

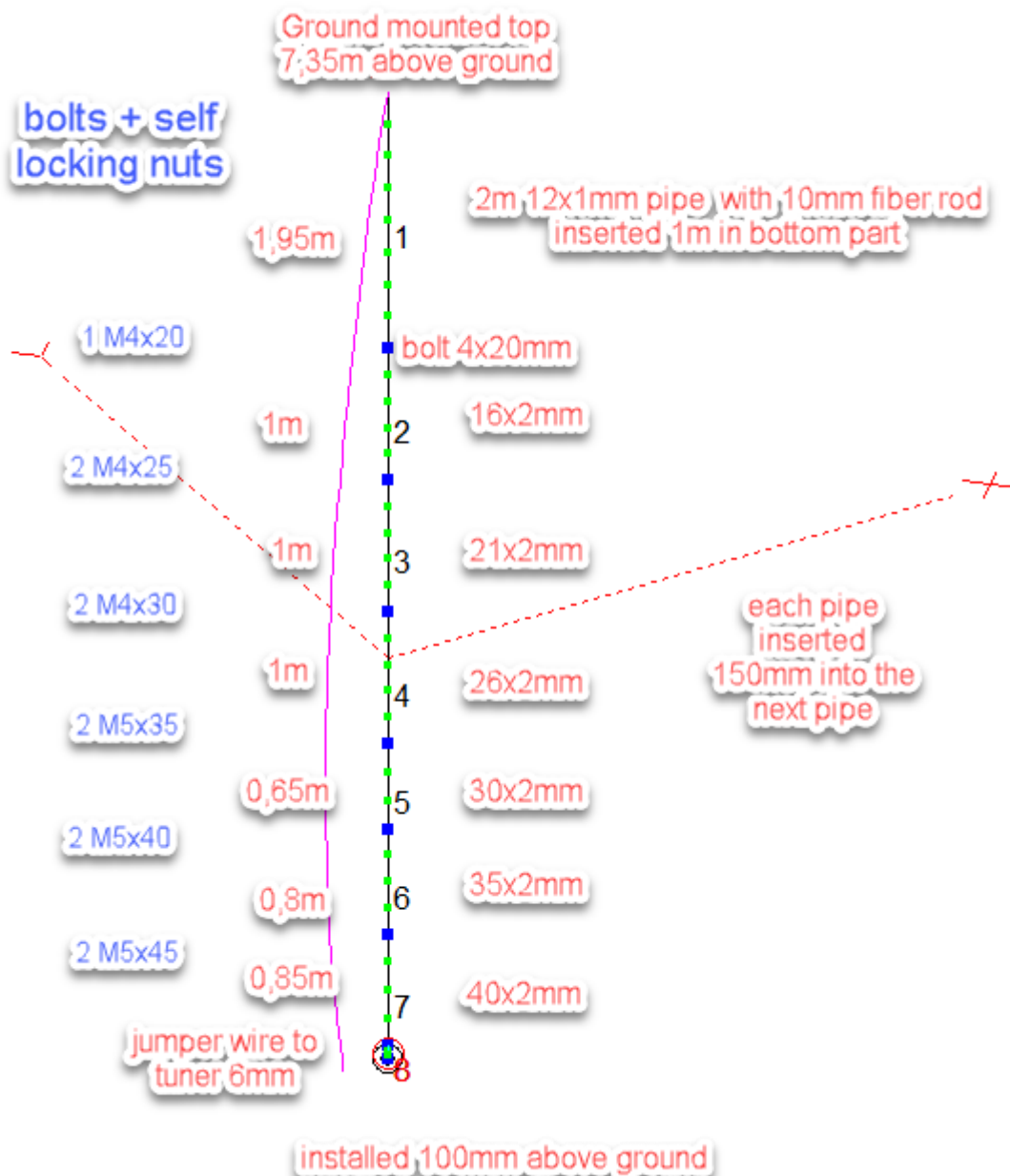


Eidolon VHD7,35 Free standing 7,35m vertical

The antenna is built from 6061-T6 aluminum and calculated for a wind speed of 150km/h. = 42m/sec. Can be installed close to the ground or elevated with radials.

