



LPY88-800-175SB

Adjustable polarisation broadband log periodic antenna

FM Radio, VHF & UHF 88-800 MHz



For testing, reporting or surveying applications requiring genuine broadband coverage across the FM Radio, VHF & UHF frequency range 88-800 MHz, the LPY88-800 log periodic antenna offers the ideal solution.

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

Construction	2-piece 'split' aluminium boom, aluminium detachable elements, mount plate and tilting mount bracket and 2-piece cable assembly
Frequency range	88-800 MHz - FM Radio, VHF and UHF
Bandwidth	Full frequency range stated
VSWR	<2:1 - 2.8:1 at 88 MHz
Tuning	Factory
Gain	7 dBi
Maximum power	200 Watts
Impedance - nominal	50 Ohms
Polarisation	Mount horizontal or vertical as required
H Plane	105° - 142° depending on frequency
E Plane	43° - 75° depending on frequency
Front-to-back ratio	7dB - 15dB depending on frequency
DC grounding	Yes
Connector	N-type female fitted to rear plate
Dimensions	Length: 2.2 metres, Widest element: 1.724m
Projected area	0.182m ²
Wind load at 160kph	21.993kg, 0.216kN
Mounting hardware supplied	Detachable mounting spigot allows for 360° rotation and tilt assist mount allows for adjustable polarisation configuration between vertical and horizontal



LPY88-800-175SB pivot in vertical orientation



LPY88-800-175SB pivot in horizontal orientation



N-type female termination at rear of antenna



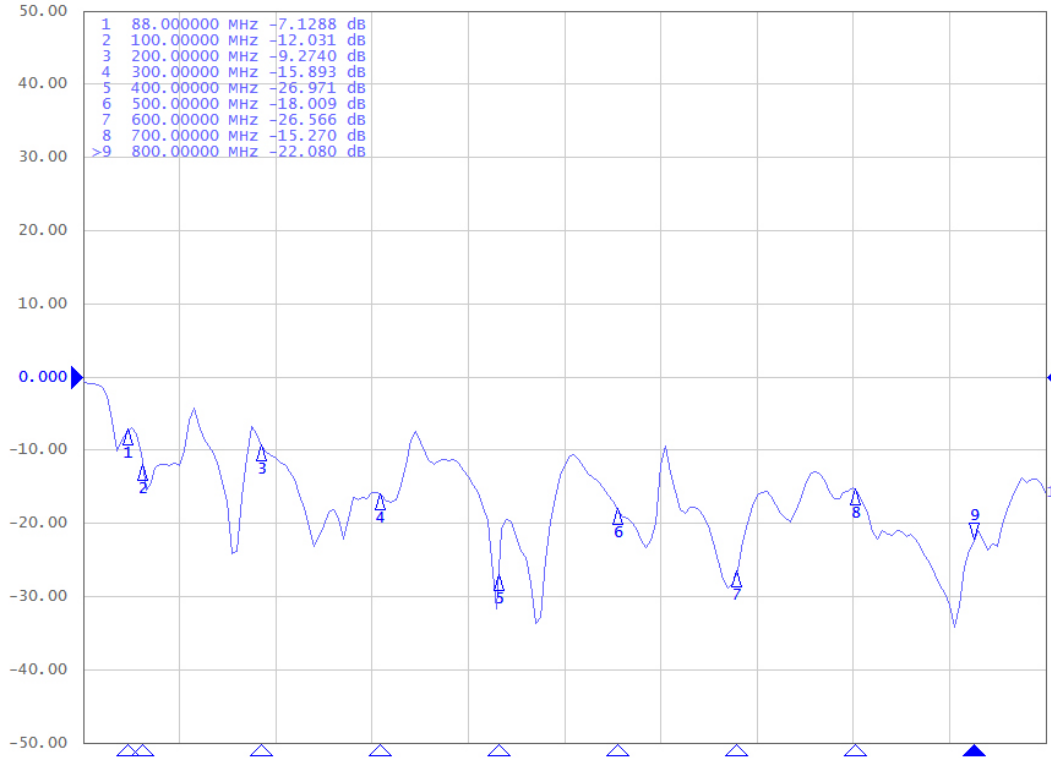
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▶ **Tr1** S11 Log Mag 10.00 dB/ Ref 0.000 dB [F1 M]



Typical Return Loss



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Suitable feeder coaxial cable and connectors

	<p>MIL-SPEC RG213 solid PE dielectric, 7 strand copper conductor coaxial cable P/N 7803</p> <p>Available in 100m or 300m rolls or alternatively request a custom cable assembly</p>		<p>N-type male crimp connector for RG213 coaxial cable P/N 7937</p> <p>Tri-metal plated</p>
	<p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (* times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>		<p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226</p> <p>Tri-metal plated</p>
	<p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (* times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>		<p>N-type male crimp connector for RU600 low loss, solid conductor P/N 8226-2</p> <p>Tri-metal plated</p>
	<p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 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 P/N NM1250SF</p> <p>Tri-metal plated</p>
	<p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll 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</p> <p>Tri-metal plated</p>