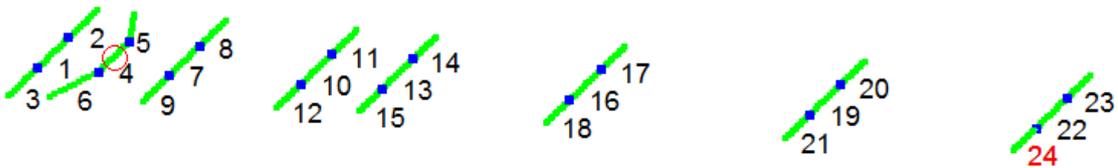


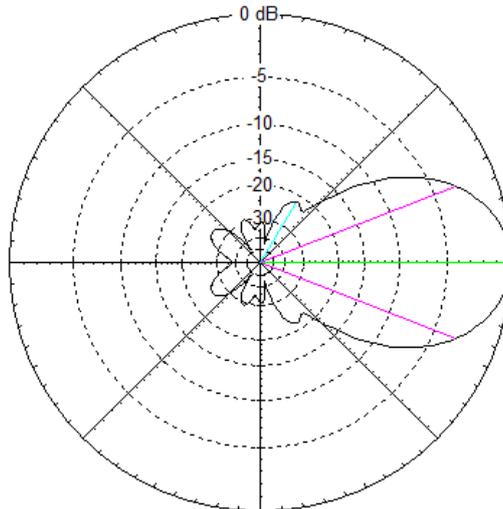
# 14,60 M 8el V-Yagi 12,60 dBI

For: CB channels 11 meter band  
Antenna Type: 8 elements V-Yagi  
Bend Radiator (K6STI/G4CQM)  
Designed by: HPSD version 1.01 feb 2014  
Boom length: 14,60 Meter  
Gain: 12,60 dBI (@27,555 MHz, Peak gain: 12,63 dBI @ 28MHz)  
FB <37 dB  
FR <25 dB  
Impedance: 50 ohms, direct fed  
SWR 1:1 900 KHz.  
SWR below 2:1 > 1550 KHz



Total Field

EZNEC Pro/4



27,555 MHz

Azimuth Plot  
Elevation Angle 0,0 deg.  
Outer Ring 12,6 dBi

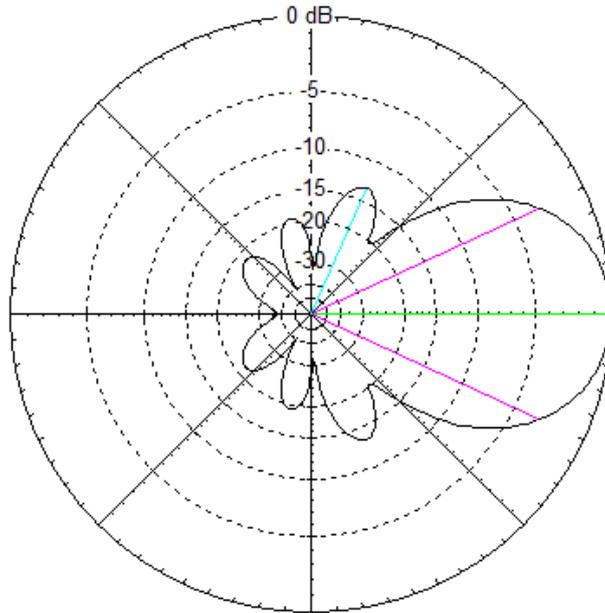
Cursor Az 0,0 deg.  
Gain 12,6 dBi  
0,0 dBmax

Slice Max Gain 12,6 dBi @ Az Angle = 0,0 deg.  
Front/Back 37,23 dB  
Beamwidth 42,8 deg.; -3dB @ 338,6, 21,4 deg.  
Sidelobe Gain -9,01 dBi @ Az Angle = 59,0 deg.  
Front/Sidelobe 21,61 dB

freespace azimuth plot

Total Field

EZNEC Pro/4



27,555 MHz

Elevation Plot  
Azimuth Angle 0,0 deg.  
Outer Ring 12,6 dBi

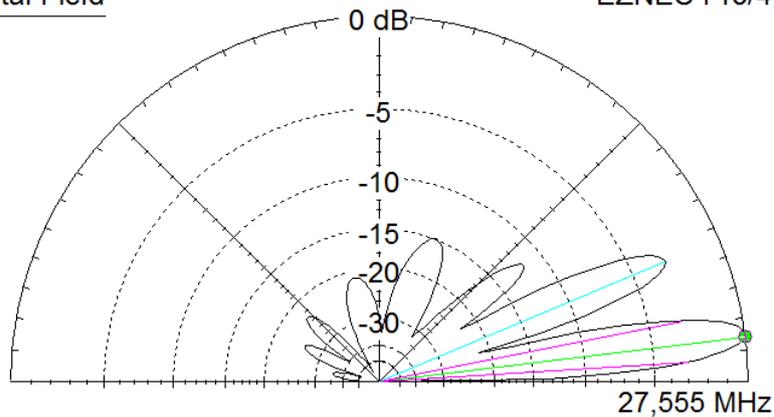
Cursor Elev 0,0 deg.  
Gain 12,6 dBi  
0,0 dBmax

Slice Max Gain 12,6 dBi @ Elev Angle = 0,0 deg.  
Front/Back 37,23 dB  
Beamwidth 50,0 deg.; -3dB @ 335,0, 25,0 deg.  
Sidelobe Gain -0,72 dBi @ Elev Angle = 66,0 deg.  
Front/Sidelobe 13,32 dB

Above free space elevation plot

Total Field

EZNEC Pro/4



27,555 MHz

Elevation Plot  
Azimuth Angle 0,0 deg.  
Outer Ring 18,01 dBi

Cursor Elev 7,0 deg.  
Gain 18,01 dBi  
0,0 dBmax

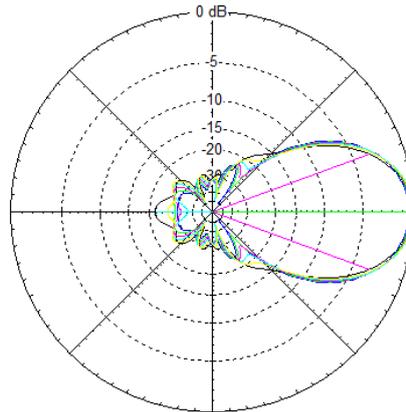
Slice Max Gain 18,01 dBi @ Elev Angle = 7,0 deg.  
Beamwidth 7,7 deg.; -3dB @ 3,7, 11,4 deg.  
Sidelobe Gain 15,08 dBi @ Elev Angle = 23,0 deg.  
Front/Sidelobe 2,93 dB

Above elevation plot with the antenna at 18 meters above average ground.

