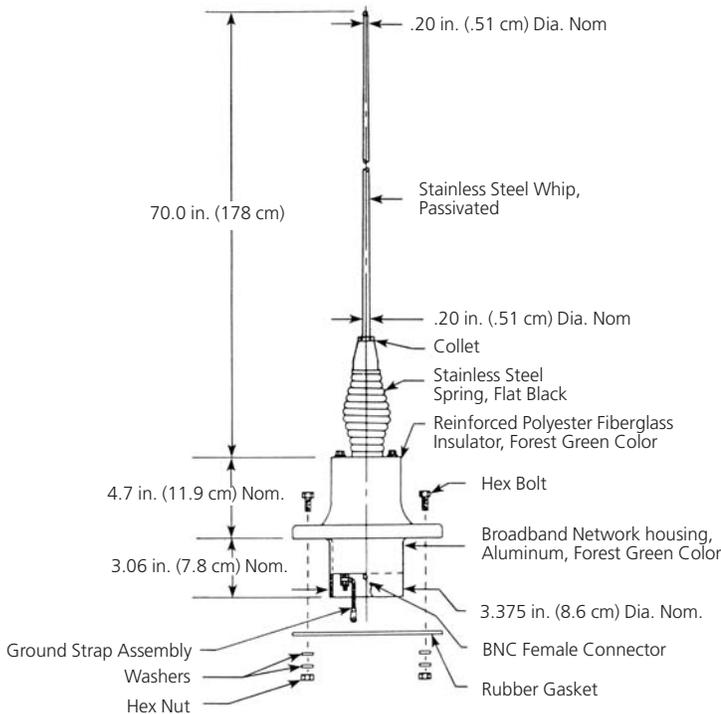
Mechanical

- **Height**
1.9 m (74.7 in)
- **Weight**
2.3 kg (5 lbs))
- **RF Connection**
BNC female
- **Bolt-Hole Pattern**
Four 0.5 inch holes spaced on a 4.5 inch bolt-hole circle
- **Construction**
Two piece construction:
 - Passivated stainless steel element -- 0.20 inch (0.51 cm) at base tapering to 0.10 inch (0.25 cm) at tip.
 - Reinforced polyester fiberglass mount with spring.

Features

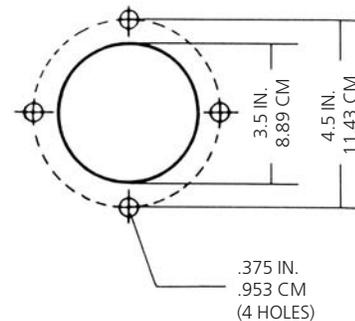
- Short length
- Thin radiating element
- Matching Network Built-In
- 70 Watt capability
- High voltage isolation
- Standard Universal Mounting
- Full MIL-SPEC design

RF-398-01 Mechanical Details



RF-398-01 Antenna Mounting

Detail for mounting without RF-292 Universal Antenna Mount



Specifications are subject to change without notice.