



## SPECIFICATIONS

<b>Electrical:</b>	
Frequency range	20 – 100 MHz
VSWR	<2.5 : 1
Nominal input impedance	50 $\Omega$
Connector	7/16 female
Feed power handling	2 kW
MTBF	50,000 hrs
<b>Gain</b>	
Gain	6 dBi typical, 0 dBi minimum from 32 – 20 MHz
E-Plane 3dB beamwidth	55 $^{\circ}$
H-Plane 3dB beamwidth	100 $^{\circ}$
Polarisation	Adjustable (Vertical and Horizontal)
<b>Mechanical:</b>	
Dimensions (w x l)	5700 mm x 6200 mm
Weight	38 kg
Material	Aluminium, Stainless Steel, Fibreglass
Mounting method	Bracket onto a mast
<b>Environmental:</b>	
Temperature (operational)	- 40 $^{\circ}$ C - +55 $^{\circ}$ C (no icing)
Wind survival on mast	160 km/h (calculated)

## FEATURES:

- Low frequency coverage up to 100 MHz in a single antenna
- Low VSWR,
- High Gain of 6 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:

- Wide band monitoring & jamming

## PRODUCT DESCRIPTION

The high powered LPDA is a directional log-periodic dipole array primarily designed for EW applications. It covers the 20 - 100 MHz , at 2 kW of Power, with 6 dBi of gain, or a 80 $^{\circ}$  - 100 $^{\circ}$  H-Plane beam width. The polarisation is adjustable between vertical and horizontal without lowering the mast. The antenna breaks into three for compact storage, and can be fully erected from packaged by two people in less than 10 minutes.

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

# Hi-Power LPDA Antenna

20 – 100 MHz

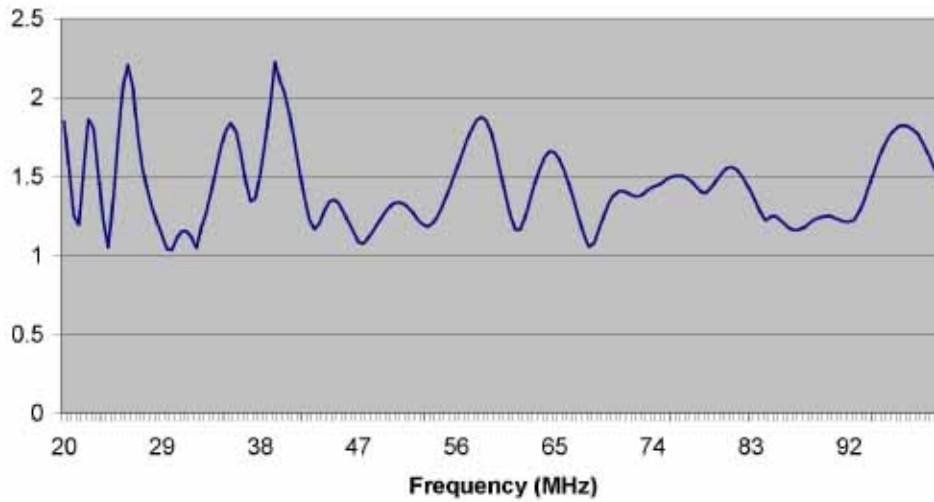
Product Code: LPDA-A0029

PRODUCT STATUS: COTS

VERSION: 1.0

## VSWR AND GAIN GRAPHS:

### MEASURED VSWR of LPDA-A0029



### SIMULATED GAIN OF LPDA-A0029

