

MODEL

7031

Wideband Active Receive Antenna

TCI TECHNOLOGY FOR
COMMUNICATIONS
INTERNATIONAL



The 7031 Active Receive Antenna is an elegantly simple wideband receive-only antenna that is ideal where space is limited and the signal environment is crowded. The 7031 consists of a monopole antenna (125 cm/49 in) mounted directly to a high-dynamic-range, low-noise amplifier.

The amplifier is the key to the 7031's outstanding performance. The low-noise, low-capacitance, and high-impedance input provides good sensitivity over the entire frequency band. The amplifier's wide linear amplitude range and high 2nd- and 3rd-order IMD intercepts assure spur-free response even in the presence of multiple large-amplitude signals. Overload protection circuitry prevents damage from excessive input.

Options

Input Filtering

- 2–30 MHz Band pass

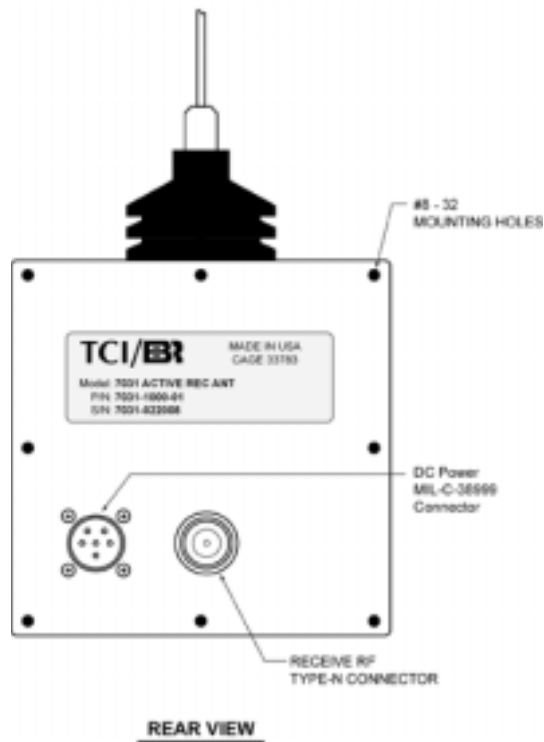
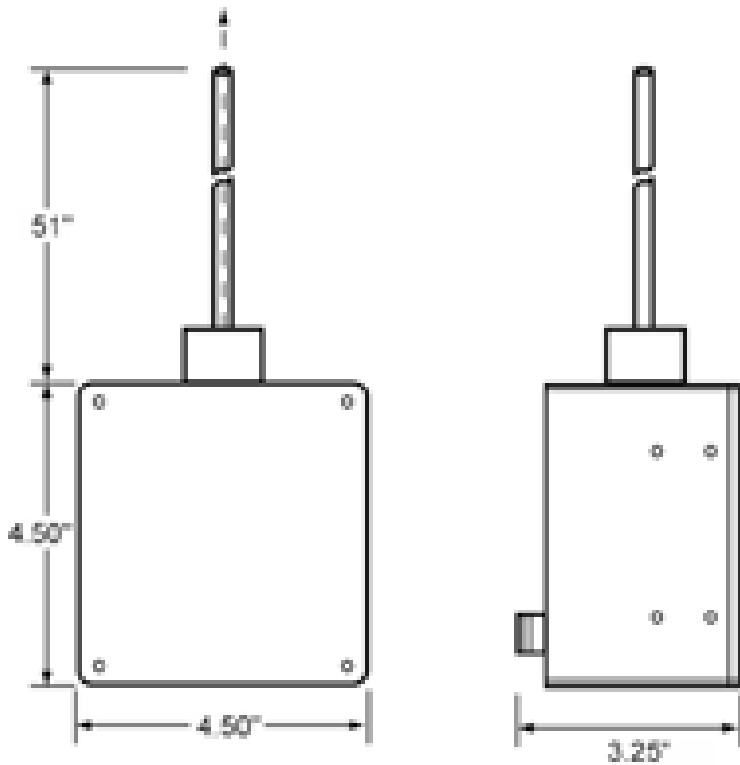
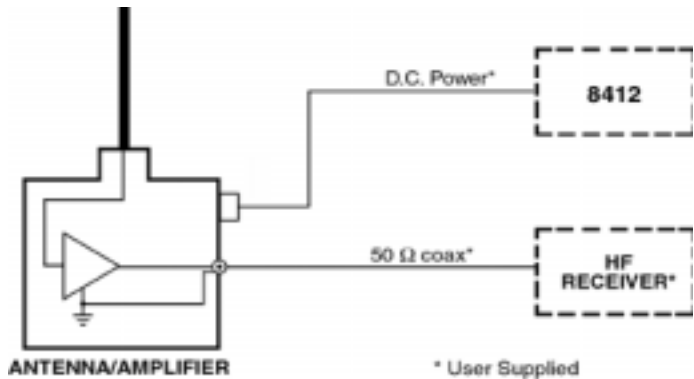
- **Wideband, 9 kHz–80 MHz**
- **Low noise floor — maximum sensitivity**
- **High 2nd- and 3rd-order IMD intercepts, minimizing spurious signals**
- **Small size ideal for limited spaces**
- **Rugged and waterproof**

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Specifications

- Frequency Range** 9 kHz to 80 MHz
- Sensitivity** 0.1 μ V/m, 1 - 40 MHz
(1 Hz bandwidth)
- Antenna Factor** 12 dB, 1 - 40 MHz
- RF Output**
Connector Type N
Impedance 50
- Power** +18 to +24 VDC,
70 mA max.
- Power Connector** MIL-C-38999,
MS2750810B98P
- Weight**
Antenna/amplifier 2.7 kg (6.0 lb)
- Interconnecting Cables** 50' coaxial cable between
antenna/amplifier and customer
equipment with Type N con-
nections (not supplied); power
cable between power supply
and antenna/amp



Antenna/Amplifier

7031-310500

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