



Y200CP series

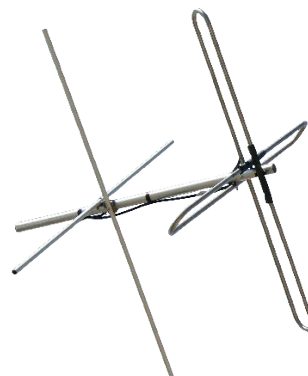
Directional RH circular polarised Yagi Antenna FM Radio 87.5-108 MHz



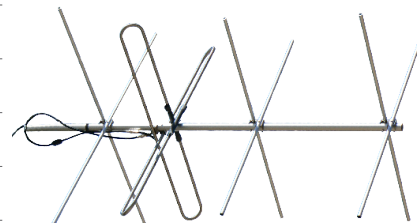
The Y200CP cross polarised Yagi series are specifically designed and manufactured for FM radio transmit and receive. Cross polarised signals eliminate multipathing due to unwanted reflections and refractions, and penetrate more obscure areas in comparison to a single plane antenna.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

	Y202CP	Y204CP	Y206CP	
Construction	Anodised aluminium boom, elements, aluminium folded dipole and external phasing harness, or add -SS for 304 grade stainless steel			
Frequency range	87.5-108 MHz - FM Radio			
Bandwidth	Specify any 4% when ordering			
Tuning	Factory			
VSWR	<1.2:1 across specified bandwidth			
Cross elements - per plane	2	4	6	
Gain - nominal	3 dBd per plane	6 dBd per plane	9 dBd per plane	
Polarisation	Circular elliptical - R.H.C.P as standard, can be requested L.H.C.P			
Maximum power	250 Watts			
Impedance	50 Ohms			
DC grounding	Yes			
H Plane - each plane	135°	62°	50°	
E Plane - each plane	70°	54°	46°	
Connector	N-type female input on phasing harness - supplied			
Max. boom @ 87.5MHz (L x W)	1.52m x 1.8m	2.74m x 1.8m	3.63m x 1.8m	
Weight	Aluminium	5.5kg	8.2kg	10.0kg
	Stainless steel	7.2kg	10.8kg	13.2kg
Projected area	0.166m ²	0.266m ²	0.365m ²	
Wind load at 160kph	0.197kN ; 20.105kg	0.316kN ; 32.259kg	0.434kN ; 44.249kg	
Strut kit - recommended	YS1-23 - single tension or YS2-23 - dual tension for high wind locations			
Mounting hardware order separate	Aluminium: 1 x Y2300 + suitable strut support (see above) Stainless steel: 1 x Y2300-SS + suitable strut support (see above)			
Installation tools required	10mm spanner for elements & dipole securing			



