



Y200CP-HP series

High powered FM Radio circular polarised Yagi

FM Radio 87.5-108 MHz



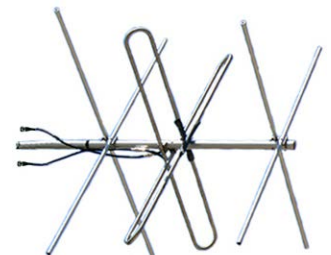
These Y200CPSS-HP cross polarised high powered Yagi series are specifically designed and manufactured for FM radio transmit and receive. Cross polarised signals eliminate multipathing due to unwanted reflections and refractions, and penetrate more obscure areas in comparison to a single plane Yagi.

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

	Y202CPSS-HP	Y204CPSS-HP	Y206CPSS-HP
Construction	304 stainless steel boom, dipole, elements, external cables and 2-way power divider		
Frequency range	87.5-108 MHz - FM Radio Broadcast		
Bandwidth	Specify centre frequency and 4% when ordering		
Tuning	Factory		
VSWR	<1.2:1 across specified bandwidth		
Cross elements	2	4	6
Gain - nominal	3 dBd per plane	7.5 dBd per plane	9 dBd per plane
Polarisation	Right-hand circular elliptical - R.H.C.P		
Maximum power	2 Kilowatts		
Impedance	50 Ohms		
DC grounding	Yes		
H Plane, each plane	135°	62°	50°
E Plane, each plane	70°	54°	46°
Connector	7/16" DIN female on power divider - supplied		
Boom dimensions	1.9m x 38.1mmØ	3.7m x 38.1mmØ	5m x 38.1mmØ
Weight	7.6kg	11.1kg	13.6kg
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 order separate	YS1-23 - single tension or YS2-23 - dual tension		
Mounting hardware order separate	Stainless steel: 1 x Y2300-SS		
Installation tools required	10mm spanners for elements + dipoles securing amalgamation butyl rubber + PVC tape for waterproofing terminations		
Warranty	2 Years		



Y202CPSS-HP



Y204CPSS-HP



Y204CPSS-HP



Y206CPSS-HP



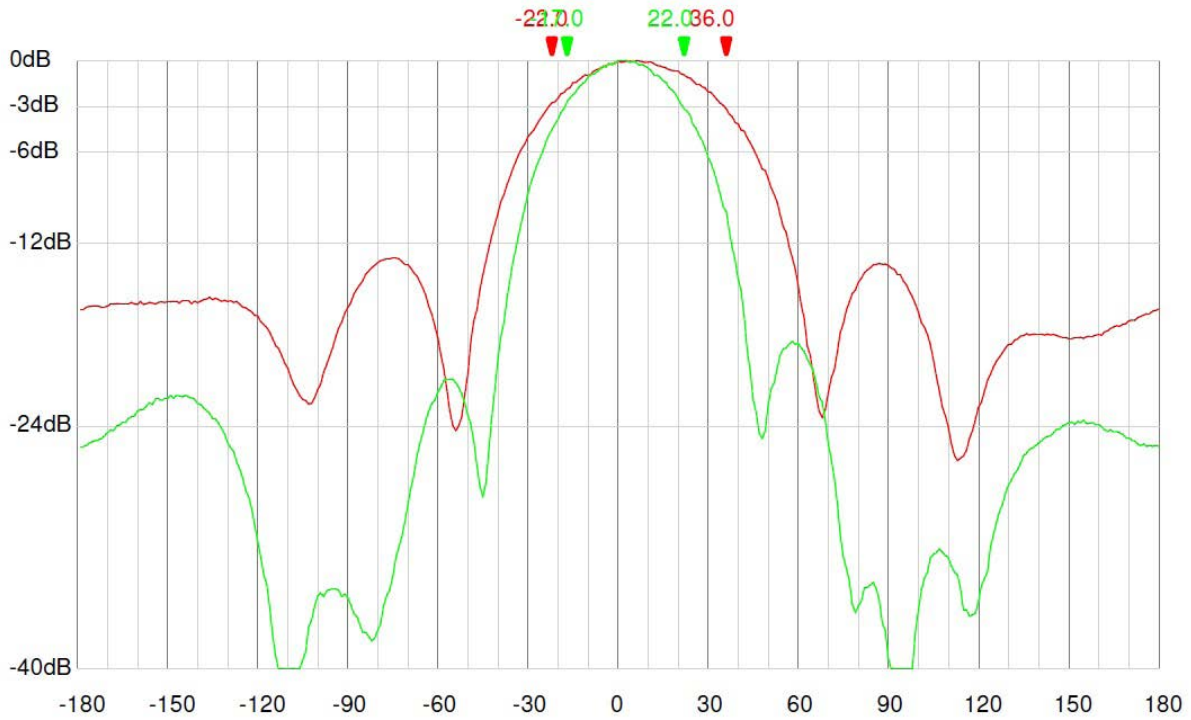
7/16" DIN female input to supplied power divider



