

## LPY108-88 series

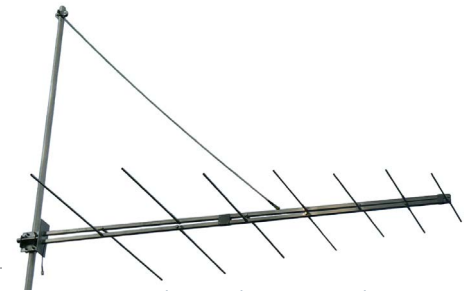
### Directional broadband log periodic antenna with detachable elements

#### FM Radio 87.5-108 MHz

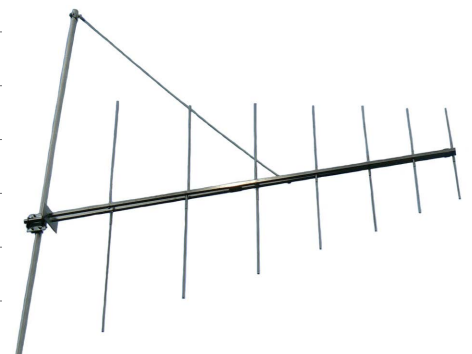
For applications requiring genuine broadband coverage across the entire FM Radio frequency range 87.5-108MHz, the LPY108-88 log periodic antenna offers the ideal solution.

Cavity filters, coaxial feeder cable, connectors and other installation accessories are all available separately.

	LPY108-88	LPY108-88SS
Construction	Detachable elements, welded aluminium boom with tune plate, mount spigot, external cable and termination	Detachable elements, welded 304 stainless steel boom with tune plate, mount spigot, external cable and termination
Frequency range	87.5-108 MHz - FM Radio	
Bandwidth	Full frequency range stated - 20.5 MHz	
VSWR	<2.0:1	
Tuning	Factory	
Gain	7 dBi	
Maximum power	200 Watts	
Impedance - nominal	50 Ohms	
Polarisation	Mount horizontal or vertical as required	
H Plane	98°	
E Plane	59°	
Front-to-back ratio	>15dB	
DC grounding	Yes	
Cable	200mm UV stabilised RG142 bottom exit from boom	
Connector	N-type female fitted as standard or specify requirements	
Boom length	2.911m + 200mm rear spigot mount	
Longest element	1.88m	
Weight	2.6kg	12kg
Projected area	0.194m <sup>2</sup>	
Wind load at 160kph	12.2kg, 0.113kN	57.5kg, 0.564kN
Mounting hardware order separate	Support Strut kit: 1 x YS1-100 - recommended Aluminium: 1 x Y2300, Y2300-L or Y2300-XL Stainless steel 1 x Y2300SS, Y2300SS-L or Y2300SS-XL	
Installation tools required	Stainless steel tommy bar for securing elements	



LPY108-88SS in horizontal orientation with YS1-100 support strut fitted - recommended



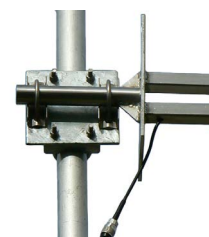
LPY108-88SS in vertical orientation with YS1-100 support strut fitted - recommended