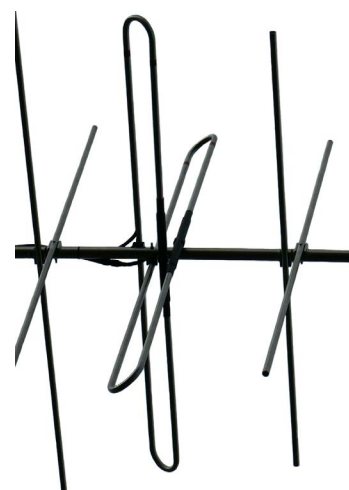
Y202CP / Y202CPSS



Y204CP / Y204CPSS



Y206CP / Y206CPSS



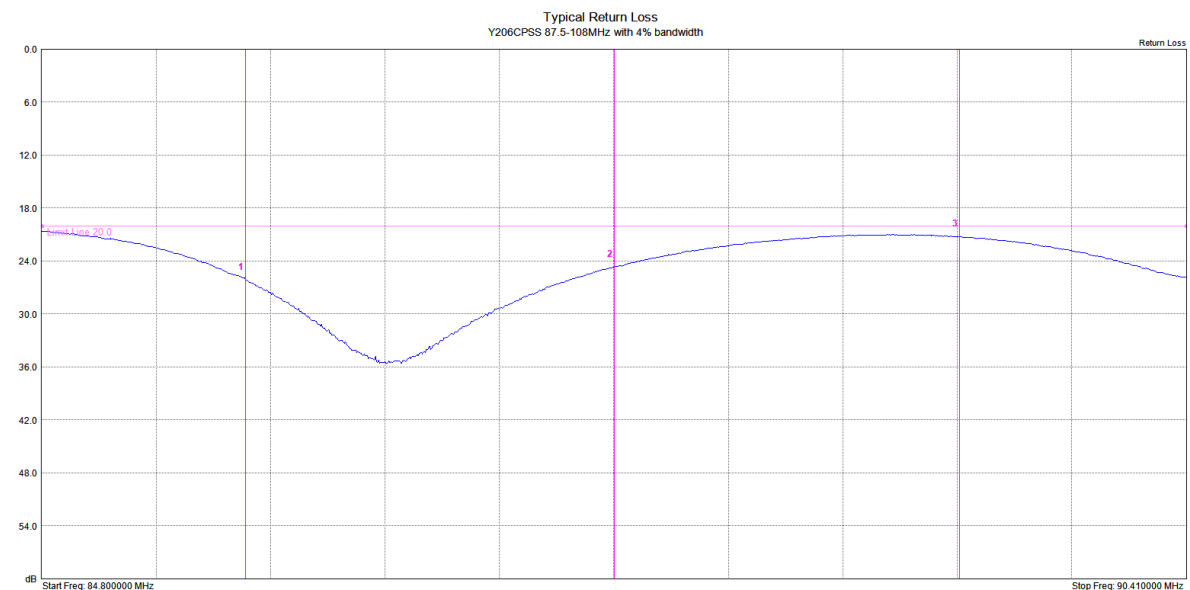
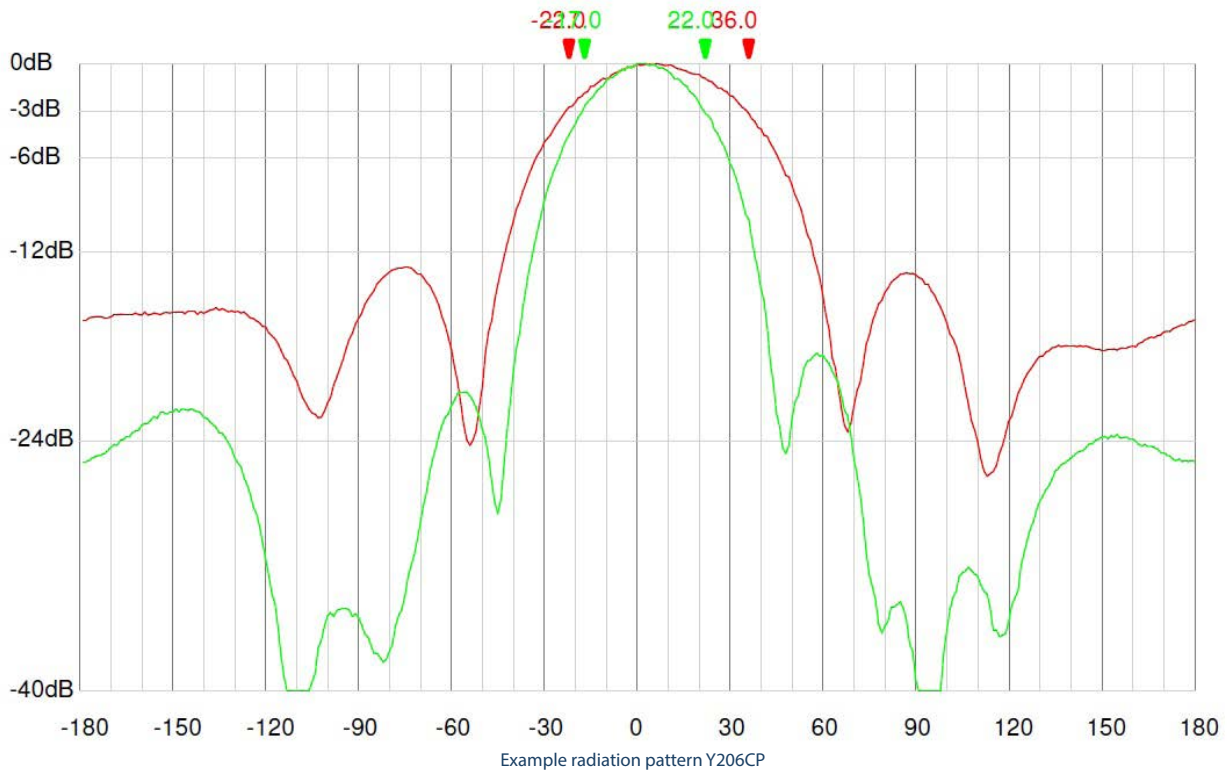
True circular elliptical configuration