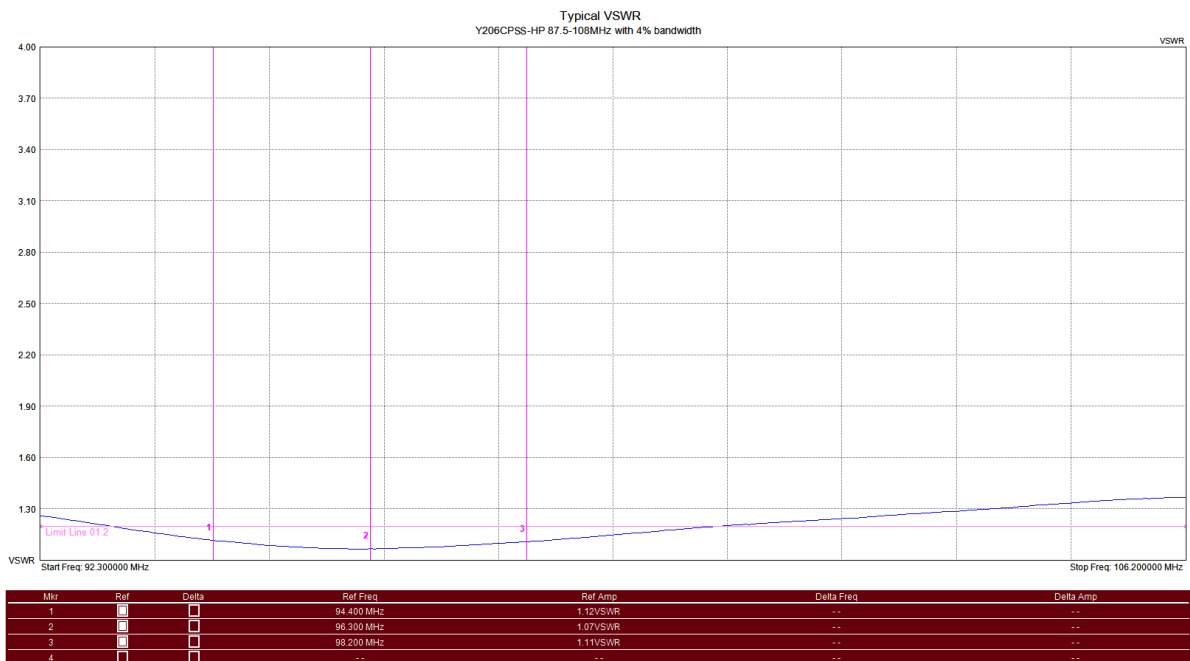
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Example Polar radiation pattern, per plane - Y206CPSS-HP



Typical VSWR -Y206CPSS-HP




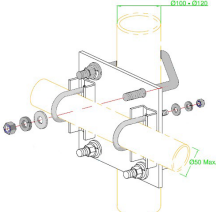
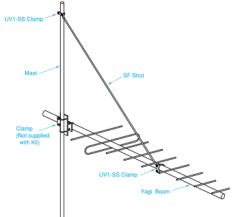
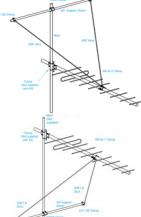


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Suitable mounting hardware

	<p>Y2300-SS 304 stainless steel right-angle round boom Yagi clamp Boom: 30-50mm capability Mount pole: 30-50mm capability</p>		<p>Y2300SS-L 304 stainless steel large right-angle round boom Yagi clamp Boom: 32-50mm capability Mount pole: 40-75mm capability</p>
	<p>Y2300SS-XL 304 stainless steel extra large right-angle round boom Yagi clamp Boom: 32-50mm capability Mount pole: 50-90mm capability</p>		<p>C-125 Galvanised steel extra large right-angle round boom Yagi clamp Boom: 32-50mm capability Mount pole: 100-125mm capability</p>
	<p>YS1-23 Single tension strut kit includes strut-to-yagi and strut-to-pole mounting hardware. Does not include Yagi to pole mounting</p>		<p>YS2-23 Dual tension strut kit or YS2-23C Dual compression strut kit includes support boom, strut-to-yagi and strut-to-pole mounting hardware. Does not include Yagi to pole mounting</p>

Suitable feeder coaxial cable and connectors

	<p>1/2" super flexible helical shielded, foam dielectric coaxial cable SKU: ZCG1250SF Available in per metre, 500m roll or alternatively request a custom cable assembly</p>		<p>7/16" DIN male clamp connector for 1/2" super flexible, helical shielded coaxial cable SKU: 716DINM1250SF Tri-metal plated - Low P.I.M.</p>
	<p>1/2" corrugated shielding, foam dielectric coaxial cable SKU: ZCG1250 Air-dielectric SKU: ZCG1250-A Available in per metre, 500m roll or alternatively request a custom cable assembly</p>		<p>7/16" DIN male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable SKU: 716DINM1250 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, 500m roll or alternatively request a custom cable assembly</p>		<p>7/16" DIN male clamp connector for 7/8" flexible, corrugated shielded, coaxial cable SKU: 716DINM7850 Tri-metal plated - Low P.I.M.</p>