

High-Power LPDA

30 – 100 MHz

Product Code: LPDA-A0090



SPECIFICATIONS:

Electrical:	
Frequency range	30 – 100 MHz
VSWR	< 2.0:1 (30 – 50 MHz) < 1.5:1 (50 – 100 MHz)
Nominal input impedance	50 Ω
Connector	7/16 female
Feed power handling	2 kW
MTBF	50,000 hrs
Gain	> 5 dBi
E-plane 3 dB beamwidth	60° \pm 10°
H-plane 3 dB beamwidth	105° \pm 15°
Polarisation	Linear, adjustable (vertical and horizontal)
Mechanical:	
Dimensions (w x l)	5200 mm x 5600 mm
Isolating mast length	2000 mm
Weight	38 kg
Materials	Aluminium, stainless steel, fibreglass
Mounting method	4 bolts through base flange
Environmental: designed to meet the following specifications	
Temperature (operational)	- 40 °C to +55 °C (no icing)
Wind survival on mast	160 km/h (calculated)

FEATURES:

- Low VSWR
- High gain of 5 dBi over the band
- High feed power handling of 2 kW
- Easy construction of detachable elements with spring fasteners
- Compact storage as unit is easily broken into smaller parts

APPLICATIONS:

- Wideband monitoring
- High-power

PRODUCT DESCRIPTION:

The high-powered LPDA-A0090 is a directional log-periodic dipole array designed for EW applications. It covers the 30 to 100 MHz band, with 2 kW of power handling, and 6 dBi of gain. The polarisation is adjustable between vertical and horizontal without lowering the mast. The antenna breaks into 3 for compact storage, and can be fully erected from packaged by 2 people in less than 10 minutes.

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

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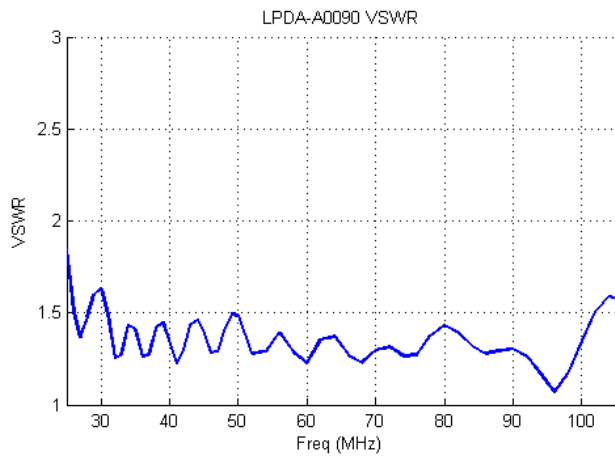
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VERSION: 1.3

VSWR AND GAIN GRAPHS:

VSWR:



GAIN:

