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8JXX2 Yagi

Item		Q.ty	Item		Q.ty
Stainless steel nut M4	Q	6	Stainless steel bolt M4x35		7
Stainless steel nut M6	0	8	Dipole		1
Nylon nut M8		7	Ergal Plate PIA30JXX		1
Lock washer 4 mm Ø	0	7	Section boom A 25 mm Ø	147 cm.	1
Lock washer 6 mm Ø	0	8	Section boom A - B 30 mm Ø	147 cm.	1
Flat washer 6 mm Ø	0	8	Section boom B 25 mm Ø	147 cm.	1
Horizontal element 1÷8		1	Inbuss key 3 mm.		1

EZNEC+





Dipole in free space

144,4 MHz



Dipole in free space

144,4 MHz

Azimuth Plot		Cursor Az	0,0 deg.	Elevation Plot		Cursor Elev	0,0 deg.
Elevation Angle	0,0 deg.	Gain	14,28 dBi	Azimuth Angle	0,0 deg.	Gain	14,28 dBi
Outer Ring	14,28 dBi		0,0 dBmax	Outer Ring	14,28 dBi		0,0 dBmax
and the second second			0,0 dBmax3D	100 C 100 C			0,0 dBmax3D
3D Max Gain	14,28 dBi			3D Max Gain	14,28 dBi		
Slice Max Gain	14,28 dBi @ Az Angle = 0,0 deg.			Slice Max Gain	14,28 dBi @ Elev Angle = 0,0 deg.		
Front/Back	18,13 dB			Front/Back	18,13 dB		
Beamwidth	34,8 deg.; -3dB @ 342,6, 17,4 deg.			Beamwidth	38,2 deg.; -3dB @ 340,9, 19,1 deg.		
Sidelobe Gain	-3,79 dBi @ Az Angle = 49,0 deg.			Sidelobe Gain	1,01 dBi @ Elev Angle = 51,0 deg.		
Front/Sidelobe	18,07 dB			Front/Sidelobe	13,27 dB		

IØJXX may vary them without any warning Made in Italy www.iØjxx.com







Stacking

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

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 $\mathbf{E} = 34.8^{\circ} = \frac{2079}{2 * \sin (34.8 / 2)} = \frac{2079}{0.598} \cong \mathbf{3.48} \, \mathbf{m} \text{ (with VE7BQH from 3.3 m to 3.13 m)}$ Plane $\mathbf{H} = 38.2^{\circ} = \frac{2079}{2 * \sin (38.2 / 2)} = \frac{2079}{0.6544} \cong \mathbf{3.18} \, \mathbf{m} \text{ (with VE7BQH from 3.02 m to 2.86 m)}$

