

PORTABLE ANTENNA

WHISKEY BROADBAND ANTENNA

DTC
A CODAN COMPANY

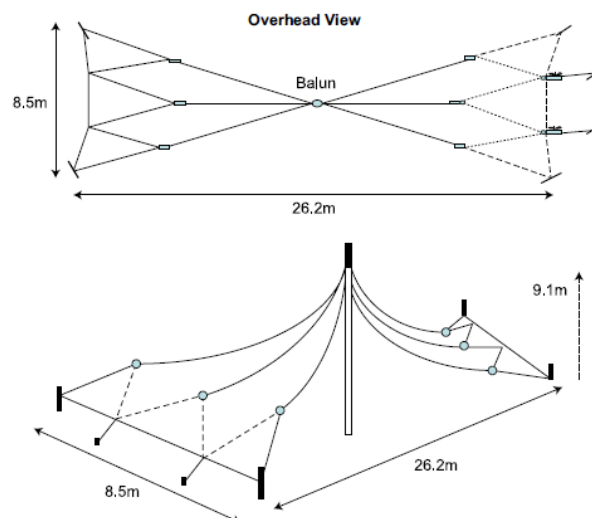
The Whiskey antenna is designed to provide coverage from near to mid-range HF communications (0-4000km).

The Whiskey antenna fulfills many use case scenarios, from permanent to semi-permanent installations, and provides true broadband capability with a wide omni-directional footprint and NVIS pattern. The antenna is lightweight, easily transportable and quick to set up rapid assembly kit from.

Its strong NVIS (Near Vertical Incidence Skywave) capabilities allow for communications in challenging environments and its full 2-30 MHz spectrum broadband coverage makes it an excellent antenna for ALE operations without the need for a tuner/coupler.

Radial ground plane or grounding is not required making the antenna ideal for ground/rooftop installations and mobile “on the move” field use.

The Whiskey antenna is suited for use with the Codan CT15M mast.



KEY FEATURES

- Omni-directional theatre range HF antenna
- 2 - 30 MHz True broadband
- Designed to meet MIL-STD- 810G High Temperature, Low Temperature, Rain, Salt Fog, Sand and Dust, Immersion, Shock, Icing / Freezing Rain
- Designed to meet IP67 rating
- No 'dead spot' in the transmission patterns over the entire frequency band
- Wind rating of 90 mph with standard stakes
- Power rating of 1 kW continuous
- Options up to 5 kW with an enhanced balun and larger resistors
- Capable of simultaneous voice and data communication

