

Wideband LPDA Antenna

1000 – 3000 MHz

Product Code: LPDA-A0032

VERSION: 2.8

SPECIFICATIONS:



Electrical:	
Frequency range	1000 – 3000 MHz
VSWR	< 2:1
Nominal input impedance	50 Ω
Connector	7/16 female
Feed power handling	300 W
Gain	See graph
Polarisation	Linear (vertical and horizontal)
Mechanical:	
Dimensions (d x l)	170 mm x 700 mm
Weight	4 kg
Material	Stainless steel, plastic and fibreglass
MTBF	75000 hours
Environmental: designed to meet the following specifications	
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 of 300 W
- Low VSWR
- High gain over the band
- Rugged design

APPLICATIONS:

- Wideband monitoring
- High-power transmissions

PRODUCT DESCRIPTION

This LPDA 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 at 300 W of power, 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 customised if required, for different frequency ranges.

Wideband LPDA Antenna

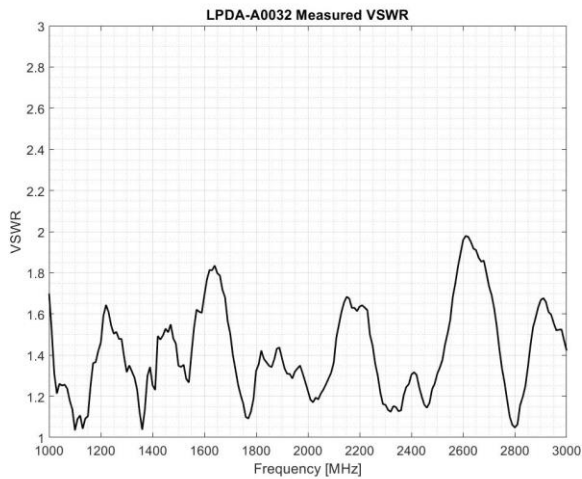
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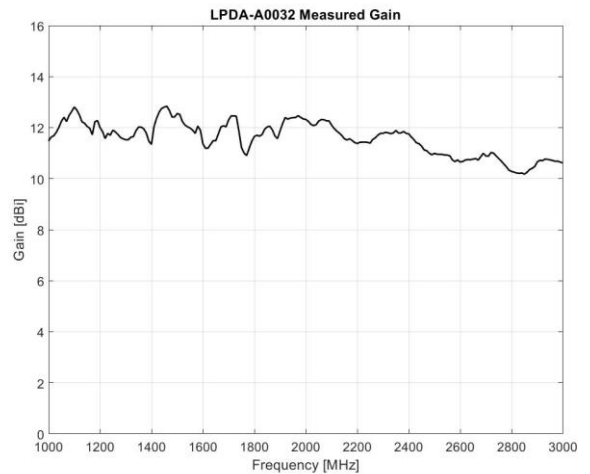
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VSWR AND GAIN GRAPHS:

TYPICAL VSWR:

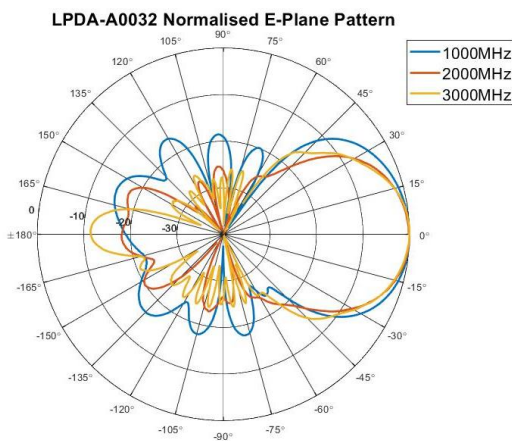


GAIN:

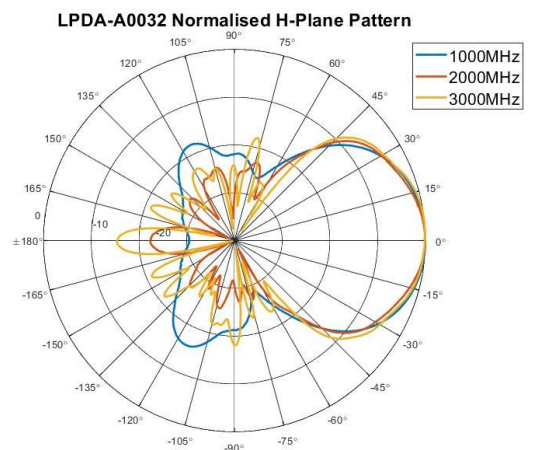


RADIATION PATTERNS:

E-PLANE PATTERN:



H-PLANE PATTERN:



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Cyntony Corporation
195 Follen Road
Lexington, Massachusetts
sales@cyntony.com
781-430-0675



GAIN THE ADVANTAGE