**Total Field**

27 MHz  
 27,2 MHz  
 27,4 MHz  
 27,6 MHz  
 27,8 MHz  
 \* 28 MHz

EZNEC Pro/4

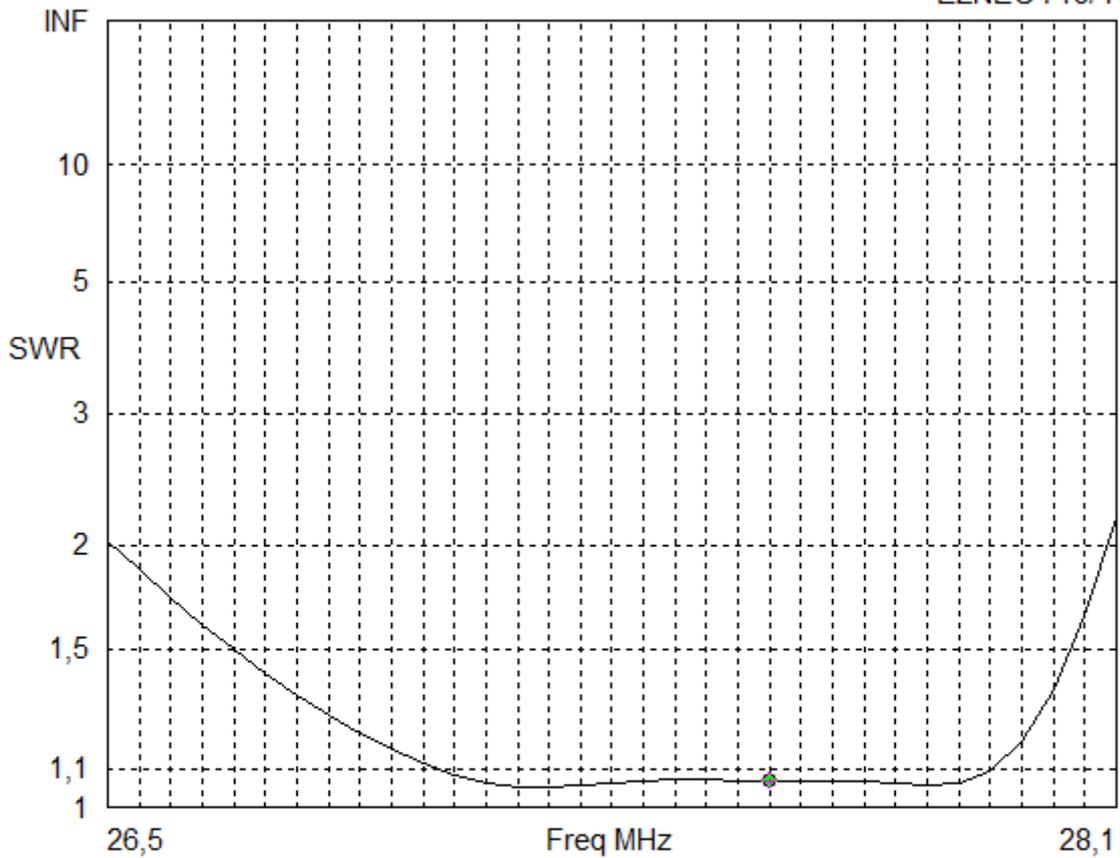


Azimuth Plot  
 Elevation Angle 0,0 deg.  
 Outer Ring 12,63 dBi

Cursor Az 0,0 deg.  
 Gain 12,47 dBi  
 0,0 dBmax

Slice Max Gain 12,47 dBi @ Az Angle = 0,0 deg.  
 Front/Back 21,44 dB  
 Beamwidth 40,6 deg.; -3dB @ 339,7, 20,3 deg.  
 Sidelobe Gain -8,97 dBi @ Az Angle = 180,0 deg.  
 Front/Sidelobe 21,44 dB

EZNEC Pro/4



Freq 27,55 MHz  
 SWR 1,069  
 Z 50,33 at -3,79 deg.  
 = 50,22 - j 3,331 ohms  
 Refl Coeff 0,03329 at -84,32 deg.  
 = 0,003296 - j 0,03313  
 Ret Loss 29,6 dB

Source # 1  
 Z0 50 ohms

Elements:

All elements are made out from “MACO” elements

DO NOT USE OTHER DIAMETERS !

Distance:	Element	Length:
0 M	Reflector	5,530 M
0,890 /0,540M	Radiator	5,240 M
1,920 M	Director 1	5,150 M
3,855 M	Director 2	4,966 M
5,040 M	Director 3	4,750 M
7,780 M	Director 4	4,940 M
11,290 M	Director 5	4,900 M
14,600 M	Director 6	4,740 M

With the radiator:

The bend starts there where the 1/2 inch tubing starts.