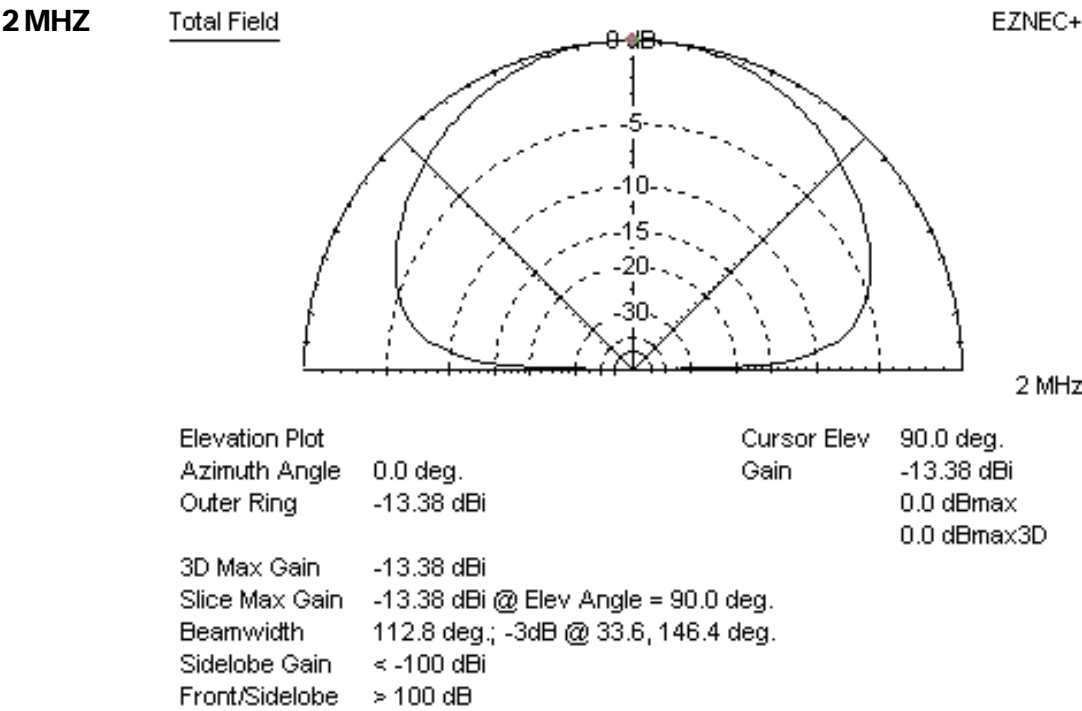


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GENERAL	
Frequency	2-30 MHz Broadband
Power (5 kW Avail.)	1 kW CW, 4 kW PEP
Impedance	50 Ohms
Polarization	Horizontal
VSWR	1.8:1 Max
Pattern	Omni-directional
Weight	19.5 kg with stakes (43 lbs)
Suggested Balun height	9 m (30ft)

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.



*Items subject to change. Contact DTC for latest component specifications.

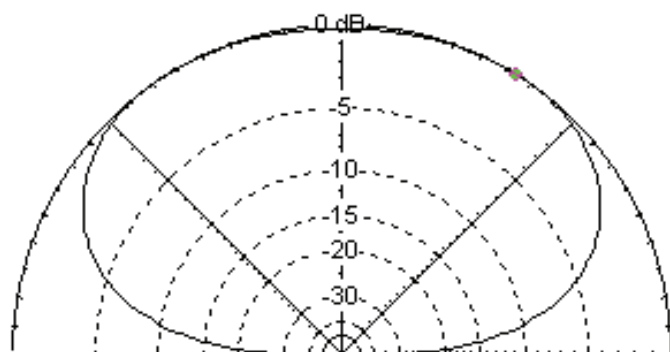
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10 MHZ

Total Field

EZNEC+



11 MHz

Elevation Plot

Azimuth Angle 89.0 deg.

Outer Ring 2.92 dBi

Cursor Elev 58.0 deg.

Gain 2.92 dBi

0.0 dBmax

0.0 dBmax3D

3D Max Gain 2.92 dBi

Slice Max Gain 2.92 dBi @ Elev Angle = 58.0 deg.

Beamwidth 132.6 deg.; -3dB @ 23.7, 156.3 deg.

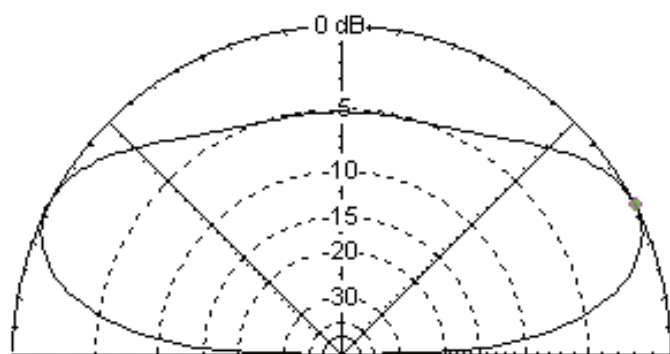
Sidelobe Gain 2.92 dBi @ Elev Angle = 121.0 deg.

Front/Sidelobe 0.0 dB

24 MHZ

Total Field

EZNEC+



20 MHz

Elevation Plot

Azimuth Angle 89.0 deg.

Outer Ring 1.07 dBi

Cursor Elev 27.0 deg.

Gain 1.07 dBi

0.0 dBmax

0.0 dBmax3D

3D Max Gain 1.07 dBi

Slice Max Gain 1.07 dBi @ Elev Angle = 27.0 deg.

Beamwidth 38.0 deg.; -3dB @ 12.5, 50.5 deg.

