Series Antennas

2000

AZIMUT

2000 Series Antennas

Antenna

OA 2000V

Purpose

The OA 2000V Antenna is designed for receiving and transmitting high frequency signals with vertical polarization in the frequency range from 118 MHz to 137 MHz.

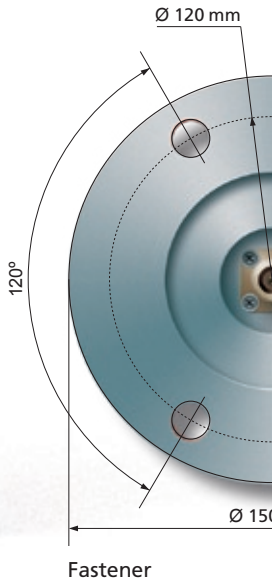
Features

The antenna suppresses surface currents and provides high protection against lightning strikes by short circuits of the radiating surfaces on the direct current. The short circuit is provided by a connecting tube placed inside the vibrator. The construction of the antenna allows it to resist high wind forces and mechanical loads and provides a low wind profile. The low weight and small dimensions are additional benefits of the antenna.

The antenna is painted with polyester powder paint RAL 3000 (red); the color can be changed if needed to paint RAL 7035 (light grey) or RAL 6003 (protective). The antenna is painted by spraying powder enamel for a high-quality weather-resistant coating.

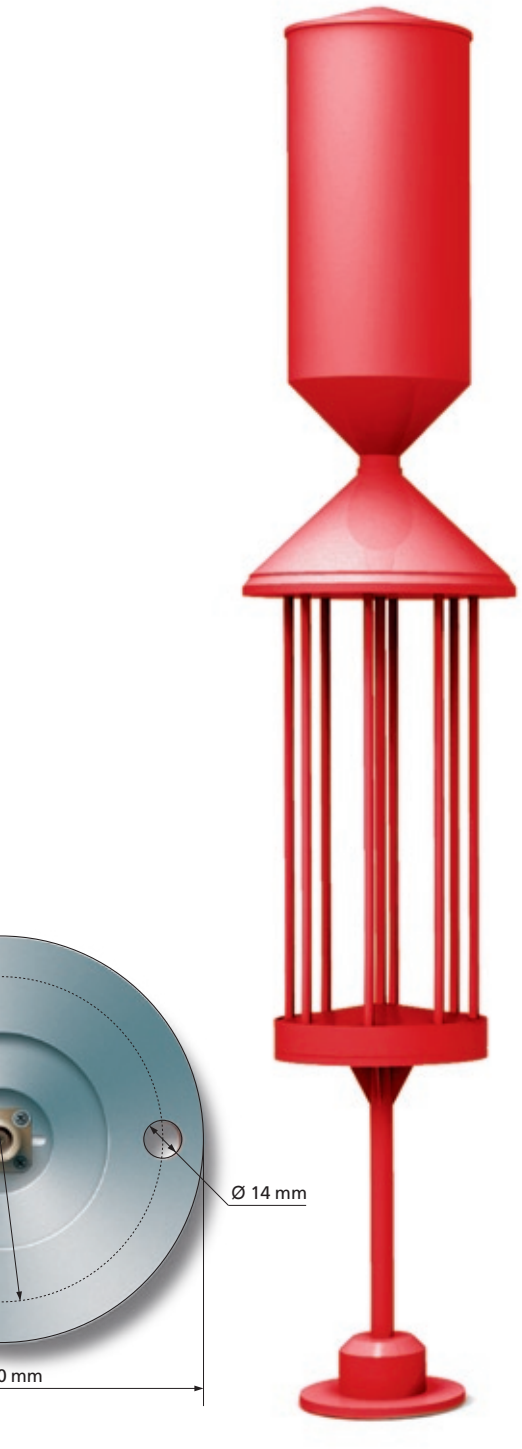
Main Technical Specifications of OA 2000V

Frequency range	118 MHz to 137 MHz
Band width	19 MHz
VSWR, less than	2
Gain relative to isotropic dipole, at least	2 dB
Impedance	50 Ω
Polarization	vertical
Maximal power	1 kW
Input	N-type connector in the base of the antenna
Weight	3.4 kg
Arm diameter	70 mm
Wind force effect (wind speeed), at most	55 m/s
Height	1375 mm



Antenna

OA 2003W



Purpose

The OA 2003W Antenna is designed for receiving and transmitting high frequency signals with vertical polarization in the frequency range 100 MHz to 400 MHz.