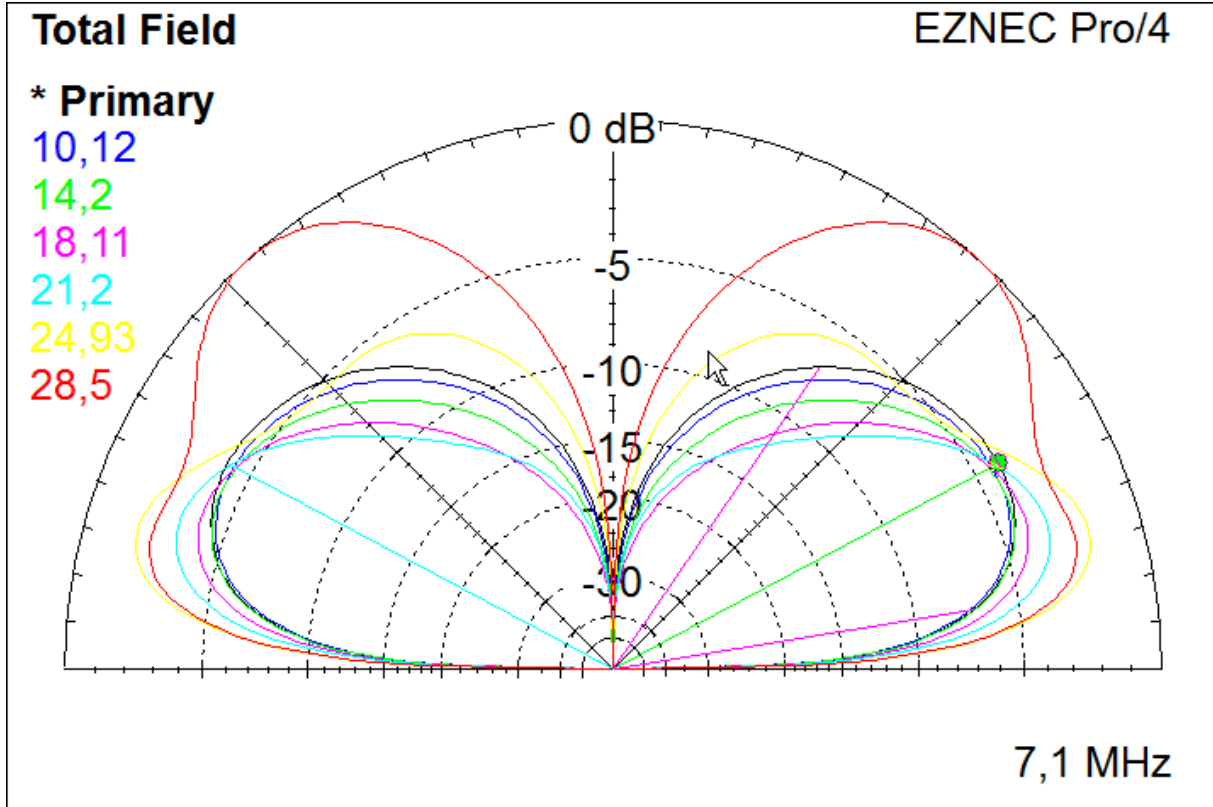
This antenna needs an antenna tuner/matching network at its base to operate on all the bands from 7 to 30 MHz.

The antenna “looks” like this:



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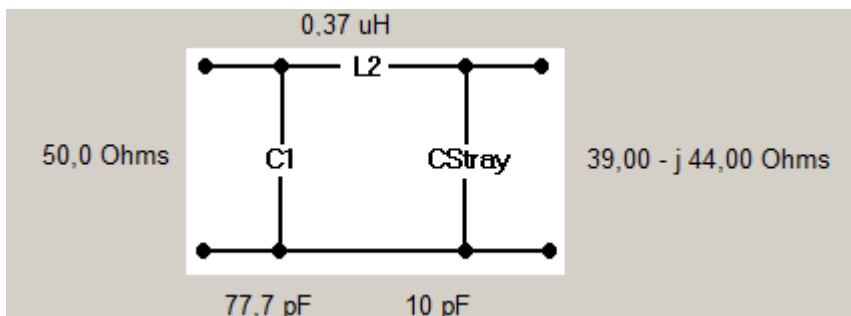
Expected radiation diagrams for 40 to 10m, ground depending:



Expected radiation resistance:

Frequency = 28,5 MHz

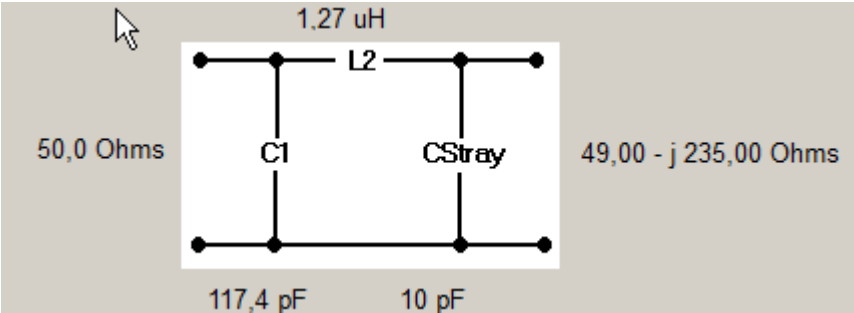
Source 1 Voltage = 297,1 V at -48,37 deg.
 Current = 5,066 A at 0,0 deg.
 Impedance = 38,97 - J 43,84 ohms
 Power = 1000 watts
 SWR (50 ohm system) = 2,675 (75 ohm system) = 2,737



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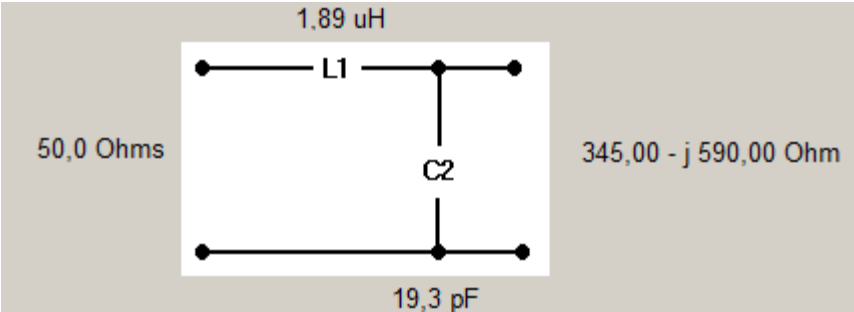
Frequency = 24,93 MHz

