quad for the 6m band 50Mhz high gain

Sales price £599.95

Sales price without tax £499.96
Tax amount £99.99

A low noise high gain 50MHz LFA-Q Directional Loop Array

Description

Prices 20% less for customers outside of EU

A 6 element Low Noise, High Gain Directional Loop array (LFA-Q)

The G0KSC LFA-Q possesses all of the design traits InnovAntennas have become well-known for. Direct 50 Ohm impedance (and hence no matching loss or pattern distortion). Minimal side lobes, High levels of Front to Back ratio (F/B) and Front to Rear ratio (F/R), and wide, flat bandwidth. However, the LFA-Q stands out for two more major benefits. High levels of forward gain and its' extremely rugged design which make it ideal for installation where harsh weather conditions are commonplace.

If you want the absolute best performance from minimal boom length and require performance that is available in any weather conditions or simply want something a little different, then the LFA-Q could be the one for you!

Demo video:

The 6el LFA-Q for 50MHz @ VE1PZ

Performance

Gain: 12.49dBi @ 50.150MHz

F/B: 23.59dB @ 50.150MHz

Peak Gain: 12.55dBi

quad for the 6m band 50Mhz high gain

Peak F/B: 26.7dB

Power Rating: 5kw+

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

Stacking Distance: 6.5-8m (7m recommended)

2 Stacked Gain @ 7m spacing: 15.38dBi

2 Stacked F/B: 24.12dB

2 Stacked Gain @ 7m Spacing 15m above ground: 21.08dBi

Boom Length: 6.730m

Weight: 13.5Kg / 29.7LB

Turning Radius: 3.599m / 11.8ft

Wind Loading: 0.52 Square Metres / 5.59 Square feet

Wind Survival: 225KPH / 140MPH

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

Customer comment on the LFA-Q:

"Very nice...assembled and installed over the last two days - even though it arrived over night!

Performs extremely well - It replaced a MET 144 8T (remember them) that was about 20 years old - the gamma match had become unstable - suspect the trombone dielectric has aged/decayed.

This antenna has great FB like the MET but I think gain is very comparable and bandwidth far, far superior.

Thanks for the great service

Martin VE7MM/G4EZG"

Specification

This antenna is made with tapered elements 1/2inch (12.7mm) centres and 3/8 inch (9.525mm) 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. The LFA-Q has a twin-boom system. Each section is **38.1mm square** with 1.6mm wall thickness. The booms are joined each end to one another by a second piece of the same material used for the boom. A UV protected Boom Guy system is also provided with stainless steel turnbuckles for easy adjustment.

The LFA-Q is also provided with 2 boom to mast brackets, one on each boom and both brackets comprise of 4 U bolts (2 square for the boom, 2 round for the supporting mast) which have been formed from marine grade stainless steel.

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**
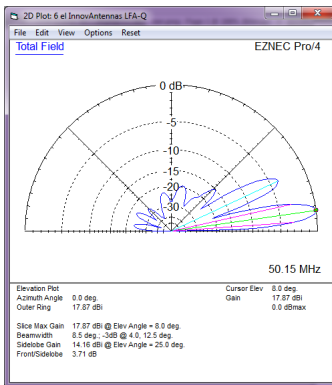- **Mill finished boom and elements for highest levels of accuracy**

quad for the 6m band 50Mhz high gain
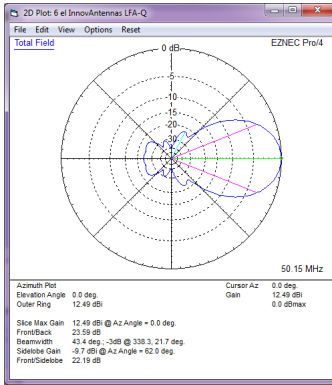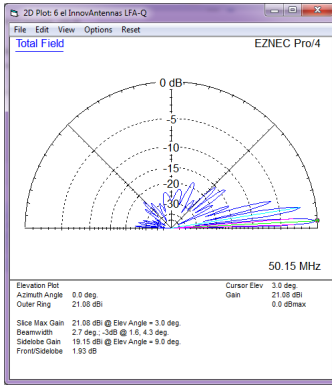

Azimuth Plot
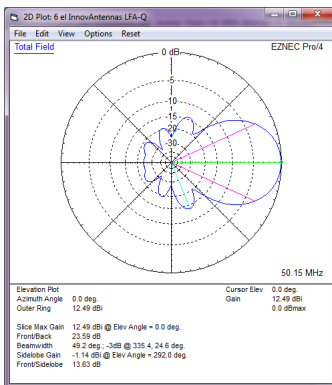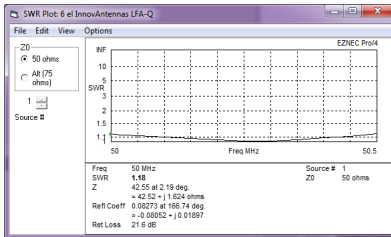

Elevation Plot
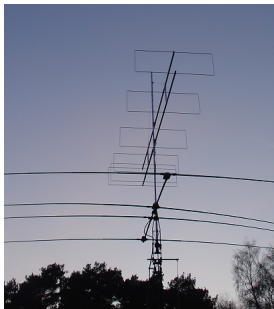

Single 6 element LFA up 10m above ground

quad for the 6m band 50Mhz high gain

2 x 6 el LFA Yagi 7m apart with the bottom antenna 15m above ground

SWR

A 6el 50Mhz LFA-Q at G3ZSS

Manufactured the right way, not the cheapest way!
// //