

## IØJXX di Donzello Rosanna

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 $0 \, dB$ 

-5

-10

-15

-20

ah

Dipole in free space

1296 MHz

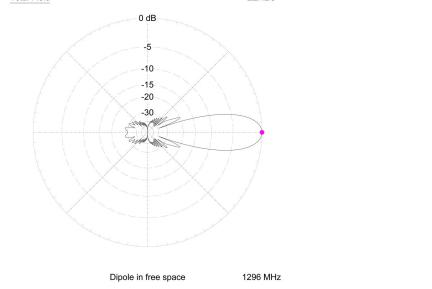
0,0 deg. 20,04 dBi 0,0 dBmax

Cursor Elev

Gain

## 36JXX23 Yagi

Item		Q.ty	Item		Q.ty
Stainless steel nut M5	0	1	Stainless steel bolt M5x20		11
Stainless steel nut M6	0	2	U_Bolt & Plate		1
Lock washer 5 mm Ø	0	1	Back Section boom 15 x 15 mm	145 cm.	1
Lock washer 6 mm Ø	Q	2	Front Section boom 15 x 15 mm	147 cm.	1
Flat washer 6 mm Ø	0	2	Support Section boom 15 x 15 mm	146.5 cm.	1
			Spacing 12 mm Ø	70 mm	5
Total Field	EZ	ZNEC+	Total Field		EZNEC+



0,0 deg. 20,04 dBi Outer Ring Slice Max Gain 20,04 dBi @ Az Angle = 0,0 deg Front/Back 30,09 dB 19,8 deg.; -3dB @ 350,1, 9,9 deg. Beamwidth Sidelobe Gain -0,17 dBi @ Az Angle = 24,0 deg. Front/Sidelobe 20,21 dB

Azimuth Plot

Elevation Angle

Cursor Az 0,0 deg. 20,04 dBi Gain 0,0 dBmax

Stacking

20,04 dBi @ Elev Angle = 0,0 deg. 30,09 dB Slice Max Gain Front/Back Beamwidth Sidelobe Gain Front/Sidelobe 19.3 dB

0,0 deg. 20,04 dBi

Elevation Plot

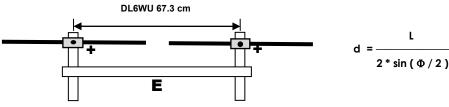
Azimuth Angle Outer Ring

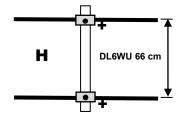
20,2 deg.; -3dB @ 349,9, 10,1 deg. 0,74 dBi @ Elev Angle = 24,0 deg.

In order to obtain the best results in coupling the antennas, we warmly recommend an adequate antenna stacking calculation which would allow the best forward gain together with low side lobes. The stacking distance may be calculated with the following formula from Güenter Hoch DL6WU

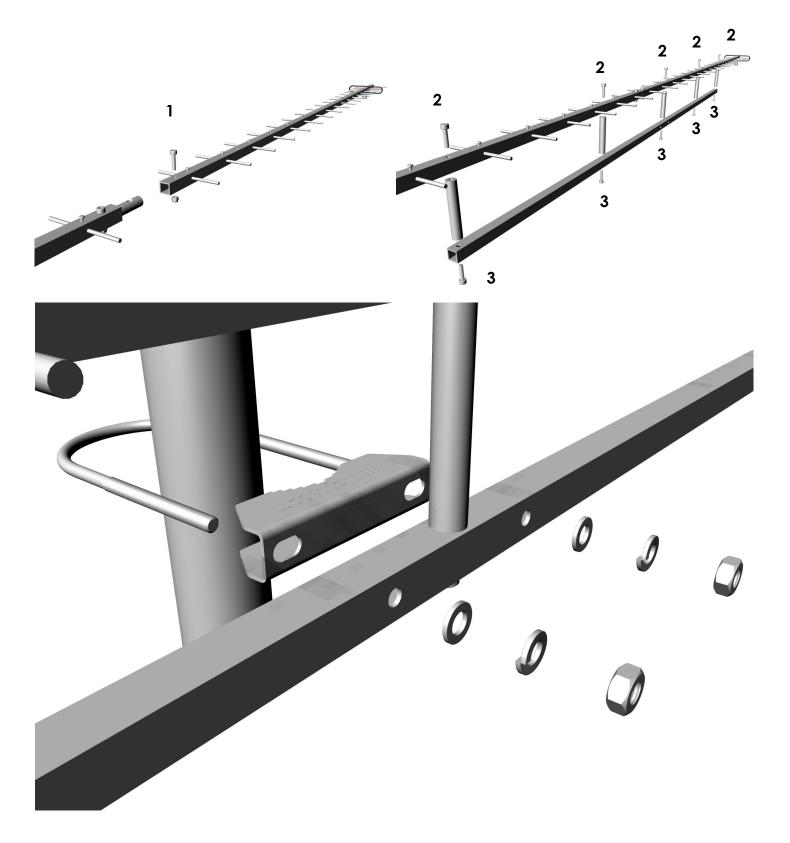
On the basis of further studies conducted by Lionel VE7BQH over the antenna stacking argument, a reduction of 5÷10% may be introduced on stacking distances without noticing significant overall worsening of the characteristics. Do respect the driven element supplying symmetry to allow anti-phase coupling

Plane E = 19.8° = 
$$\frac{231.46}{2*\sin(19.8/2)} = \frac{231.46}{0.3438} \cong 67.3 \text{ cm}$$
  
Plane H = 20.2° =  $\frac{231.46}{2*\sin(20.2/2)} = \frac{231.46}{0.3507} \cong 66 \text{ cm}$ 





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