Coaxial cable bottom exit from bottom boom



N-type female connector fitted as standard



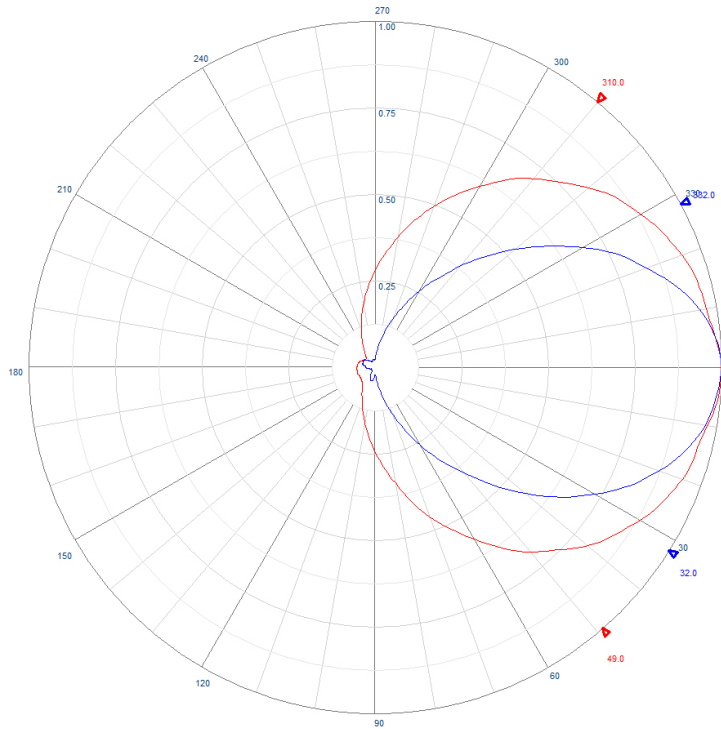
Updated mounting hardware with mounting spigot with support gussets. Allowing for easy installation and polarisation orientation.



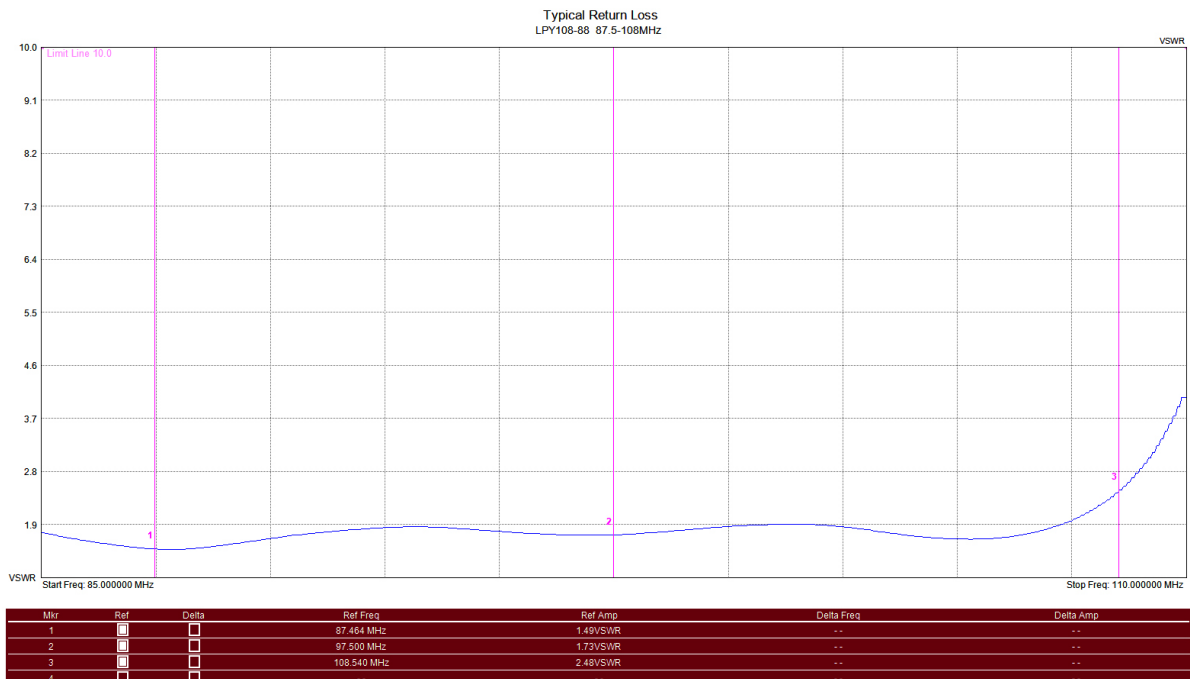
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Example radiation pattern



