



A super low-noise 50MHz LFA Yagi

Description

Available through WiMo Germany and DX Engineering in the USA - for Direct factory supply, Email us for pricing and time lines.

www.dxengineering.com - www.wimo.com

A 6 element very low-noise LFA2 Yagi designed for DK1MAX

The LFA2 has a Bent Reflector system designed to enhance SWR bandwidth and F/B.

The G0KSC LFA Yagi is a major step forward in the development of the Yagi Antenna; **it provides a low-noise front-end for your radio so you hear more weak signals.** This compact 6 element 50Mhz LFA provides stunning performance across the important section of the 6m band (50.00 - 50.400MHz). Hard to beat with a direct 50 Ohm feed-point and no matching losses and suppression of unwanted noise!!

This antenna has very highly suppressed lobes in both azimuth and elevation plots and therefore is ideal for very noisy city locations. If you want to beat the noise in a mid-sized 6m antenna, this is the one for you!



NO0T with his newly installed LFA-MAX



Installed at KL7HBK - *" Here's a picture of the 6el LFA at 45 feet. It seems to work very well"*

And later from John ..

"I see that you have used the picture that I sent of the 6 el LFA a few months ago. Well, after its first Es season with over 1000 QSOs in 21 countries (not counting several more via EME), I think you should change the comment "seems to work well" to something like "absolutely outstanding performance!"

73,

John KL7HBK" picture below



Performance

11.18dBi @ 50.150MHz

31.51dB @ 50.150MHz

50MHz Yagis (all): 6 element 50MHz LFA-MAX Yagi (5.8m)

Peak Gain: 11.22dBi

Peak F/B: 32.21dB

Power Rating: 5kw+

SWR: Below 1.2:1 from 50.00MHz to 50.500MHz

Stacking Distance: 4.5-5.4m (5m recommended)

2 Stacked Gain @ 5m spacing: 13.98dBi

2 Stacked F/B: 37.54dB

2 Stacked Gain @ 5m Spacing 15m above ground: 19.48dBi

Boom Length: 5.840m

Weight: 6.12Kg / 13.58LB

Turning Radius: 3.23m / 10.6ft

Wind Loading: 0.22 Square Metres / 2.0 Square feet

Wind Survival: 224KPH / 139MPH

Other options available if higher wind loading/survival is required.

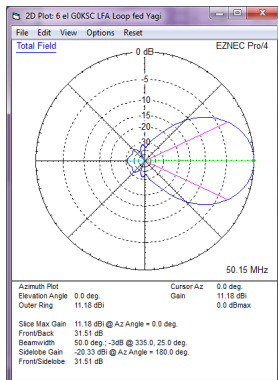
Specification

This antenna is made with tapered elements 16mm centres and 13mm outer sections. The antenna has fully insulated elements which will ensure continuous, high performance for many years to come. Boom to mast brackets are included with all antennas which will support 2 inch (50mm) masts. Boom is 40mm square with 2mm wall aluminum.

Our antennas are constructed with the best quality materials in order that the best mechanical construction can be achieved, not the cheapest and most profitable! Even a digital caliper is used (with an accuracy of .01mm) to measure the elements during production to ensure they are within 0.2mm of what they should be, ensuring they work as well as our software model predicts.

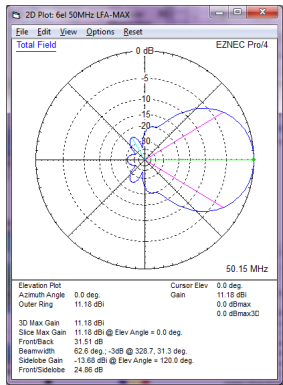
Note: Much development time has gone into our antennas, not just on basic electromagnetic design, we are able to model the effect of insulators, booms and other objects to ensure the make up of our antennas have least effect on performance and pattern degradation. More information can be found [here](#)

- Marine grade Stainless Steel Fittings
- Original Stauff Insulation clamps
- Mill finished boom and elements for highest levels of accuracy

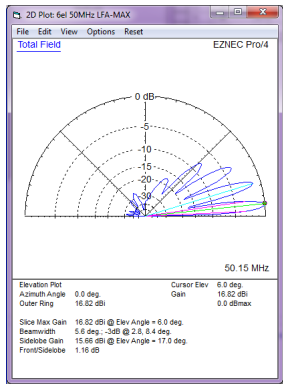


Azimuth Plot

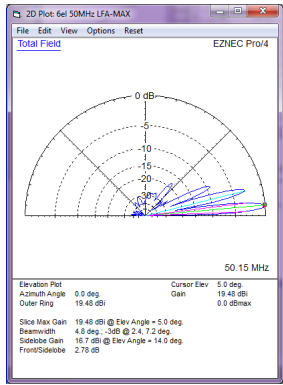
50MHz Yagis (all): 6 element 50MHz LFA-MAX Yagi (5.8m)



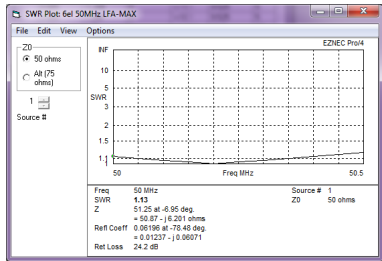
Elevation Plot



Single 6 element LFA up 15m above ground



2 x 6 el LFA Yagi 5m apart with the bottom antenna 15m above ground



SWR



Manufactured the right way, not the cheapest way!

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