

5,47 4el 10,22 dBI

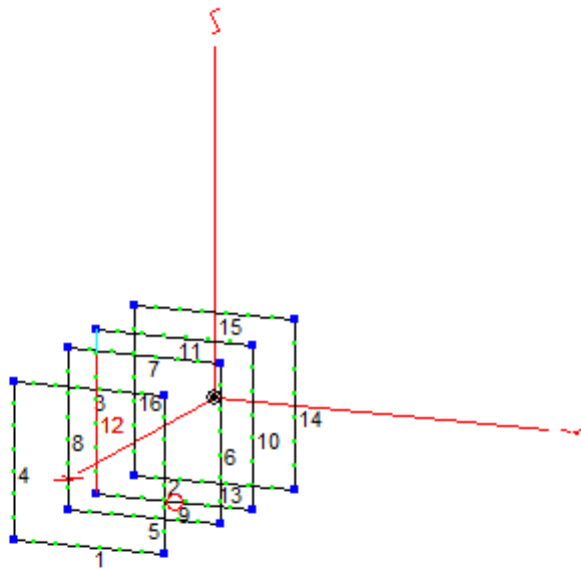
TYPE :

HPSD 4el QUAD

Gain: 10,22 dBI (8,07 dBD)
Gain: @ 18m height: 15,68 dBI
Front to back: >23,36 dB
Front to side: >19,52 dB
Azimuth-Beamwidth: 56,4 degrees
SWR bandwidth 2:1 850 Khz
SWR bandwidth 1:1 300 Khz
Max Power: >10Kw
Longest element: 2,893 meter
Boom length: 5,47 meter

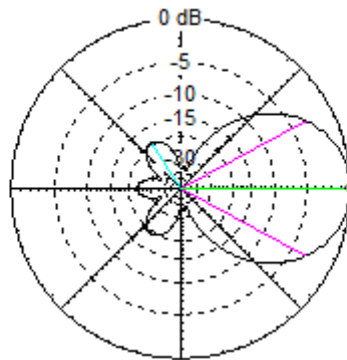
Stacking distance: 9,5 meter
Stacked Total gain: 13,02 dBI
Element diameter: 3 mm

EZNEC Pro/4



Below the azimuth plot:

Total Field



EZNEC Pro/4

27,555 MHz

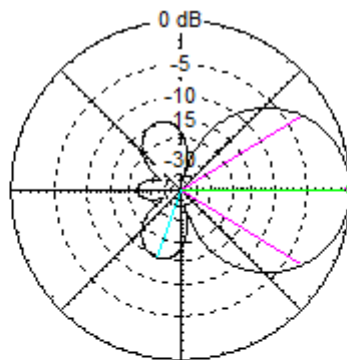
Azimuth Plot
Elevation Angle 0,0 deg.
Outer Ring 10,22 dBi

Cursor Az 0,0 deg.
Gain 10,22 dBi
0,0 dBmax

Slice Max Gain 10,22 dBi @ Az Angle = 0,0 deg.
Front/Back 23,36 dB
Beamwidth 56,4 deg.; -3dB @ 331,8, 28,2 deg.
Sidelobe Gain -9,3 dBi @ Az Angle = 123,0 deg.
Front/Sidelobe 19,52 dB