Typical VSWR



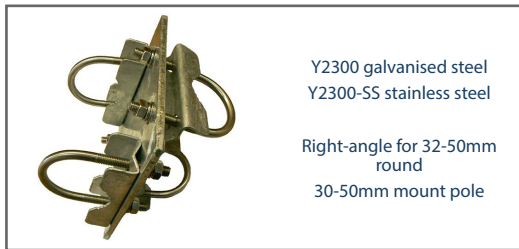
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### FM Radio 87.5-108 MHz

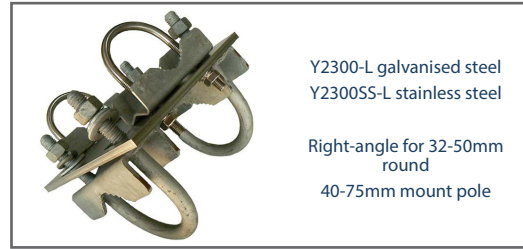


#### Suitable mounting hardware



Y2300 galvanised steel  
Y2300-SS stainless steel

Right-angle for 32-50mm round  
30-50mm mount pole



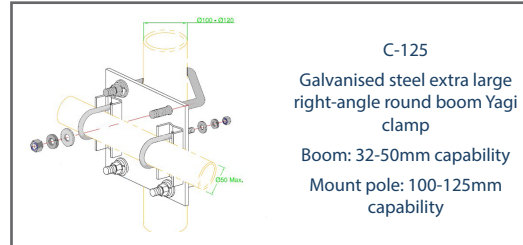
Y2300-L galvanised steel  
Y2300SS-L stainless steel

Right-angle for 32-50mm round  
40-75mm mount pole



Y2300-XL galvanised steel  
Y2300SS-XL stainless steel

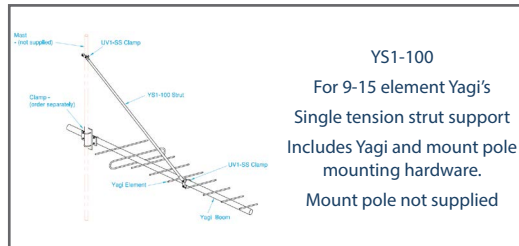
Right-angle for 32-50mm round  
40-75mm mount pole



C-125

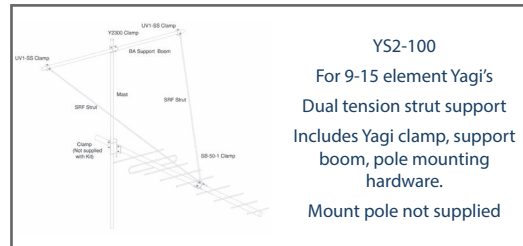
Galvanised steel extra large right-angle round boom Yagi clamp

Boom: 32-50mm capability  
Mount pole: 100-125mm capability



YS1-100

For 9-15 element Yagi's  
Single tension strut support  
Includes Yagi and mount pole mounting hardware.  
Mount pole not supplied



YS2-100

For 9-15 element Yagi's  
Dual tension strut support  
Includes Yagi clamp, support boom, pole mounting hardware.  
Mount pole not supplied

#### Suitable feeder coaxial cable



RU400 Solid copper conductor, low loss coaxial cable  
CNT-400 / LMR-400™ equivalent  
(\* times microwave)

P/N 7890

Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor

P/N 8226

Tri-metal plated



1/2" helical shielded, foam dielectric coaxial cable

P/N ZCG1250SF

Available in per metre, or 500m rolls or alternatively request a custom cable assembly



N-type male clamp connector for 1/2" super flexible, helical shielded, foam dielectric coaxial cable