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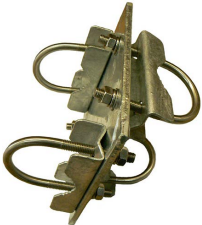
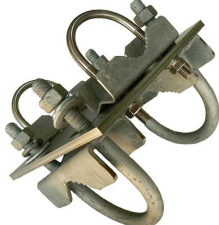


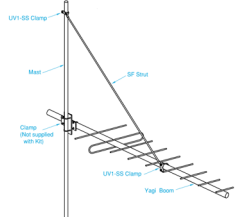
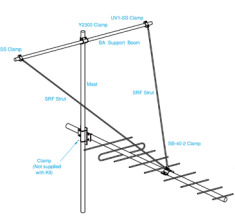
Mix	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	85.799 MHz	26.11 dB	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	87.608 MHz	24.65 dB	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	89.299 MHz	21.24 dB	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical Return Loss - Y206CPSS


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Suitable mounting hardware

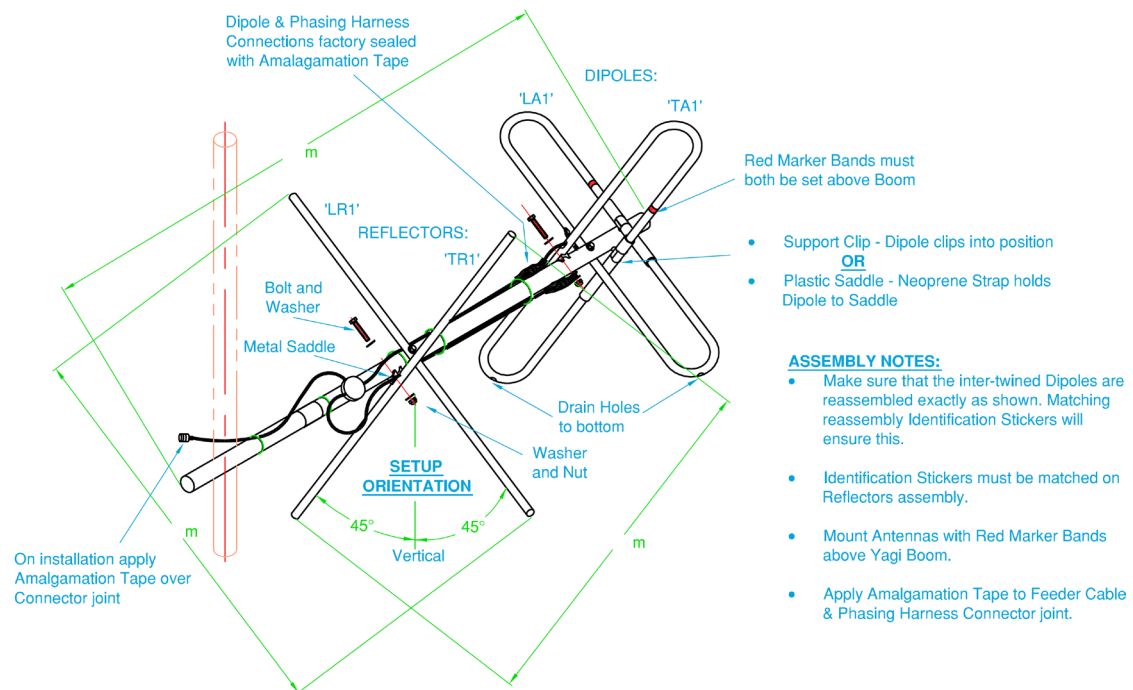
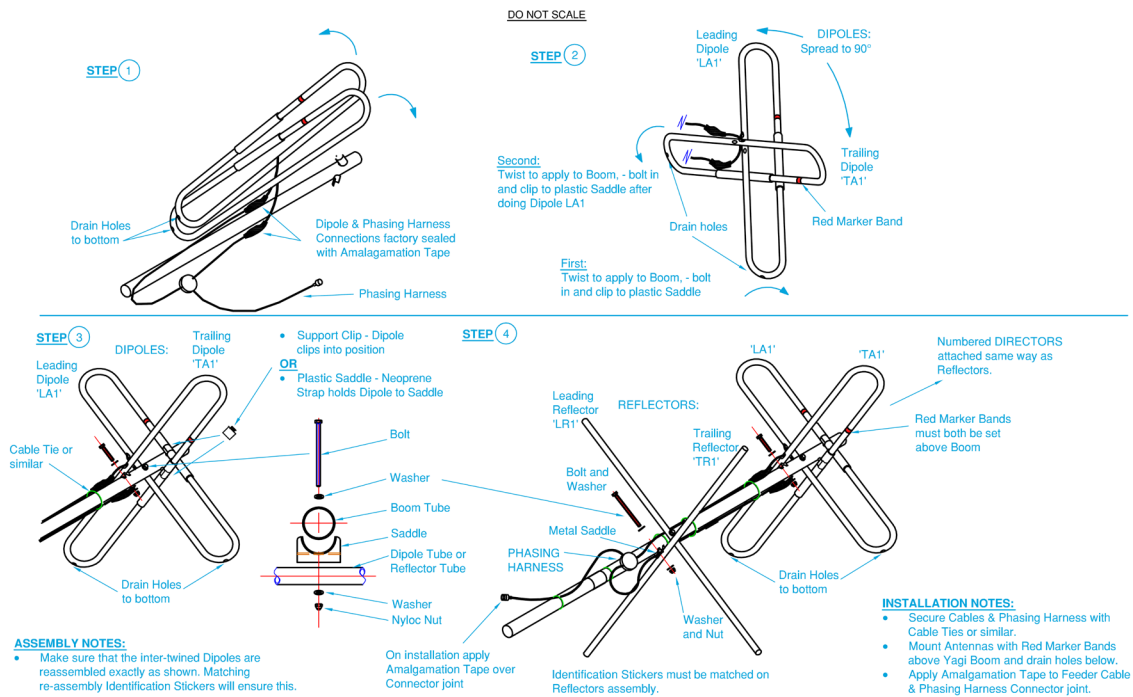
 <p>SKU: Y2300 Galvanised steel right-angle round boom Yagi clamp Boom: 30-50mm capability Mount pole: 30-50mm capability Also available in stainless steel</p>	 <p>SKU: Y2300-L Galvanised steel large right-angle round boom Yagi clamp Boom: 32-50mm capability Mount pole: 40-75mm capability Also available in stainless steel</p>
 <p>SKU: Y2300-XL Galvanised steel extra large right-angle round boom Yagi clamp Boom: 32-50mm capability Mount pole: 50-90mm capability Also available in stainless steel</p>	 <p>SKU: C-125 Galvanised steel extra large right-angle round boom Yagi clamp Boom: 32-50mm capability Mount pole: 100-125mm capability</p>
 <p>SKU: YS1-23 Single tension strut/support assembly includes strut-to-antenna and strut-to-mount pole brackets.</p>	 <p>SKU: YS2-23 Dual tension strut/support assembly includes struts-to-antenna, struts-to-mount pole brackets and support boom. Suits high wind locations.</p>

Suitable feeder coaxial cable and connectors

 <p>RU600 low loss, solid core, foam dielectric coaxial cable SKU: 7890-3 Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable SKU: 8226-3 Tri-metal plated - Low P.I.M.</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable SKU: ZCG1250 Air dielectric. SKU: ZCG1250-A Helical super flex. SKU: ZCG1250SF 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 SKU: NM1250 Tri-metal plated - Low P.I.M.</p>
 <p>7/8" corrugated shielding, foam dielectric coaxial cable SKU: ZCG7850 Air dielectric. SKU: ZCG7850-A Available in per metre or 500m rolls or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 7/8" flexible, corrugated shielded, coaxial cable SKU: NM7850 Tri-metal plated - Low P.I.M.</p>

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Assembly Sketch



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