

## Y409-3545

### Dual dipole broadband square boom Yagi TE.T.RA / L.M.R. / C.B.R.S. / UHF 350-450MHz



The Y409-3049 9 element UHF Yagi's feature a dual dipole design to produce a genuine broadband coverage whilst maintaining good performance and high gain. Suitable for directional UHF or TETRA applications.

Stacking in an array formation utilising a power divider or phasing harness will increase gain and increase signal directivity.

Mounting hardware, coaxial feeder cable, bird-proofing and other installation accessories are all available separately.

Construction	Fully welded corrosion resistant aluminium boom, aluminium dual dipole and external cable, or add -SS for full 304 stainless steel model	
Frequency range	TE.T.RA / L.M.R. / C.B.R.S. / UHF 380-450MHz	
Bandwidth	Full selected frequency range stated	
Tuning	Factory	
VSWR	<1.5:1	
Gain - nominal	11.5dBd	
Polarisation	Mount horizontal or vertical as required	
Maximum power	250 Watts	
Impedance	50 Ohms	
DC grounding	Yes	
H Plane each plane	88°	
E Plane each plane	55°	
Connector	N-type female fitted to external 250mm RG58	
Boom length	1.711 metres	
Widest element	440mm	
Weight	Aluminium	1.5kg
	Stainless steel	3.5kg
Projected area	0.08m <sup>2</sup>	
Wind load at 160kph	9.65kg, 0.095kN	
Mounting hardware order separate	1 x A48 or A48-65 for aluminium boom or 1 x S48 or S48-76 for stainless steel boom	
Optional additions request/order separate	Stainless steel bird-proof braid fitted over external coaxial cable	



Dual dipole design for true wideband capability



External cable fitted with stainless steel bird-proof braid, request and ordered separate.



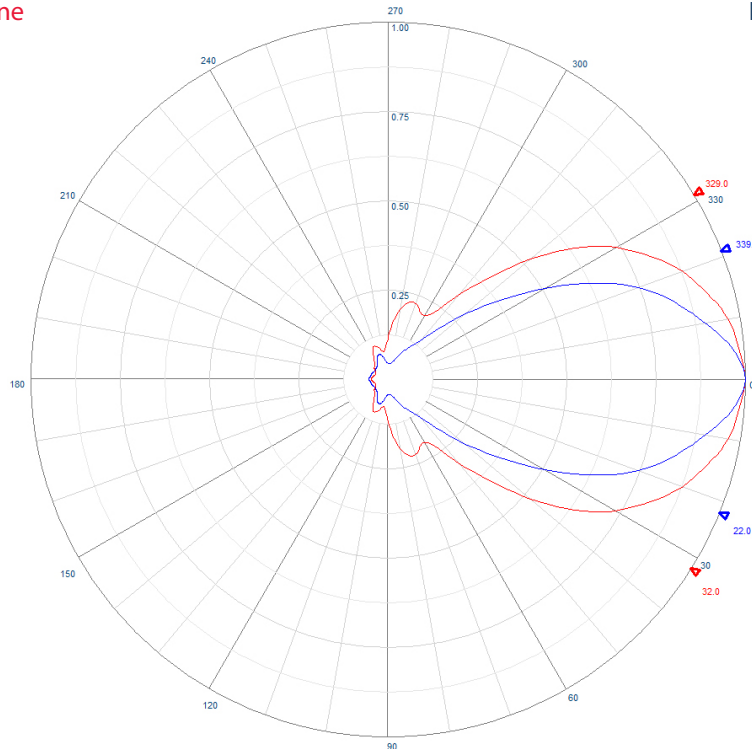
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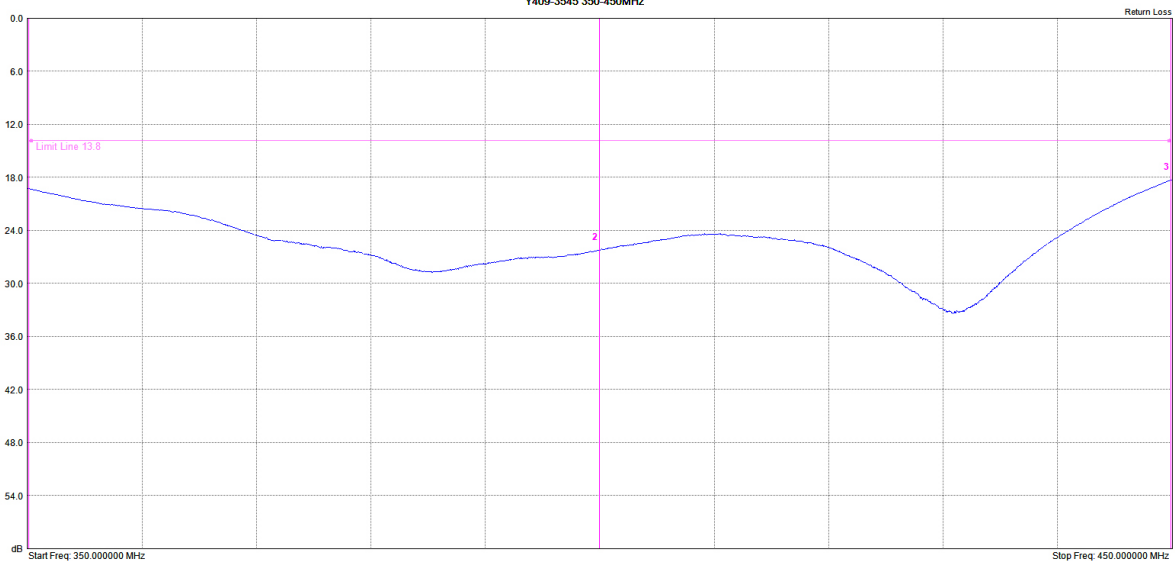
H Plane

E Plane



Example radiation pattern

Typical Return Loss  
Y409-3545 350-450MHz



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	350.045 MHz	19.27 dB	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	400.000 MHz	26.21 dB	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	449.955 MHz	18.26 dB	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical Return Loss