

A 12 element low-noise 446MHz LFA Yagi - Low Noise 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 Super Low Noise Yagi for serious DX and EME applications

The G0KSC LFA (Loop fed Array) Yagi has quickly become 'the one to have' if you are looking for serious weak signal work on VHF and UHF bands. Unlike other companies and designers, G0KSC has dismissed the 'one size fits all' antenna modeling approach and does not model every antenna as if it were for the HF bands. Instead careful consideration is taken to ensure the performance parameters of each antenna fit well with the characteristics of the band in question. Sky and ground noise (temperature) play a role in an antennas ability to receive signals and the G0KSC LFA-LN (Low Noise) Yagi has been modelled for an excellent noise figure while maintaining good levels of gain, ensuring you can hear anyone that hears you, even if you are QRO and they are not!

Read more about the LFA Yagi [HERE](#).

The LFA is especially effective for EME where very low noise antennas are required and many hours development have been spent ensuring the highest levels of performance have been achieved in an antenna that is not affected by wet weather conditions. As a single, double and 4 stack (or more) system, the LFA Yagi is the one to have.

Our antennas are constructed with the best quality materials in order 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 0.1mm of what they should be, this is extremely important on 446MHz and measurements must be as accurate as possible if performance and temperature are to be maintained.

1. **Marine grade Stainless Steel Fittings***
2. **Original and best Stauff Insulator clamps**
3. **Mill machined for pin-point accuracy throughout**

If you are looking for the best of the best from both a performance and mechanical construction perspective then look no further, you have come to the right place!

A 10el 446MHz LFA before installation - 12el constructed same way and can be rear or centre mounted.

NOTE: With any Yagi, if you mount vertically it has to be rear mounted or mounted centrally on a non-metallic mast. Contact us for more information, we will help you get the best form your antenna and help you stack and phase if you wish to run with more than one.



Performance

Corrected Gain: 15.68dBi @ 446MHz

F/B: 30.38dB @ 446MHz

Peak Gain: 15.71dBi

Gain 10m above Ground: 21.57dBi

Peak F/B: 30.25dB

Power Rating: 3kw

SWR: Below 1.4:1 from 444.00MHz to 448.00MHz

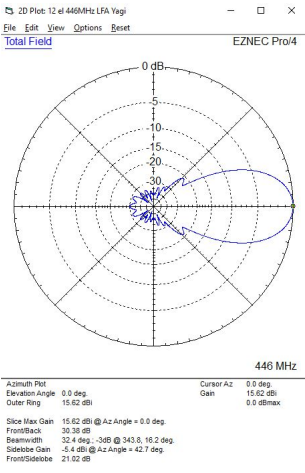
Boom Length: 2.1m

Stacking distance 2 antennas 1m apart - 18.35dBi

Specification

This antenna has all parasitic elements made from 1/4 inch aluminum rod with a driven loop 1/2" thick with 3/8" loop ends. Driven loop is grounded to the 3/4" square boom, all other elements are insulated but placed through the boom.

If you want an antenna to last and perform in all weathers without SWR or bandwidth shifting, this is it.



2 x 12el pattern stacked 1m apart

For multi-antenna array plots or more information, please contact us at [This email address is being protected from spambots. You need JavaScript enabled to view it.](#)

Manufactured the right way, not the cheapest way!

* Where possible marine grade stainless steel components are used.
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