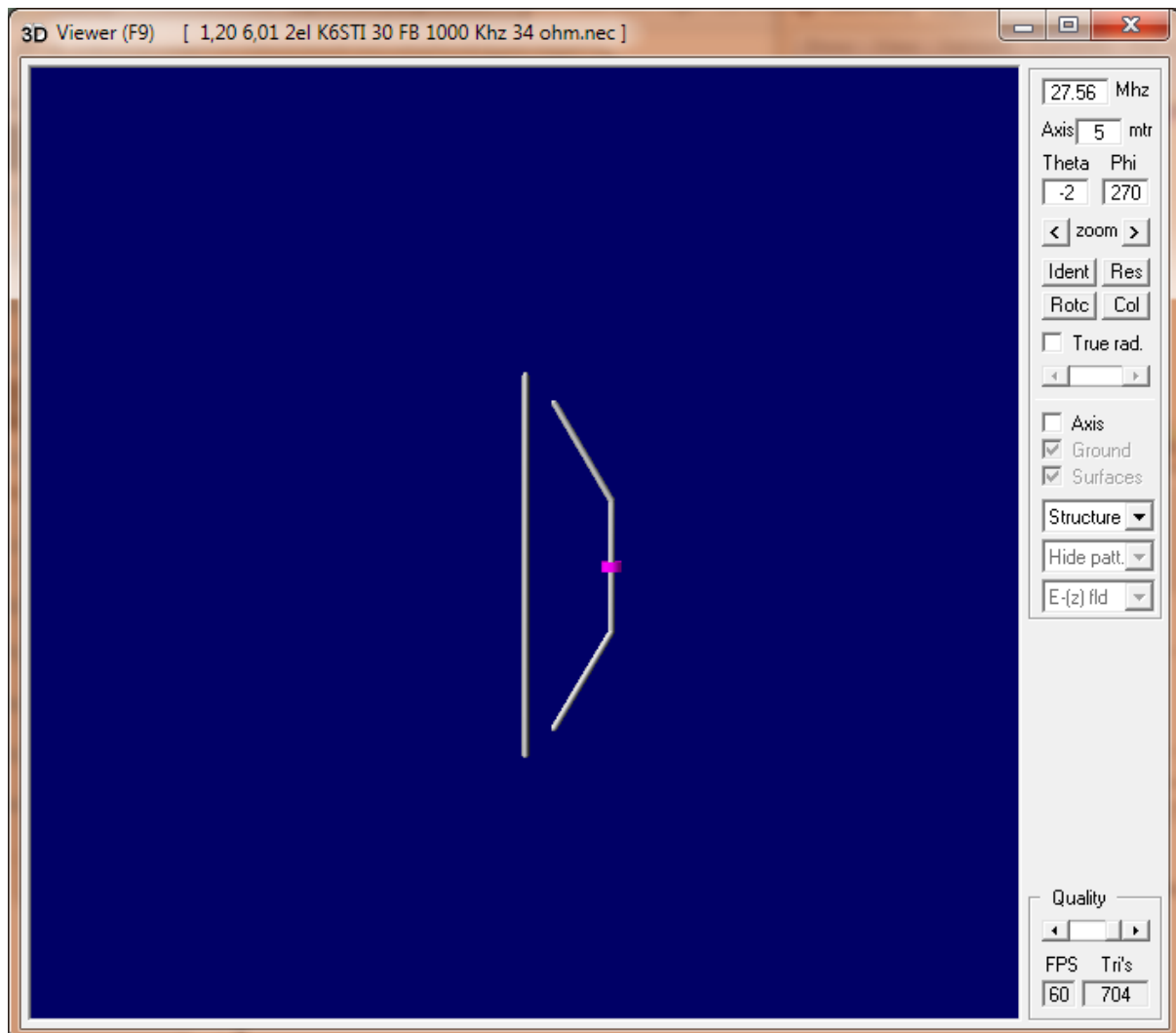


# 1,20 M 2el V-Yagi



Most 2el yagi's are have either gain or front to back.

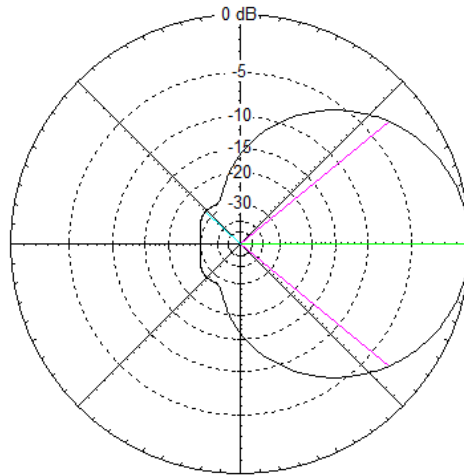
A exception to this rule is the 2el V-Yagi.

Based on a original idea from k6STI.

