

# High-Power Wideband LPDA

1000 – 3000 MHz

Product Code: LPDA-A0104

VERSION: 1.6



## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range	1000 – 3000 MHz (3200 MHz with reduced performance)
VSWR	< 2:1
Nominal input impedance	50 Ω
Connector	EIA 1 5/8"
Feed power handling	1000 W @ 1 GHz 900 W @ 3 GHz
Gain	9 dBi typical
Polarisation	Vertical or Horizontal mounting
<b>Mechanical:</b>	
Dimensions (d x l)	170 mm x 700 mm
Weight	4 kg (including mounting bracket)
Material	Stainless steel, plastic and fibreglass
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	160 km/h calculated
Temperature (operational)	-30 °C to +65 °C (no icing)
Water and dust resistance	IP65

## ELECTRICAL FEATURES:

- High feed power handling
- Low VSWR
- High gain over the band
- Rugged design

## APPLICATIONS:

- Wideband monitoring
- High-power transmissions

## PRODUCT DESCRIPTION

The LPDA-A0104 is a directional log-periodic dipole array that is primarily designed for high-powered transmit applications. It covers the frequency band of 1000 to 3000 MHz (3200 MHz with reduced performance), with a typical gain of 9 dBi.

The antenna is easily mounted at the rear for either vertical or horizontal polarisation.

This antenna can be customized if required, for different frequency ranges.

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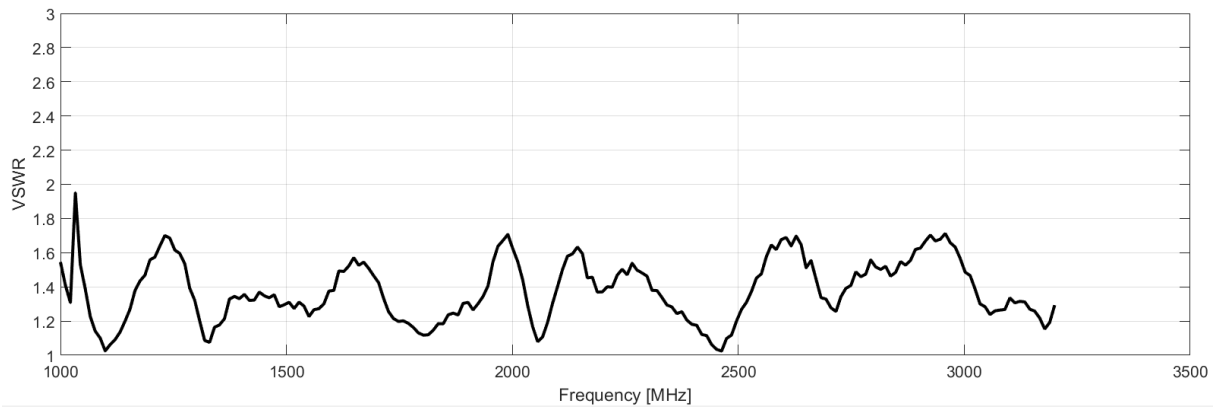
1000 – 3000 MHz

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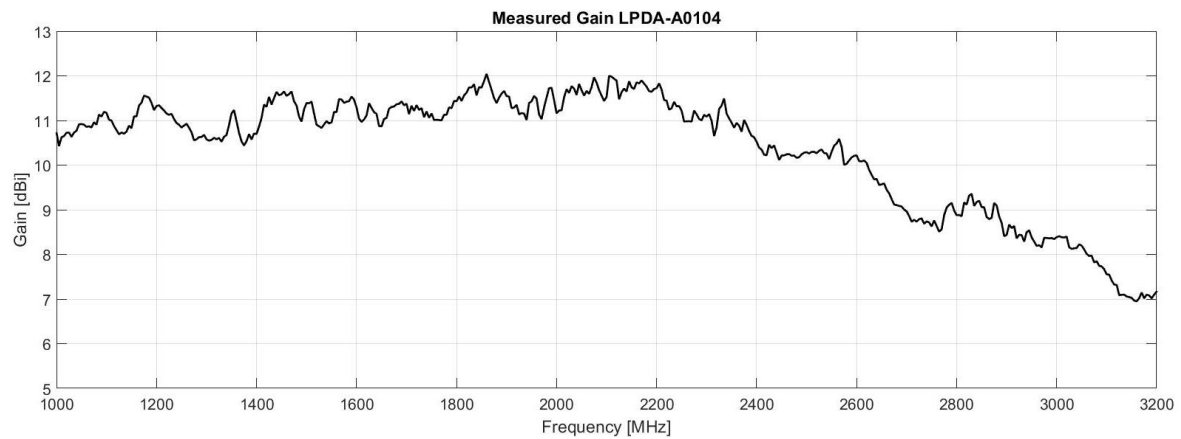
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## VSWR AND GAIN GRAPHS:

### TYPICAL VSWR:



### GAIN:



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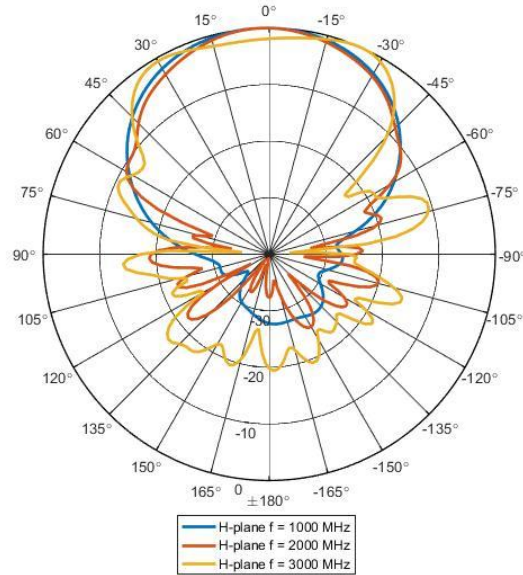
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## RADIATION PATTERNS:

### H-PLANE PATTERN:



### E-PLANE PATTERN:

