

# 85MHz to 86MHz 5el Yagi



**Sales price £199.95**

Sales price without tax £166.63  
Tax amount £33.33

5el 85.5MHz LFA Yagi - Covers 85-86MHz

## Description

### A 5el LFA Yagi for 85-86MHz - centre frequency 85.5MHz

A low noise, high gain Yagi for both RX and TX. compact design on a 1.25" square boom and 1/2" round elements fully insulated from the boom

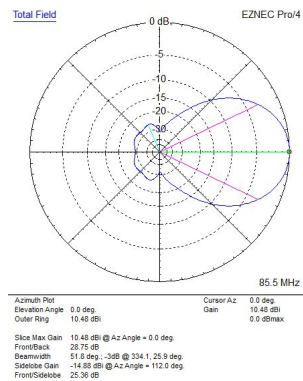
#### Performance single antenna:

Gain: 10.48dBi - free space  
Gain 10m above ground: 16.22dBi  
F/B: 28.75dB  
-3dB E-plane: 51.8 degrees  
-3dB H-plane: 66.8 degrees  
2 x Yagi stacked 3m apart: 19.05dBi  
Impedance: 50Ohm balanced  
SWR: 85.5MHz + - 500KHz better than 1.2:1

#### Stacking Distances:

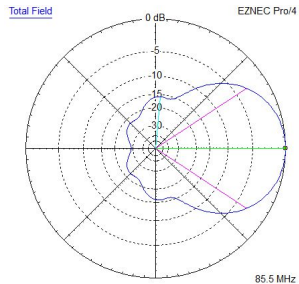
2 antennas: 3m vertically

#### The 5el 85.5MHz LFA Azimuth plot in free space



#### Elevation plot of the 5el LFA in free space:

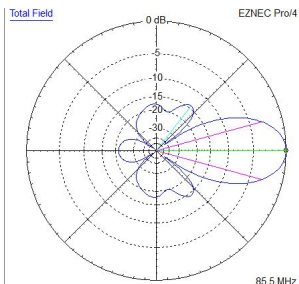
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EZNEC Pro/4  
85.5 MHz

Elevation Plot	Cursor Elev	0.0 deg
Azimuth Angle	Gain	10.48 dBi
Outer Ring		0.0 dBmax
Slice Max Gain	10.48 dBi @ Elev Angle = 0.0 deg	
Front/Back	20.75 dB	
Beamwidth	68.8 deg @ -3dB @ 326.6, 33.4 deg	
Sidelobe Gain	-2.25 dBi @ Elev Angle = 85.0 deg	
Front/Sidelobe	15.74 dB	

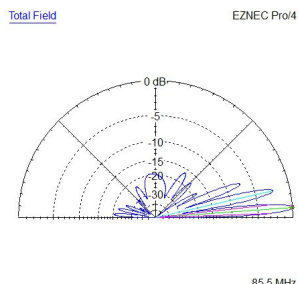
2 x 5el stacked 3m apart vertically, one above the other in free space:



EZNEC Pro/4  
85.5 MHz

Elevation Plot	Cursor Elev	0.0 deg
Azimuth Angle	Gain	13.46 dBi
Outer Ring		0.0 dBmax
Slice Max Gain	13.46 dBi @ Elev Angle = 0.0 deg	
Front/Back	21.22 dB	
Beamwidth	30.8 deg @ -3dB @ 344.6, 15.4 deg	
Sidelobe Gain	-0.74 dBi @ Elev Angle = 52.0 deg	
Front/Sidelobe	14.2 dB	

2 x 5el LFA stacked 3m apart and 10m above ground, showing ground-gain:



EZNEC Pro/4  
85.5 MHz

Elevation Plot	Cursor Elev	0.0 deg
Azimuth Angle	Gain	19.05 dBi
Outer Ring		0.0 dBmax
Slice Max Gain	19.05 dBi @ Elev Angle = 4.2 deg	
Beamwidth	4.3 deg @ -3dB @ 211.6, 4 deg	
Sidelobe Gain	-2.25 dBi @ Elev Angle = 12.8 deg	
Front/Sidelobe	2.25 dB	

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