Source 1 Voltage = 1082 V at -78,16 deg.
 Current = 4,504 A at 0,0 deg.
 Impedance = 49,31 - j 235,1 ohms
 Power = 1000 watts
 SWR (50 ohm system) = 24,386 (75 ohm system) = 17,071



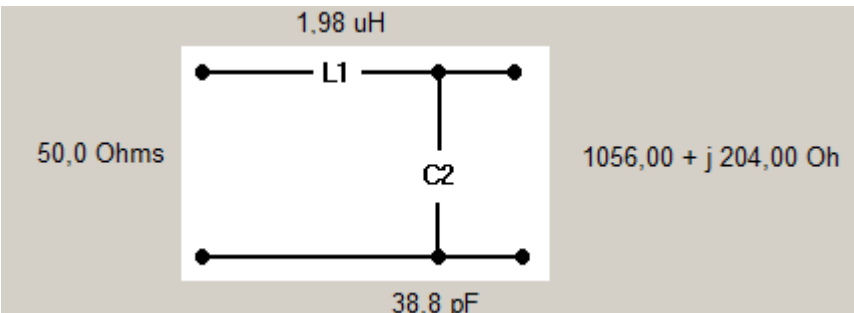
Frequency = 21,2 MHz

Source 1 Voltage = 1165 V at -59,72 deg.
 Current = 1,702 A at 0,0 deg.
 Impedance = 345,3 - j 591,5 ohms
 Power = 1000 watts
 SWR (50 ohm system) = 27,275 (75 ohm system) = 18,274



Frequency = 18,11 MHz

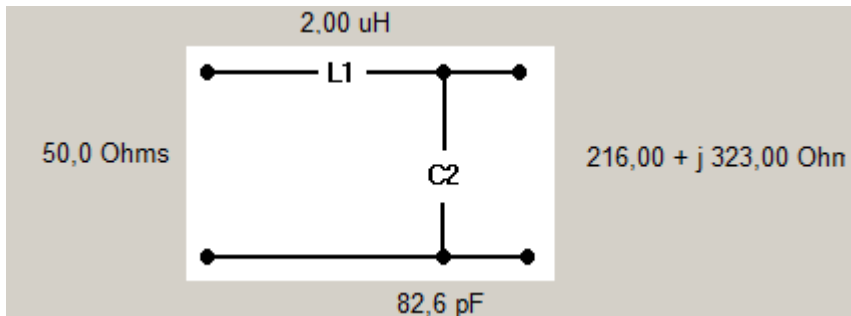
Source 1 Voltage = 1047 V at 10,94 deg.
 Current = 0,973 A at 0,0 deg.
 Impedance = 1056 + j 204,1 ohms
 Power = 1000 watts
 SWR (50 ohm system) = 21,915 (75 ohm system) = 14,612



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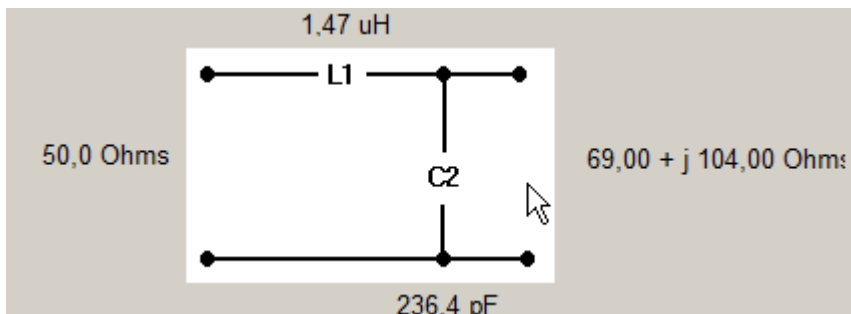
Frequency = 14,175 MHz

Source 1 Voltage = 835,6 V at 56,21 deg.
 Current = 2,152 A at 0,0 deg.
 Impedance = 216 + J 322,8 ohms
 Power = 1000 watts
 SWR (50 ohm system) = 14,127 (75 ohm system) = 9,553



Frequency = 10,125 MHz

Source 1 Voltage = 474,5 V at 56,38 deg.
 Current = 3,806 A at 0,0 deg.
 Impedance = 69,05 + J 103,8 ohms
 Power = 1000 watts
 SWR (50 ohm system) = 5,029 (75 ohm system) = 3,828



Frequency = 7,1 MHz

Source 1 Voltage = 264,5 V at -46,05 deg.
 Current = 5,448 A at 0,0 deg.
 Impedance = 33,69 - J 34,95 ohms
 Power = 1000 watts
 SWR (50 ohm system) = 2,480 (75 ohm system) = 2,802

