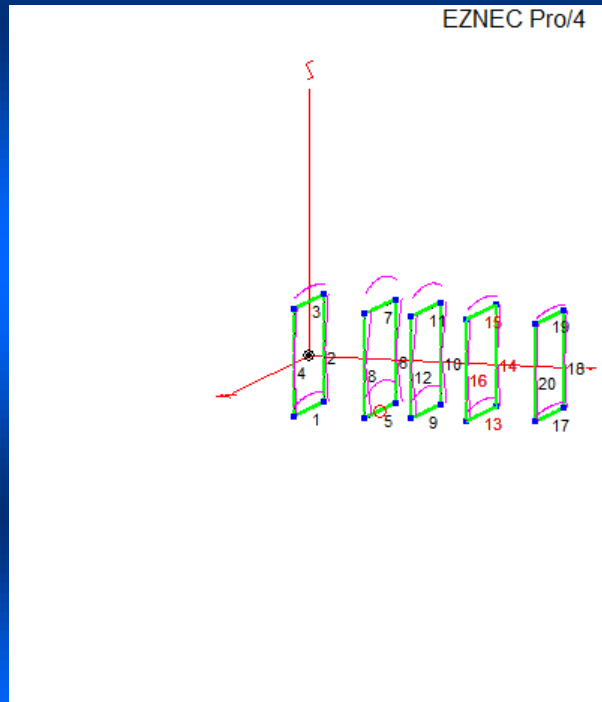
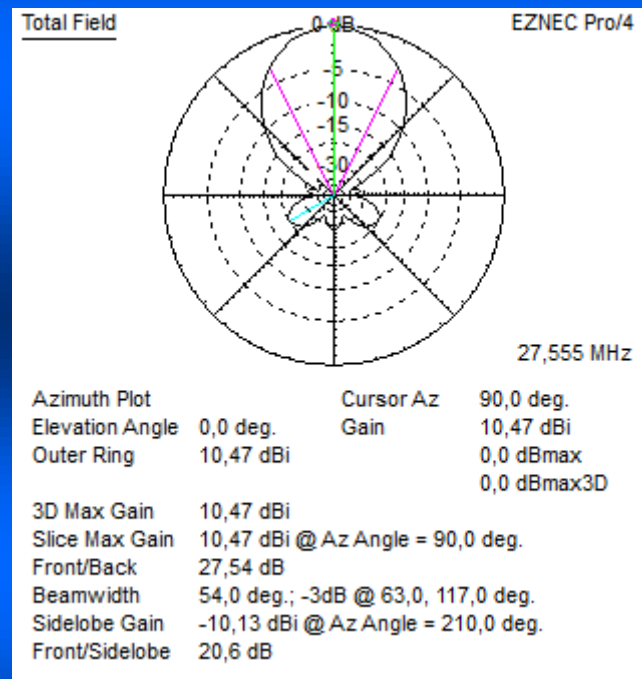


# 5el Cubical Quad Designed by: [www.hpsd.nl](http://www.hpsd.nl) 1.01 jan 2008

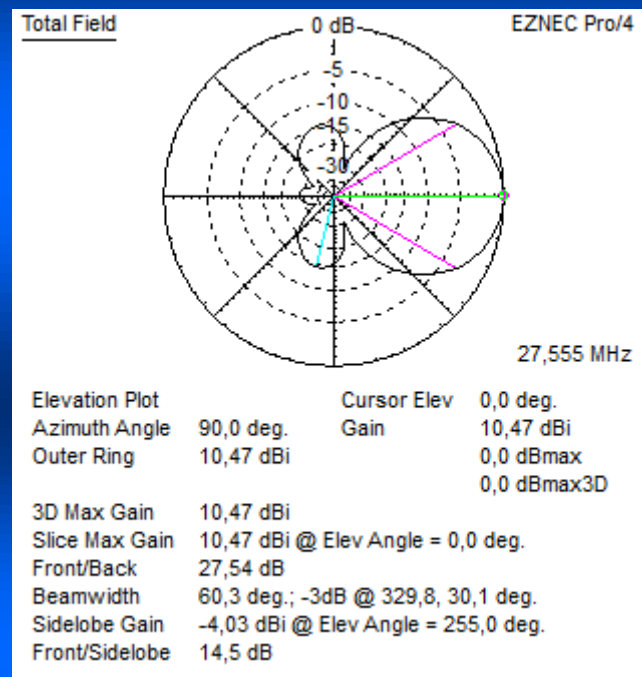
*For: Dx portion 11 meter band 3SD100*  
*Antenna Type: Cubical Quad*  
*Designed by: HPSD version 1.01 Jan 2008*