Below the elevation plot

Total Field



EZNEC Pro/4

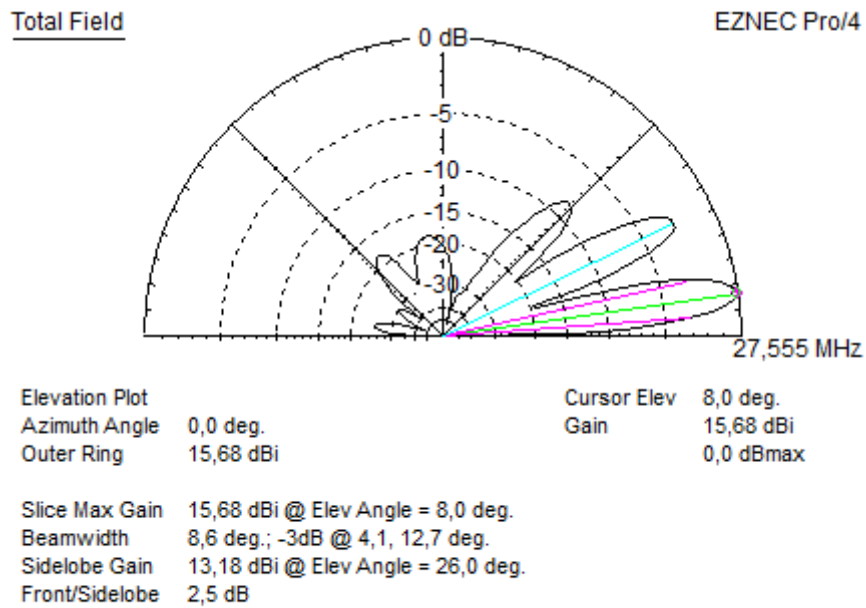
27,555 MHz

Elevation Plot
Azimuth Angle 0,0 deg.
Outer Ring 10,22 dBi

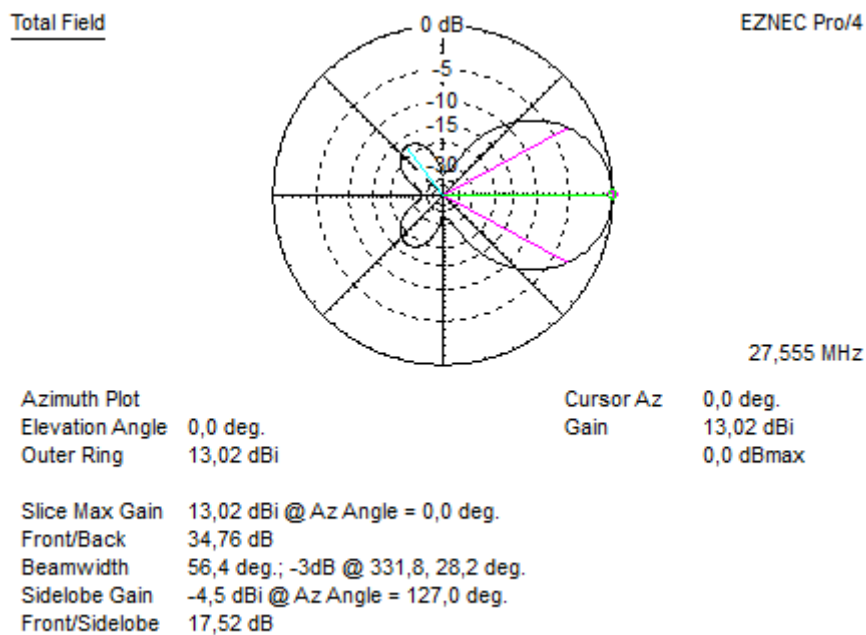
Cursor Elev 0,0 deg.
Gain 10,22 dBi
0,0 dBmax

Slice Max Gain 10,22 dBi @ Elev Angle = 0,0 deg.
Front/Back 23,36 dB
Beamwidth 63,4 deg.; -3dB @ 328,2, 31,6 deg.
Sidelobe Gain -4,55 dBi @ Elev Angle = 250,0 deg.
Front/Sidelobe 14,77 dB

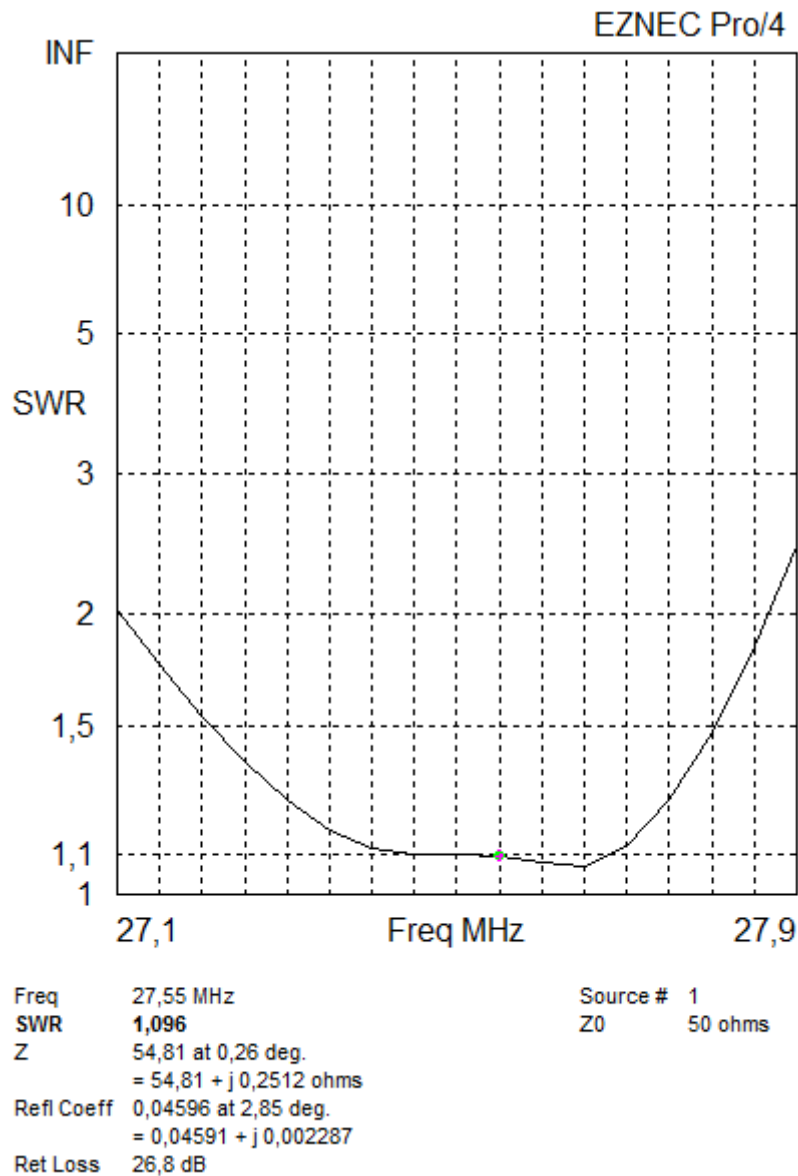
Below the elevation plot at 18 meters height above average ground.



Below the azimuth plot in free space of the “stack” (2x 4el quad 9,5 meter spacing)



Below the predicted SWR pattern of the single 4el quad.



ELEMENT DIAMETER:

The diameter of the wire is 3mm. The wire must be without isolation.

If you do use it with the isolation, all element lengths will be approximately 3-5 percent longer.

If you need other diameters, please mail.

ELEMENT DISTANCES:

Reflector- radiator = 1,715 M

Reflector-Director1=3,04 M

Reflector-Director2=5,46 M

ELEMENT LENGTHS:

Reflector= 2,893 (per side so x4 for total element length)

Radiator= 2,799

Director1=2,75

Director2=2,704

FEEDING THE ANTENNA:

The antenna has a 50 ohm impedance. It can be direct fed. (of course a 1:1 balun is advised)