

LPY607-AL

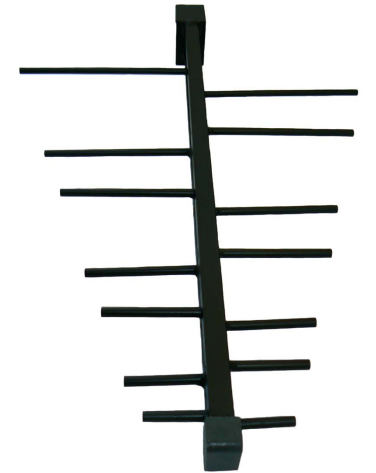
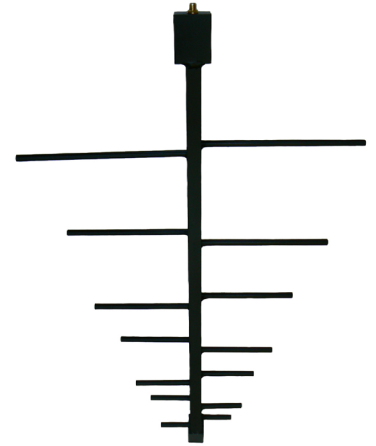
Lightweight directional broadband log periodic antenna

UHF 470-820 MHz

The LPY607-AL log periodic antenna provide exceptionally broad bandwidth coverage across the UHF 470-820MHz frequency range. The lightweight design of the LPY607-AL allows for highly portable applications or mounting beneath UAV or commerical drones.

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

Construction	Fully-welded corrosion resistant aluminium or painted on request, specify colour
Frequency range	470-820 MHz - UHF
Bandwidth	Full frequency range stated - 350 MHz
VSWR	<2:1
Tuning	Factory
Gain	6 dBi
Maximum power	250 Watts
Impedance - nominal	50 Ohms
Polarisation	Mount horizontal or vertical as required
Front-to-back ratio	24dB
DC grounding	Yes
Connector	SMA female bulkhead fitted to rear of antenna or specify requirements
Boom length	470mm
Longest element	320mm
Weight	740grams
Projected area	0.02m ²
Wind load at 160kph	2.47kg, 0.024kN
Mounting hardware	Consult ZCG on your specific requirements for a custom mounting solution



