

Y409-3545

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

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	Welded corrosion resistant aluminium boom, aluminium dual dipole and external cable, or add -SS for full 304 stainless steel model	
Frequency range	380-450 MHz - UHF	
Bandwidth	Full selected frequency range stated - 70 MHz	
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	88°	
E 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 ²	
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.



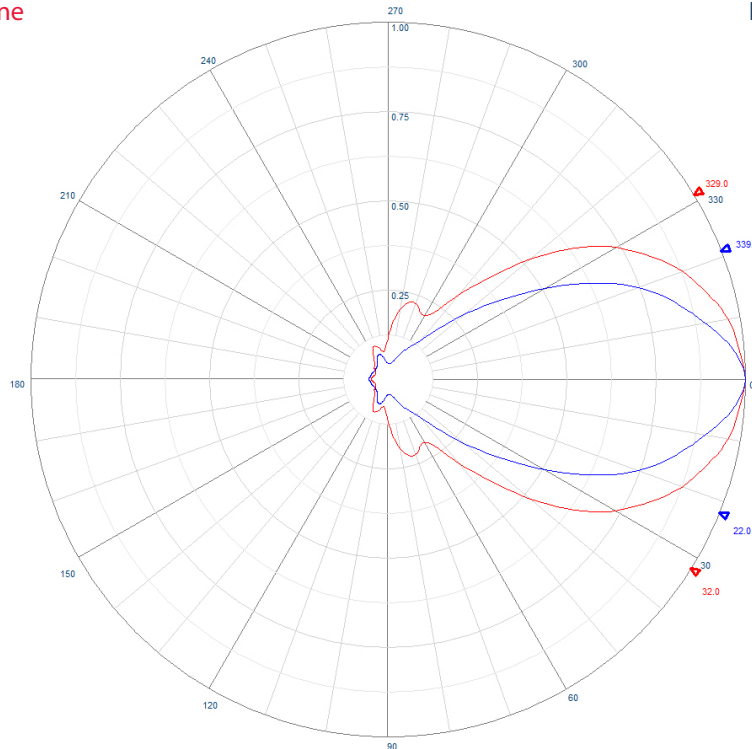
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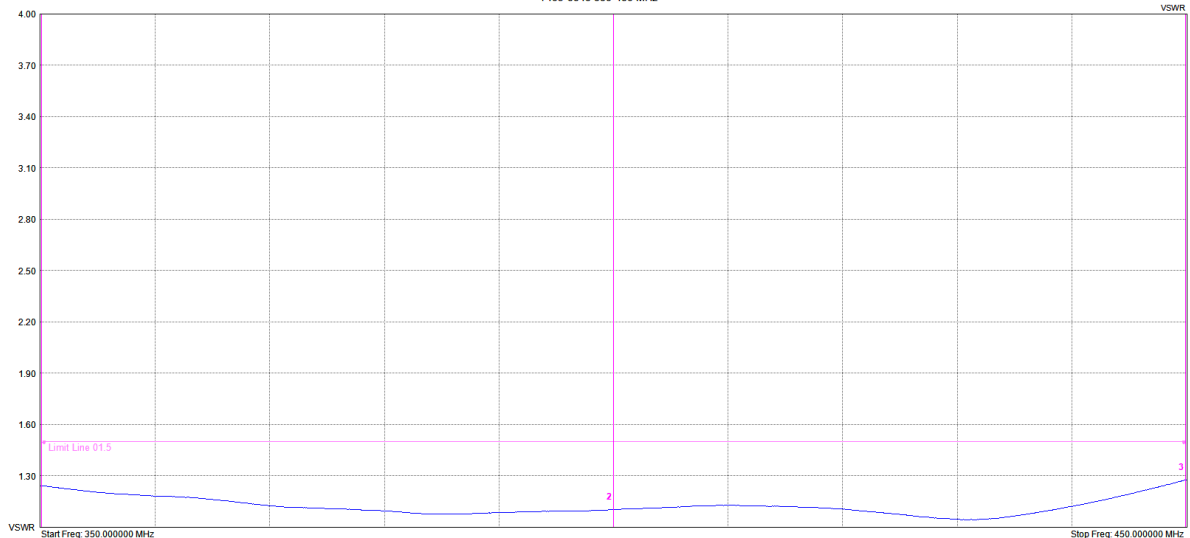
H Plane

E Plane



Example radiation pattern

Typical VSWR
Y409-3545 350-450 MHz



Mir	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	350.045 MHz	1.24VSWR	--	--
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	400.000 MHz	1.10VSWR	--	--
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	449.955 MHz	1.28VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR






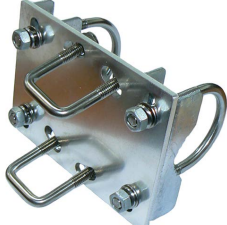



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Suitable mounting hardware

 <p>A48 galvanised steel Right-angle for 25mm RHS 30-50mm mount pole</p>	 <p>S48 - stainless steel Right-angle for 25mm RHS 30-50mm mount pole</p>
 <p>A48-65 galvanised steel Right-angle for 25mm RHS 50-65mm mount pole</p>	 <p>S48-76 - stainless steel Right-angle for 25mm RHS 60-75mm mount pole</p>
 <p>S48-90 - stainless steel Right-angle for 25mm RHS 70-90mm mount pole</p>	 <p>A48-tilt galvanised steel Right-angle for 25mm RHS 30-50mm mount pole with 14 deg tilt allowance</p>
 <p>S48-tilt stainless steel Right-angle for 25mm RHS 30-50mm mount pole with 15 deg tilt allowance</p>	

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (* times microwave) P/N 7890 Available in 100m ,300m or 500m rolls or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226 Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250 Available in per metre, or 500m rolls or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250 Tri-metal plated</p>