

Very High-Power LPDA

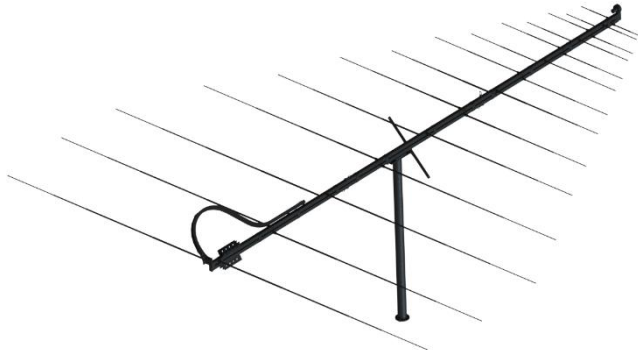
20 – 100 MHz

Product Code: LPDA-A0101

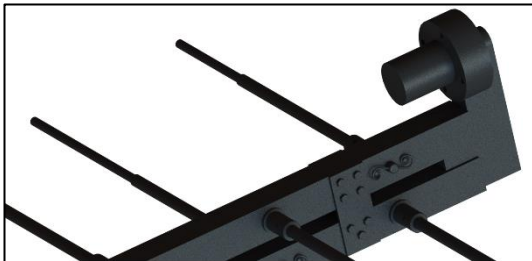
VERSION: 1.4

SPECIFICATIONS

| Electrical: | |
|---|--|
| Frequency range | 20 – 100 MHz |
| VSWR | < 2.5:1 |
| Nominal input impedance | 50 Ω |
| Connector | 1 5/8" female |
| Feed power handling | 5 kW |
| MTBF | > 50,000 hrs |
| Gain | |
| | 6 dBi typical, -2 dBi minimum from 20 – 30 MHz |
| E-plane 3 dB beamwidth | 55° |
| H-plane 3 dB beamwidth | 100° |
| Polarisation | Adjustable (vertical and horizontal) |
| Mechanical: | |
| Dimensions (w x l) | 8708 mm x 7036 mm |
| Weight | 72 kg (incl. mast) 53 kg (excl. mast) |
| Material | Aluminium, stainless steel, fibreglass |
| Mounting method | Bracket onto a mast |
| Environmental: designed to meet the following specifications | |
| Temperature (operational) | - 40 °C to +55 °C (no icing) |
| Wind survival on mast | 160 km/h (calculated) |



Close up view of cable management



Close up view of connector interface

FEATURES:

- Low frequency coverage up to 100 MHz in a single antenna
- Low VSWR
- High gain of 6 dBi over the band
- Very high feed power handling of 5 kW
- Easy construction of detachable elements with spring fasteners
- Compact storage as unit is easily broken into smaller parts

APPLICATIONS:

- Wideband monitoring
- High-power applications

PRODUCT DESCRIPTION:

The high-powered LPDA-A0101 is a directional log-periodic dipole array primarily designed for EW applications. It covers the 20 to 100 MHz frequency range, at 5 kW of power, with 6 dBi of gain, or a 80° to 100° H-plane beamwidth. The polarisation is adjustable between vertical and horizontal without lowering the mast. The antenna breaks into three sections for compact storage, and can be fully erected from packaged by two people in under 30 minutes.

This antenna can be used for reception at frequencies up to 400 MHz with reasonable gain.

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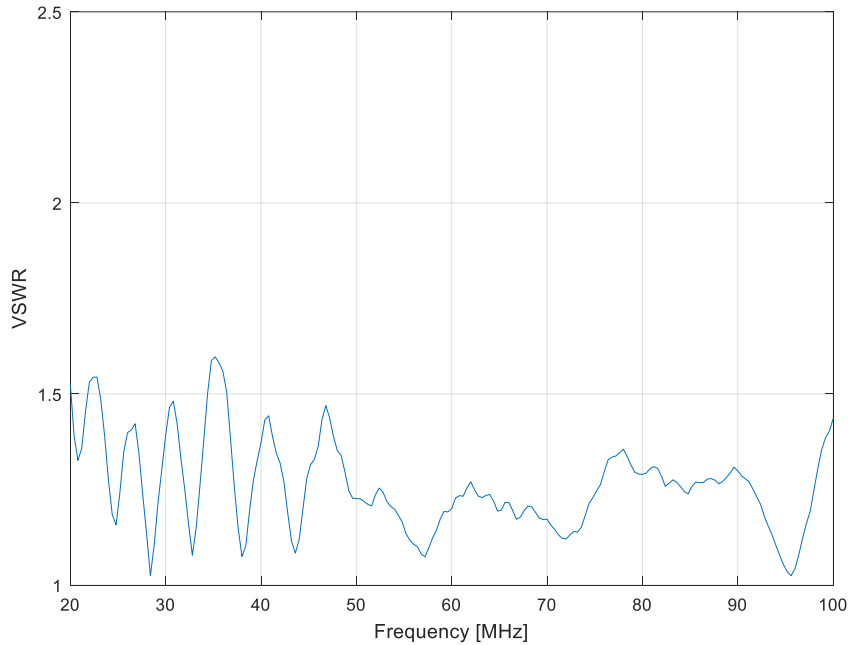
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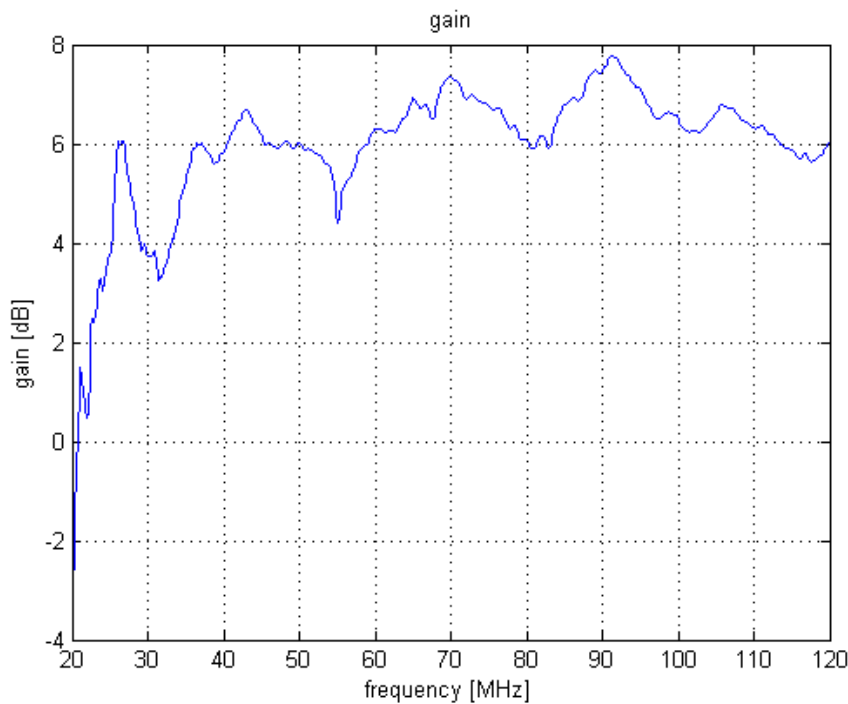
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VSWR AND GAIN GRAPHS:

VSWR:



GAIN:



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