

70cm 27el G3JVL's QLY

By G8MNY

(New Jul 10)

(8 Bit ASCII graphics use code page 437 or 850, Terminal Font)

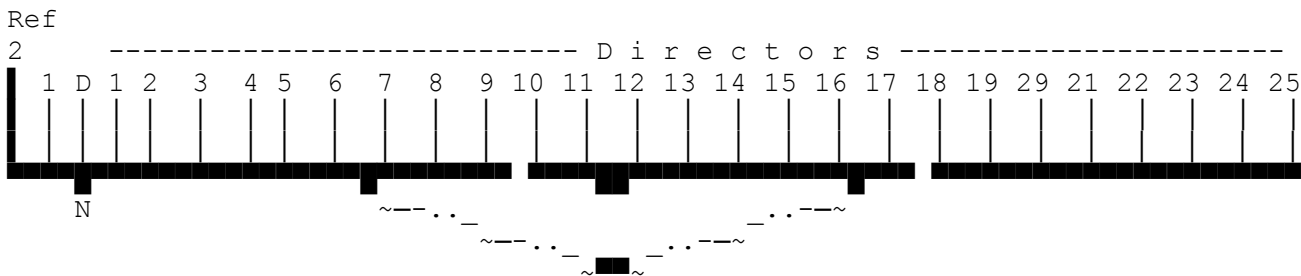
This is a large horizontally polarised beam with about 20dBd gain! The elements are all 1/8" plated steel loops welded to 2BA bolts to the 3 section 32mm dia ally tube boom.

The driven element is braised on to the round N socket (N Barrel?) & the is dropped onto a large hole in the boom & a screw fixes it somehow & the top all mastic sealed. There is no need for baluns on QLY as the fraction of a degree off the horizontal due to imbalance is no loss at all! SWR in mine is still a good 1:1 after many years!

The boom has three 1/8" thick strip tags weld to it, 1.5" tall & 2" wide for the 2 ends, with the middle one is 3" wide for a 2" U exhaust clamp.

Reflector 2 is large slotted ally plate (less wind loading) welded up from 39cm wide strips with vertical support strips to make a 36cm tall reflector & it has a welded on plug that fits the tube for mounting.

Support struts are 2x 1400x 20mm ally tube flattened & drilled at ends for the 2BA bolts to the welded on ally tags & central 2" U exhaust clamp. Needing 55cm of mast for the support struts.



I had measured my one in case I lost a bit. Here are the measurements, all elements taper down in size, so only some of the loop lengths were measured.

Element	From End mm	Loop Length mm	Element	From End mm	Loop Length mm
Reflector 2	0	390x360	Director 12	263	
Reflector 1	24	730	Director 13	290	
Loop Dipole	31	700	Director 14	317	
Director 1	40	630	Director 15	344	
Director 2	46		Director 16	371	
Director 3	59		Support Tab	383	
Director 4	73		Director 17	398	
Director 5	82		2nd Joint	408	
Director 6	100		Director 18	425	615
Support Tab	117		Director 19	452	
Director 7	127	625	Director 20	479	
Director 8	154		Director 21	506	
Director 9	181		Director 22	533	
1st Joint	195		Director 23	560	
Director 10	208		Director 24	588	
Director 11	235	620	Director 25	615	585
Centre mount	250		End of boom	617	

Why Don't U send an interesting bul?  
73 De John, G8MNY @ GB7CIP