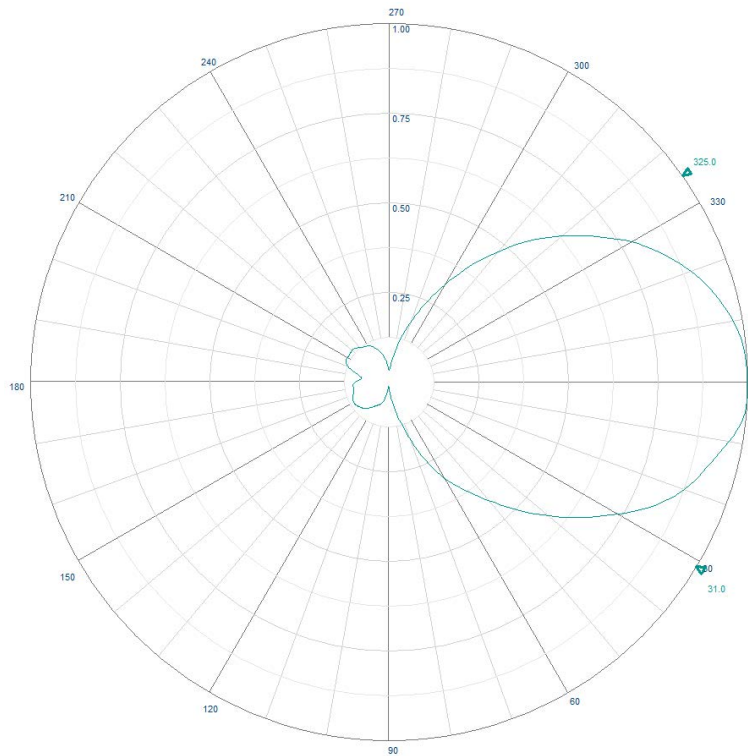
SMA female bulkhead in rear of antenna



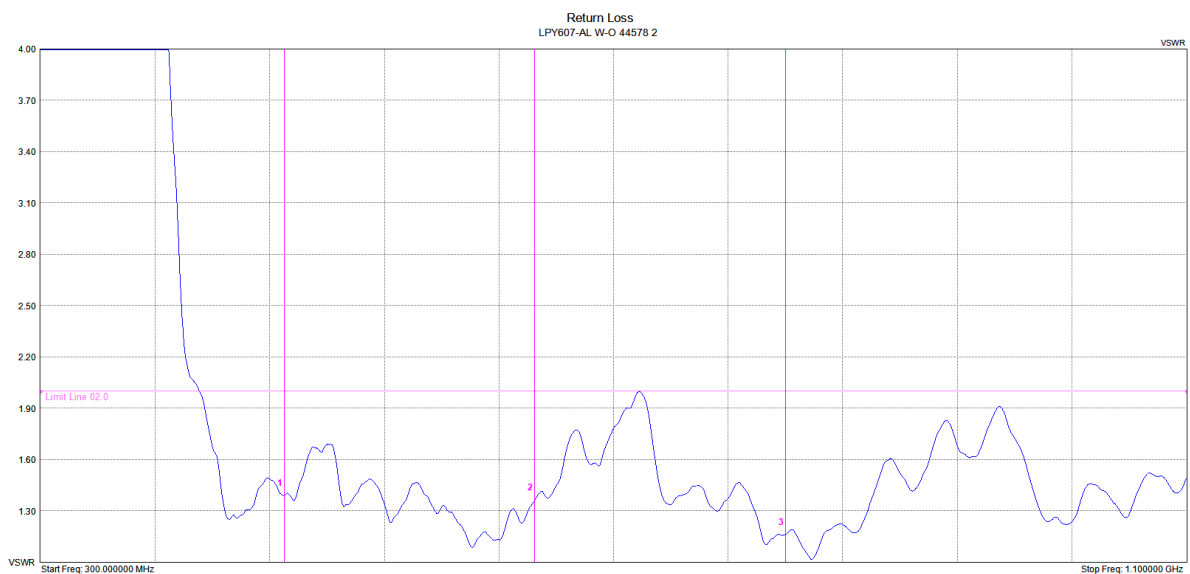
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Example radiation pattern



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	470.000 MHz	1.38VSWR	--	--
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	645.000 MHz	1.38VSWR	--	--
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	820.000 MHz	1.16VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR





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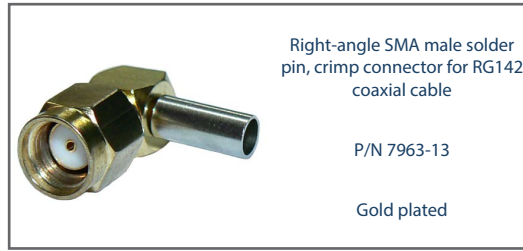


Suitable feeder coaxial cable and connectors



MIL-SPEC RG174A/U miniature, stranded core coaxial cable
P/N 7877

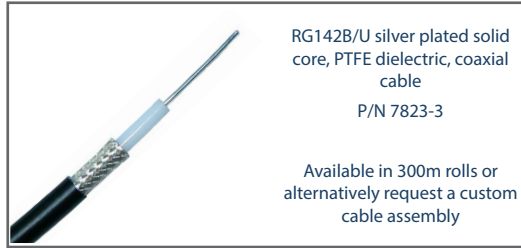
Available in 500m rolls or alternatively request a custom cable assembly



Right-angle SMA male solder pin, crimp connector for RG142 coaxial cable

P/N 7963-13

Gold plated



RG142B/U silver plated solid core, PTFE dielectric, coaxial cable
P/N 7823-3

Available in 300m rolls or alternatively request a custom cable assembly



SMA male solder pin, crimp connector for RG142 coaxial cable

P/N 8204

Gold plated



MIL-SPEC RG58 low loss, foam PE dielectric, solid copper core coaxial cable
P/N 7839

Available in 100m or 300m rolls or alternatively request a custom cable assembly



SMA male crimp connector for MIL-SPEC RG58 coaxial cables

P/N 7963-7

Gold plated