

# Very High-Power LPDA

100 – 500 MHz

Product Code: LPDA-A0102

VERSION: 1.4



## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range	100 – 500 MHz
VSWR	2.5 :1
Nominal input impedance	50 Ω
Gain on horizon	7 dBi typical
Elevation 3 dB beamwidth	50°
Azimuth 3 dB beamwidth	110°
Polarisation	Linear, adjustable vertical and horizontal
MTBF	50,000 hrs
Feed power handling	5 kW CW
Connectors	1 5/8" female
<b>Mechanical:</b>	
Dimensions (w x l)	1500 mm x 1920 mm
Material	Aluminium, stainless steel, fibreglass
Total mass	14 kg (incl. mast) 8 kg (excl. mast)
Mounting	Off-centre on 1.1 m isolation pole (supplied)
<b>Environmental: designed to meet the following specifications</b>	
Wind survival on mast	160 km/h (calculated)
Temperature range	- 30 °C (no icing) to + 65 °C

## PRODUCT FEATURES:

- Low VSWR and high gain over the frequency band
- High feed power handling of 5 kW
- Vertical and horizontal polarisation
- Easy to assemble and disassemble
- Rugged construction

## PRODUCT APPLICATIONS:

- Wideband monitoring
- High-power applications

## PRODUCT DESCRIPTION:

The LPDA-A0102 is a directional log-periodic dipole array that covers the frequency band 100 to 500 MHz at 5 kW of feed power with a typical gain of 7 dBi. Off-centre mounted on a supplied isolation pole.

Polarisation is adjustable between vertical and horizontal via the mounting bracket.

This antenna can be customized for frequencies in a wideband of frequencies with excellent gain, VSWR and higher power handling.

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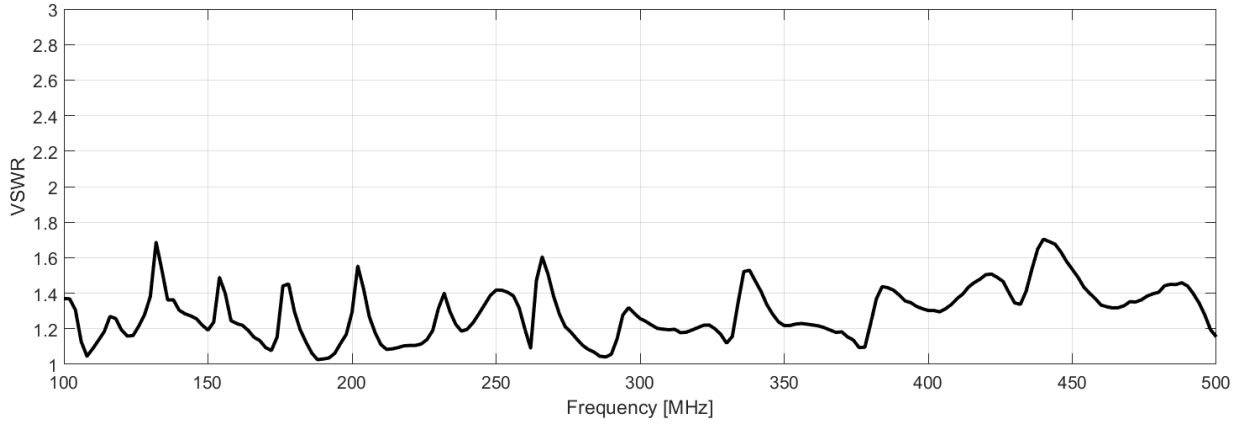
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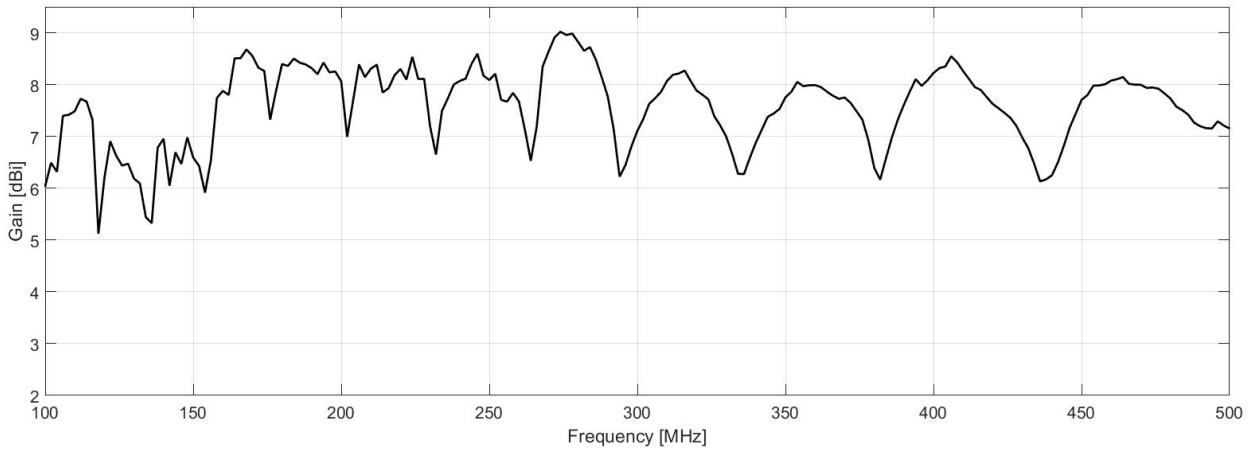
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## VSWR AND GAIN GRAPHS:

### Typical VSWR:



### Measured Gain:



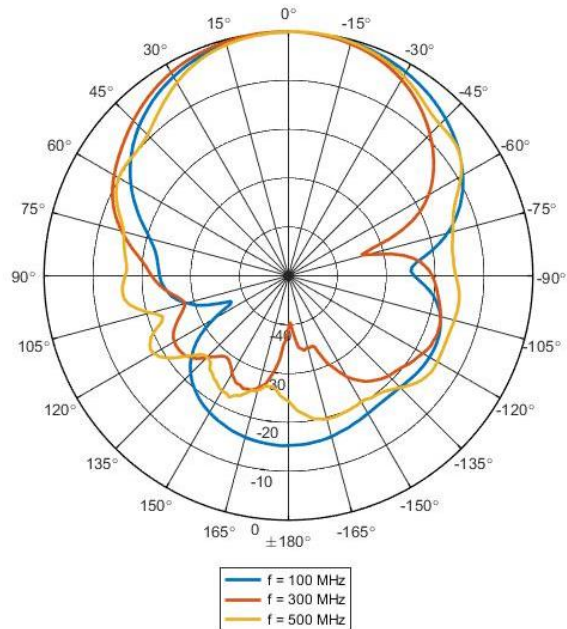
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## Normalised radiation patterns: E-plane:



## H-plane:

