



Broadband UHF Yagi

Dual dipole broadband square boom Yagi

TE.T.RA / L.M.R. / C.B.R.S. / UHF 400-520MHz

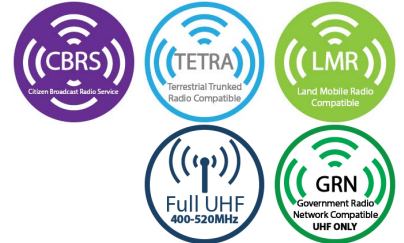


These 9 element UHF Yagi's feature a dual dipole design to produce a genuine broadband coverage whilst maintaining good performance and high gain. Suitable for directional UHF or TETRA applications.

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.

	Y406-4052	Y409-4052
Construction	Fully welded corrosion resistant element aluminium boom, aluminium dual dipole and external cable. 304 stainless steel model only in Y409 configuration	
Frequency range	TE.T.RA/ L.M.R. / C.B.R.S. / UHF 450-520MHz	TE.T.RA/ L.M.R. / C.B.R.S. / UHF 400-520MHz
Bandwidth	Full selected frequency range stated	
Tuning	Factory	
VSWR	<1.5:1	
Gain - nominal	9dBd	11.5dBd
Polarisation	Mount horizontal or vertical as required	
Maximum power	250 Watts	
Impedance	50 Ohms	
DC grounding	Yes	
H Plane each plane	82°	88°
E Plane each plane	75°	55°
Connector	N-type female fitted to external 250mm RG58	
Boom length	1.2 metres	1.475 metres
Widest element	370mm	
Weight	Aluminium Stainless steel	1.05kg - 1.2kg 2.8kg
Projected area	m ²	0.07m ²
Wind load at 160kph	kg, kN	7.0kg, 0.074kN
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.



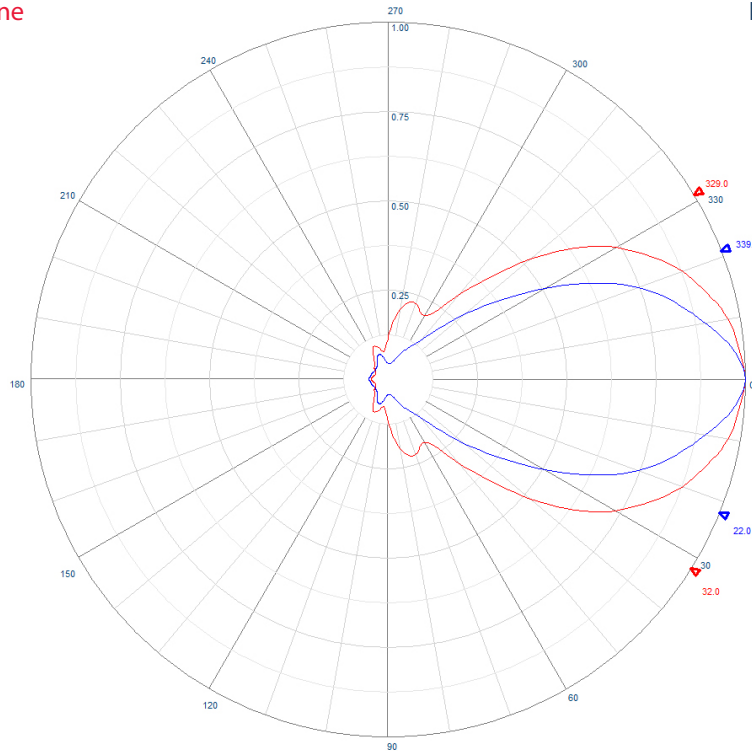
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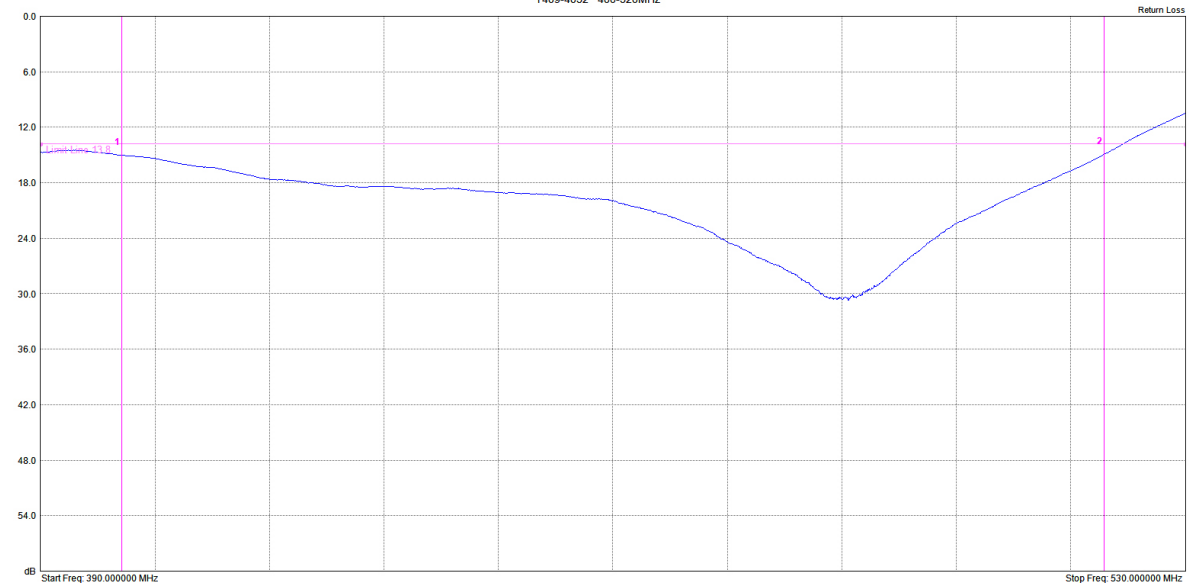
H Plane

E Plane



Example radiation pattern - Y409-4052

Typical Return Loss
Y409-4052 400-520MHz



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	398.914 MHz	15.04 dB	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	520.086 MHz	14.95 dB	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical Return Loss - Y409-4052




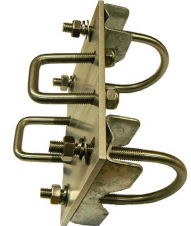



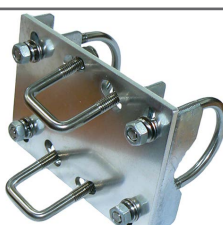



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Suitable mounting hardware

	<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

	<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>