

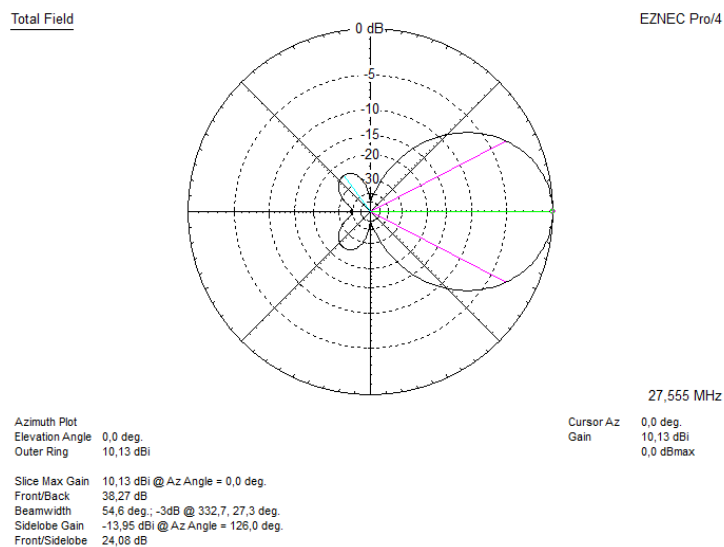
## 7,27 M 6el OWA 10,13 dBI



For: DX portion 11 meter band  
Antenna Type: 6 el OWA-YAGI  
Folded Dipole radiator  
Designed by: HPSD version 1.01 Nov 2011

Boom length: 9,9 Meter  
Gain: 10,13 dBI (@27,555 Mhz)  
FB <38dB  
FR <34 dB  
Impedance: 50 ohms, direct fed.

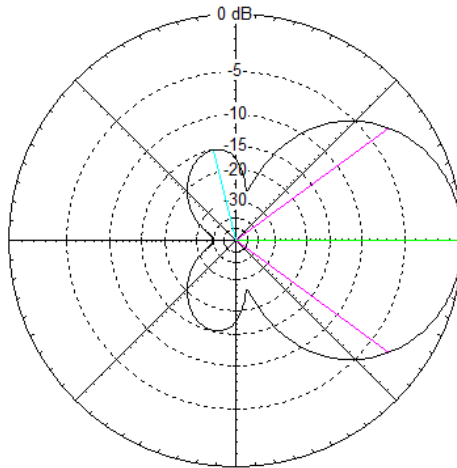
Power handling: >20 Kw  
SWR below 1:1.1 > 1000 Khz.  
SWR below 2:1 > 2200 Khz



Above the azimuth plot.

Total Field

EZNEC Pro/4



27,55 MHz

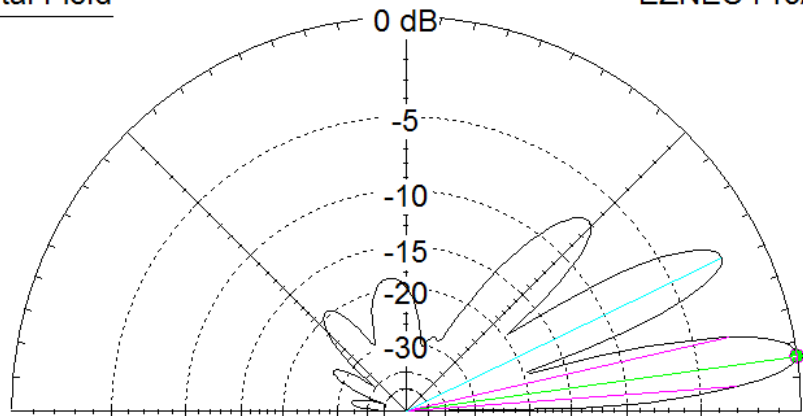
Elevation Plot  
Azimuth Angle 0,0 deg.  
Outer Ring 10,13 dBi  
  
Slice Max Gain 10,13 dBi @ Elev Angle = 0,0 deg.  
Front/Back 38,54 dB  
Beamwidth 72,4 deg.; -3dB @ 323,8, 36,2 deg.  
Sidelobe Gain -5,1 dBi @ Elev Angle = 104,0 deg.  
Front/Sidelobe 15,23 dB

Cursor Elev 0,0 deg.  
Gain 10,13 dBi  
0,0 dBmax

Above the freespace elevation plot.