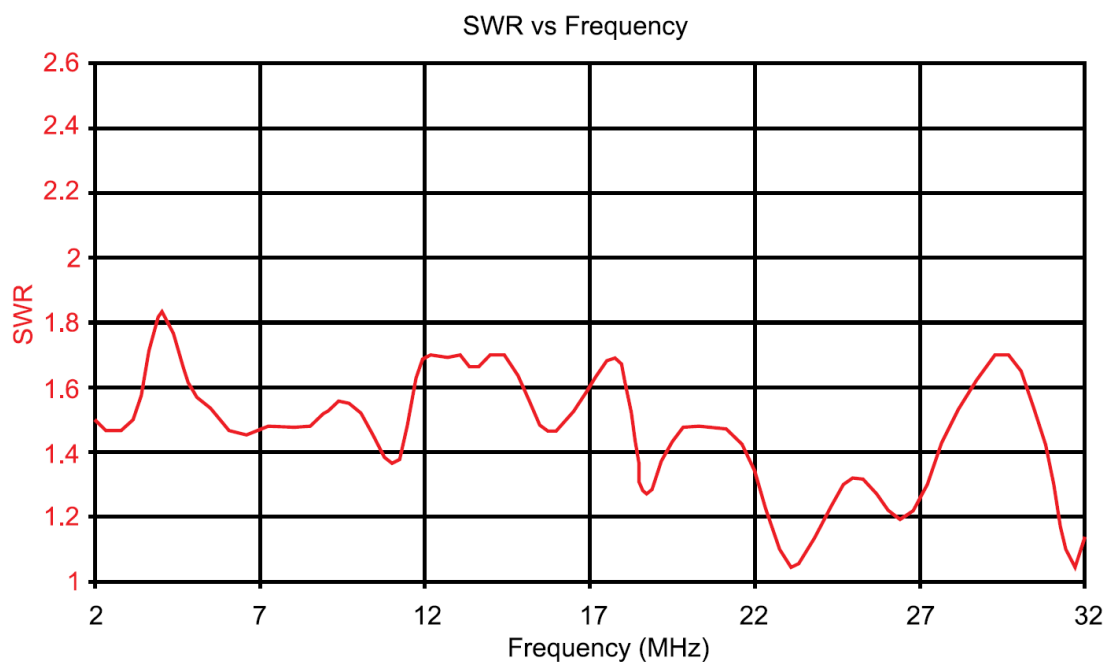
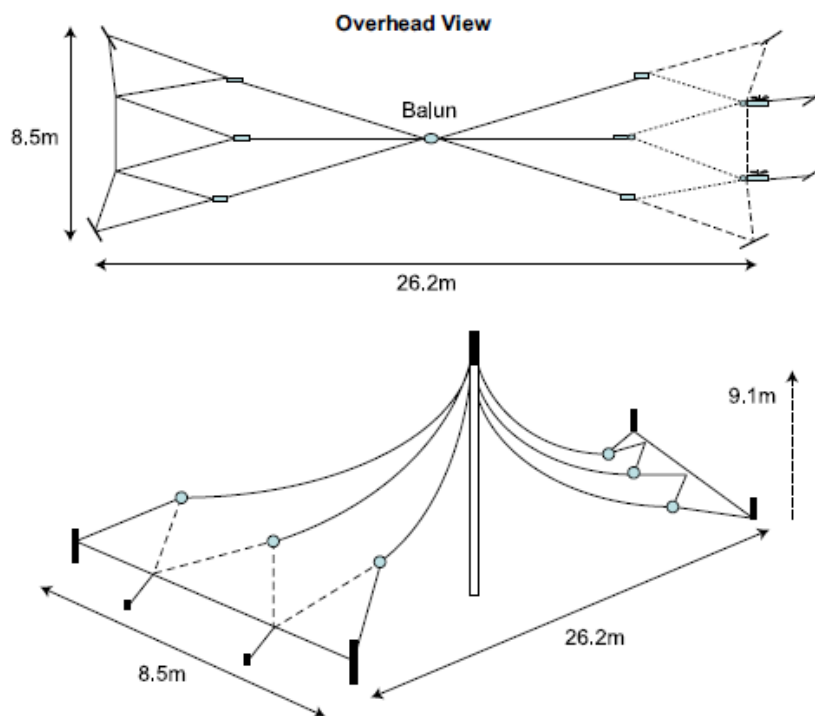
Sidelobe Gain 1.07 dBi @ Elev Angle = 153.0 deg.

Front/Sidelobe 0.0 dB

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