P/N NM1250SF

Tri-metal plated



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



N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable

P/N NM1250

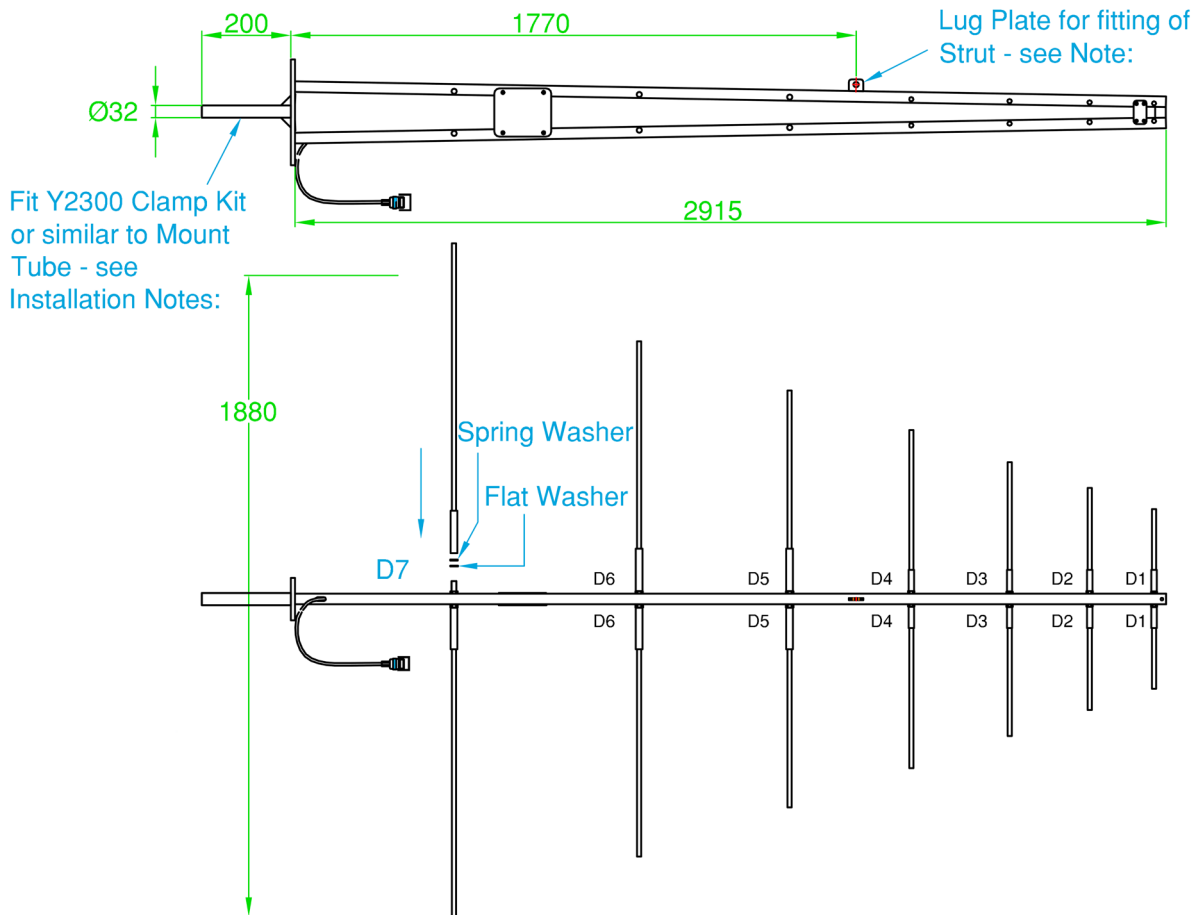
Tri-metal plated



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#### ASSEMBLY NOTES:

1. Director Elements are labelled D7 to D1
2. The Antenna has two of each Director: 2 x D7, 2 x D6 .. and so on
3. Connection Jointing Paste has been applied each Boom Bolt
4. Fit supplied M10 & M12 flat washer & spring washer to respective Boom Bolt
5. Attach each Director to its corresponding Label position on the Boom
6. Use the supplied Tommy Bar to tighten each Director

#### INSTALLATION NOTES:

- Use Y2300 Clamp Kit or similar to fit antenna to mast - purchase separately.
- It is recommended to install Antenna with a RF2.5 Strut Kit - purchase separately.