Designed by HPSD 01-10-2013

Total Field

EZNEC Pro/4



27,555 MHz

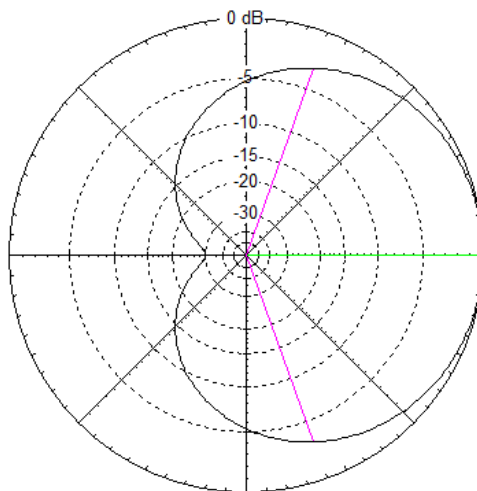
Azimuth Plot  
Elevation Angle 0,0 deg.  
Outer Ring 6,0 dBi  
  
Slice Max Gain 6,0 dBi @ Az Angle = 0,0 deg.  
Front/Back 30,32 dB  
Beamwidth 78,6 deg.; -3dB @ 320,7, 39,3 deg.  
Sidelobe Gain -21,03 dBi @ Az Angle = 137,0 deg.  
Front/Sidelobe 27,03 dB

Cursor Az 2,0 deg.  
Gain 6,0 dBi  
0,0 dBmax

The free space azimuth plot 6 dBi and a front to back of 30,32 dB.

Total Field

EZNEC Pro/4



27,555 MHz

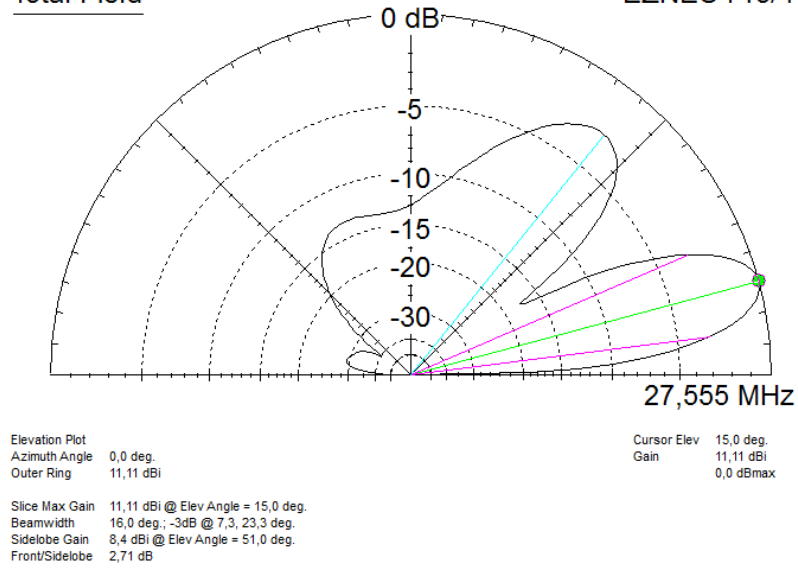
Elevation Plot  
Azimuth Angle 0,0 deg.  
Outer Ring 6,0 dBi  
  
Slice Max Gain 6,0 dBi @ Elev Angle = 0,0 deg.  
Front/Back 30,32 dB  
Beamwidth 140,2 deg.; -3dB @ 289,9, 70,1 deg.  
Sidelobe Gain < -100 dBi  
Front/Sidelobe > 100 dB

Cursor Elev 0,0 deg.  
Gain 6,0 dBi  
0,0 dBmax

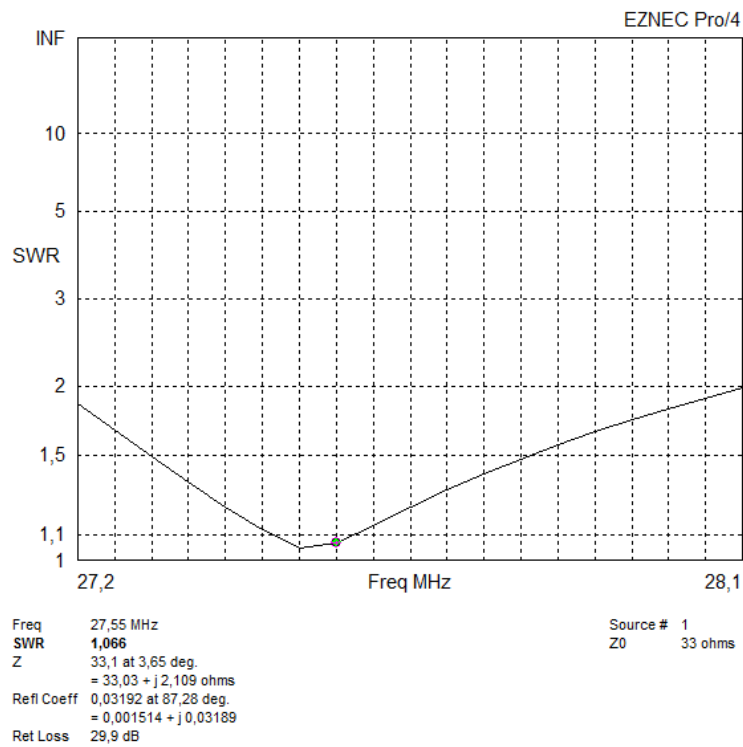
The free space elevation plot.

Total Field

EZNEC Pro/4



The elevation plot at 10 meters height above average ground.



The impedance of this version is 33 Ohms. A gamma-match or equivalent is needed.

## SIZES

The antenna is made out of MACO TUBING:

The center part of each element is:

15,875 diameter and 1,8288 meter long

The tips are 12,7mm (1/2 inch) and as long as the element length needs to be.

The bend part of the radiator is 1,574 meter long

The reflector has a total length of : 5,3 meters.