Features

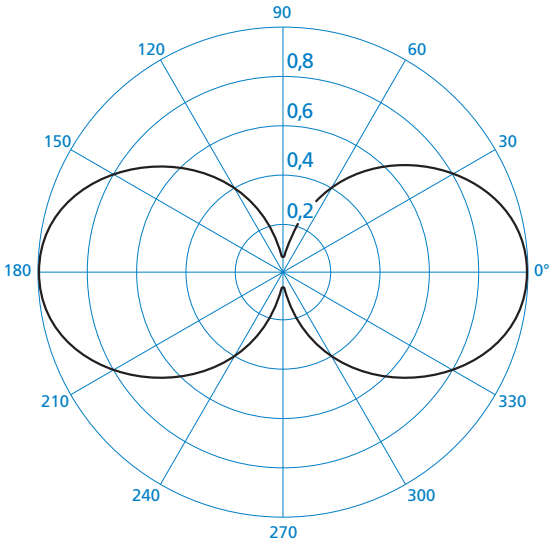
One of the special features of this antenna is its capability to suppress surface currents. The construction of the antenna allows it to endure high wind force and mechanical loads and provides a low wind profile. The low weight and small dimensions are additional features of the antenna.

The antenna is painted with polyester powder paint RAL 3000 (red); the color can be changed if needed to paint RAL 7035 (light grey) or RAL 6003 (protective). The antenna is painted by spraying powder enamel for a high-quality weather-resistant coating.

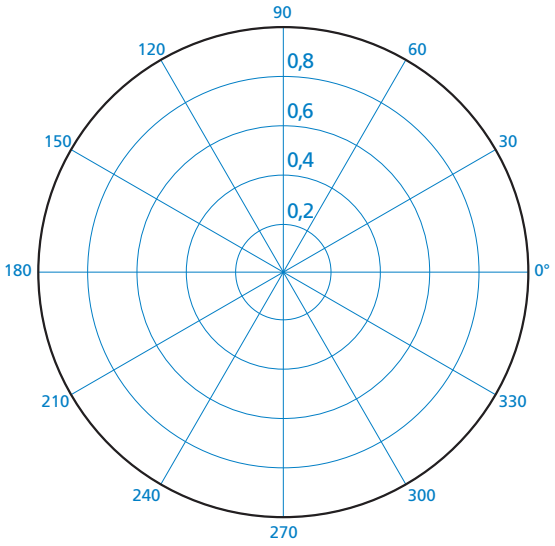
Main Technical Specifications of OA 2003W

Frequency range	100 MHz to 400 MHz
Band width	300 MHz
VSWR, less than	2.5
Gain relative to isotropic dipole, at least	
· within the band from 118 MHz to 138 MHz	2 dB
· at other frequencies	1 dB
Impedance	50 Ω
Polarization	vertical
Maximal power	1 kW
Input	N-type connector in the base of the antenna
Weight	7 kg
Framework diameter	190 mm
Wind force effect (wind speeed), at most	55 m/s
Height	1260 mm

Radiation pattern (OA 2000V)

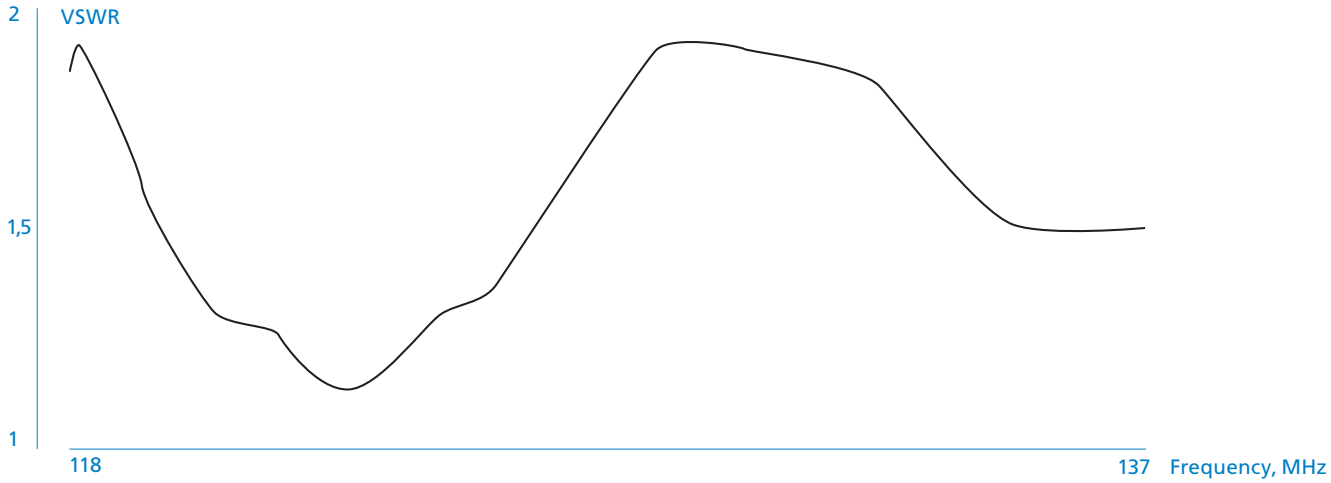


Vertical plane



Horizontal plane

Dependence of the VSWR on frequency (OA 2000V)



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Booklet designed by Art. Lebedev Studio in 2007