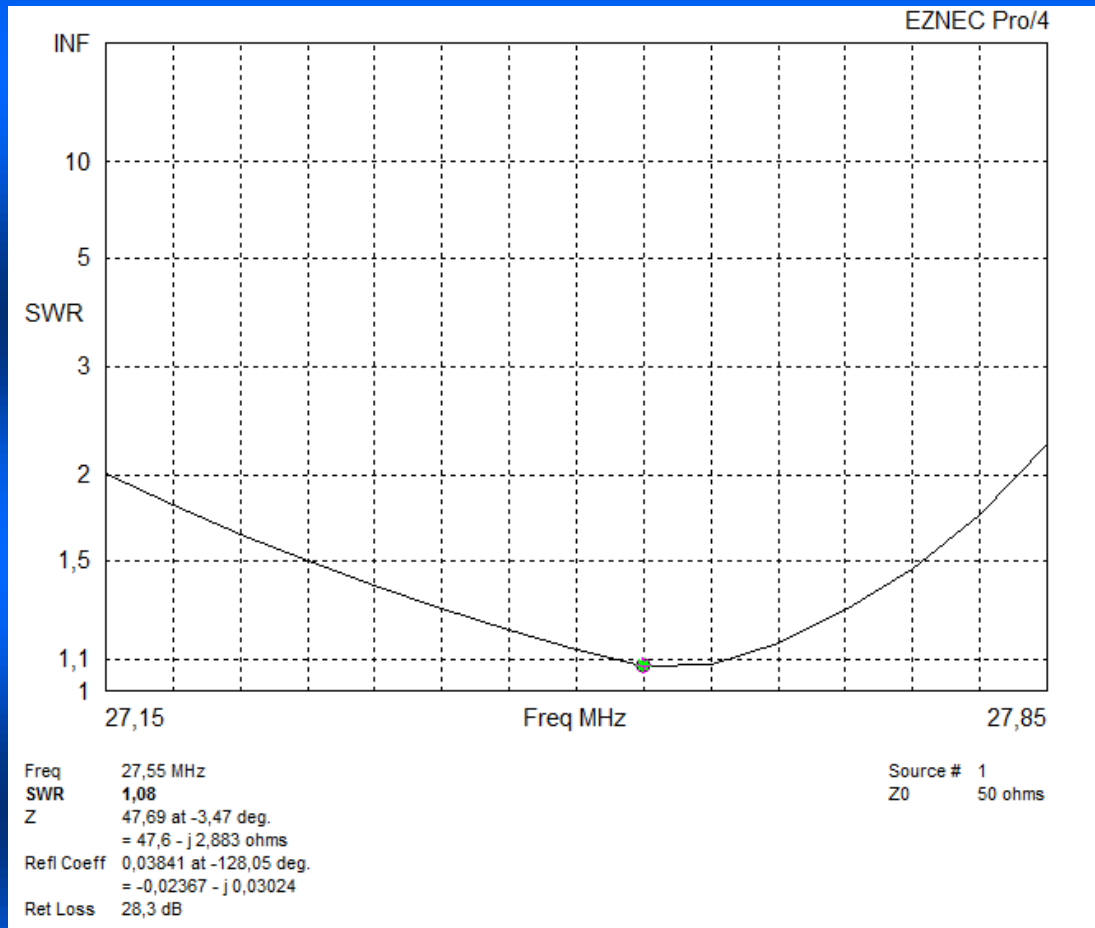
Boom length: 6,7 Meter  
Gain: 10,47 dBI (without material loss 10,72 dBI)  
Front to Back: < 20 dB  
Impedance: 50 ohms (split element) direct fed.  
SWR 1:1 : 100 Khz  
SWR below 2:1 : > 800 Khz



The Azimuth plot in freespace @ 27,555 Mhz. (including copper losses)



The Elevation plot in freespace @ 27,555 Mhz (including copper losses)



**ELEMENTS:**

All elements consist out of 12 AWG (2,05MM) BARE copper wire.  
**NO ISOLATION !**

*Feeding the antenna:*

The antenna is 50 ohms.  
 . The radiator Can be split in half and be “direct” fed.  
 With this said... a 1:1 balun or RF choke is advised.

Element	Distance to reflector	Side length (x4)
Reflector	0	2,894 M (x4)
Radiator	1,975 M	2,797 M (x4)
Director 1	3,25 M	2,748 M (x4)
Director 2	4,80 M	2,743 M (x4)
Director 3	6,70 M	2,626 M (x4)

If you need any futher information, please feel free to ask.

Kind regards,  
 Henry HPSD, 19SD348