

BASE ANTENNA

9390 TUNED DIPOLE



KEY FEATURES

- Continuous 1.6 to 30 MHz coverage
- 150W RF power rating
- Fast memory tune
- Exceptional weak signals performance with built-in broadband RX amplifier
- Supports 2G and 3G Automatic Link Establishment (ALE)

Codan's 9390 Automatic Tuning HF Dipole is designed for tactical and fixed base station applications where rapid deployment or simplified installation in space restricted areas is required without compromising quality of communication. The ultra-compact 9390 HF antenna system is optimised for both short and long distance communications.

HIGH PERFORMANCE

The 9390 antenna is an automatic tuning HF dipole with continuous frequency coverage throughout the 1.6–30 MHz HF band. It radiates with omnidirectional pattern in both vertical and horizontal configurations. When installed horizontally at 5 to 10 metre heights, 9390 antenna exhibits excellent NVIS performance. A built-in broadband receive amplifier and a low insertion loss RF-circuit ensure excellent receive and transmit performance. With ultra-fast tuning and 150 W power handling capability, the 9390 antenna is an ideal broadband HF field antenna for secure data and voice communications in conventional and 2G /3G ALE networks.

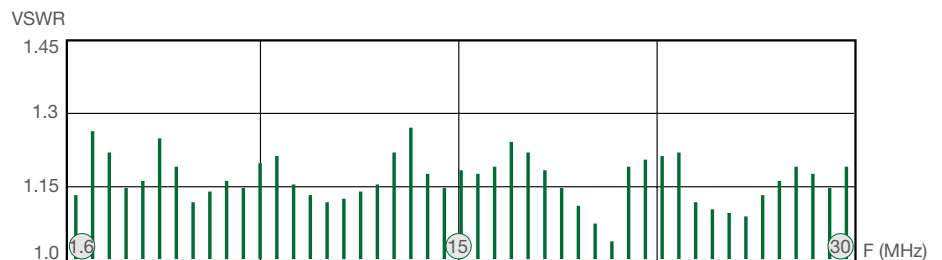
EASY INSTALLATION

The 9390 antenna is supplied with a quick-lock clamping system and optional 6 m mast. The antenna package is only 1.8 m long, making it compact for air and ground transportation. The 9390 tuned dipole antenna requires less than 30 minutes setup or take-down by a single person.

RUGGED DESIGN

Housed in a fully weather-proof and rugged MIL-STD 810G enclosure the 9390 antenna is impervious to dust and water ingress. Engineered with use of the latest generation of materials and technology, the 9390 dipole is tested for reliable operation in the harshest environmental conditions.

9390 Typical Standing Wave Ratio



9390 operates in NVIS mode at 5-10m heights
Improved gain is available as height reaches 12m

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CODAN
COMMUNICATIONS

SPECIFICATIONS

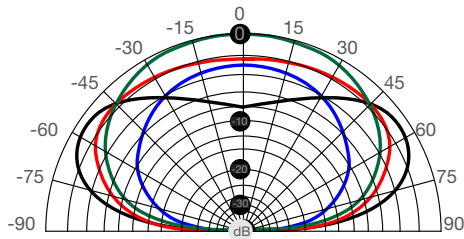
Transmit frequency range	1.6 to 30MHz
Receive frequency range	250KHz to 30MHz
RF power rating	150W PEP voice and data
MAX VSWR	1.4:1
Input impedance	50Ω
Tuning speed specifications	730 ms average for new frequency 385 ms average for memory tune
Memory channels	200
DC operating range	10-30V DC
Current draw - tuning	5.2A maximum
Current draw - static	60-110mA
Operating temperature	-40°C to +70°C
Protection	Reverse Polarity, Short Circuit, Over Voltage
RF connector style	RG58 UHF
Control connector style	8-Pin
MIL-STD-810	MIL-STD-810G Fungus, Sand and Dust, Salt Fog
Ingress protection	IP67
Weight	8.5 kg
Antenna span	4620 x 181 mm
Guy install footprinter - diametre	6000 x 6000
Colour	Black
Compliance	MIL-STD-461, IEC/EN 61000

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.
Continuous transmission for periods of greater than 10 minutes using digital modes may result in reduced radiation efficiency.

Relative Elevation Pattern

(9390 at 5m over ideal ground)

1.6 MHz Max Gain 0.28 dB
9.6 MHz Max Gain 8.15dB
17.6 MHz Max Gain 6.7 dBi
25.6 MHz Max Gain 7.31dBi



Relative Azimuth Pattern at EL -60°

(9390 at 5m over ideal ground)

1.6 MHz
9.6 MHz
17.6 MHz
25.6 MHz