Total Field

EZNEC Pro/4

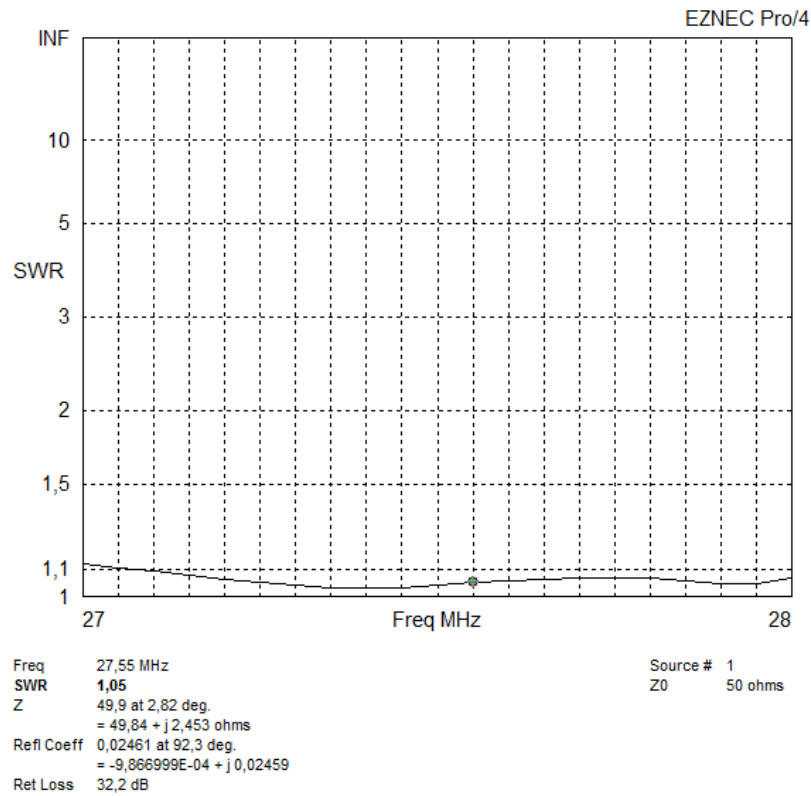


27,55 MHz

Elevation Plot  
Azimuth Angle 0,0 deg.  
Outer Ring 15,63 dBi  
  
Slice Max Gain 15,63 dBi @ Elev Angle = 8,0 deg.  
Beamwidth 8,6 deg.; -3dB @ 4,2, 12,8 deg.  
Sidelobe Gain 13,61 dBi @ Elev Angle = 26,0 deg.  
Front/Sidelobe 2,02 dB

Cursor Elev 8,0 deg.  
Gain 15,63 dBi  
0,0 dBmax

Above the elevation plot at 18 meters height above average ground conditions.



The predicted SWR plot.

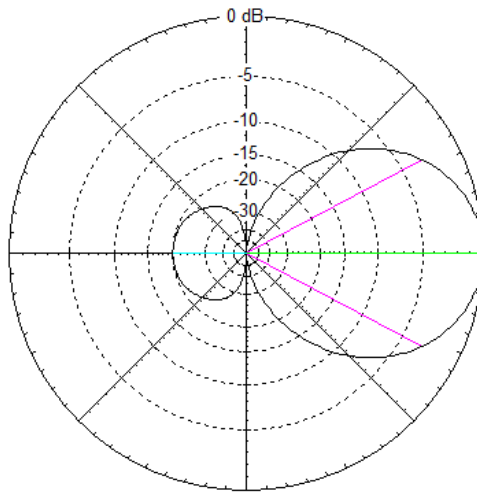
- The antenna has a “dipole” as radiator
- The element diameters are: 20mm and 16 mm
- The 20mm part is 2,00 meters long and the 16 mm part makes up for the rest of the element.

Element	Length	Distance
Reflector	2,79 M	0 M
Radiator	5,41 M	1,36 M
Director 1	5,10 M	1,85 M
Director 2	4,94 M	3,48 M
Director 3	4,84 M	5,00 M
Director 4	4,72 M	7,27 M

DO NOT CHANGE ELEMENT DIMENSIONS.

Total Field

EZNEC Pro/4



27 MHz

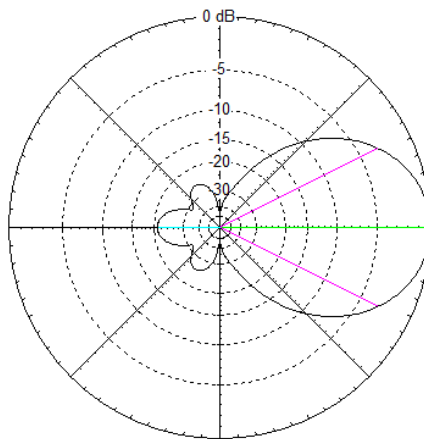
Azimuth Plot  
Elevation Angle 0,0 deg.  
Outer Ring 9,88 dBi  
  
Slice Max Gain 9,88 dBi @ Az Angle = 0,0 deg.  
Front/Back 20,1 dB  
Beamwidth 56,0 deg.; -3dB @ 332,0, 28,0 deg.  
Sidelobe Gain -10,22 dBi @ Az Angle = 180,0 deg.  
Front/Sidelobe 20,1 dB

Cursor Az 0,0 deg.  
Gain 9,88 dBi  
0,0 dBmax

Above the free space azimuth plot for 27 Mhz.

Total Field

EZNEC Pro/4



28 MHz

Azimuth Plot  
Elevation Angle 0,0 deg.  
Outer Ring 10,28 dBi  
  
Slice Max Gain 10,28 dBi @ Az Angle = 0,0 deg.  
Front/Back 20,84 dB  
Beamwidth 53,0 deg.; -3dB @ 333,5, 26,5 deg.  
Sidelobe Gain -10,56 dBi @ Az Angle = 180,0 deg.  
Front/Sidelobe 20,84 dB

Cursor Az 0,0 deg.  
Gain 10,28 dBi  
0,0 dBmax

Above the free space azimuth plot for 28 Mhz