

# High-Power LPDA Antenna

400 – 6000 MHz

Product Code: LPDA-A0121

VERSION: 1.5

## SPECIFICATIONS:



Figure 1: LPDA-A0121-01

<b>Product Codes:</b>	
LPDA-A0121	Stand-off mount
LPDA-A0121-01	60mm Mast mount
LPDA-A0121-02	Flange mount
LPDA-A0121-03	Mast mount with vertical and horizontal polarisation mount
<b>Electrical:</b>	
Frequency range	400 – 6000 MHz
VSWR	< 2.0:1
Nominal input impedance	50 Ω
Connector	N-type female
Feed power handling	See graph below
Gain (typical)	8 dBi
E-plane 3 dB beamwidth	50°
H-plane 3 dB beamwidth	60°
Polarisation	Linear
Front-to-back ratio	≥ 15 dB
<b>Mechanical:</b>	
Dimensions (w x l)	450 mm x 770 mm (incl. bracket)
Material	Aluminium, stainless steel, fibreglass
Total mass	3.7 kg (incl. mounting bracket)
Mounting method:	
LPDA-A0121	4 x M8 Bolts
LPDA-A0121-01	Mast mount (60mm)
LPDA-A0121-02	Flange mount
LPDA-A0121-03	Mast mount (Vertical or Horizontal)
MTBF	500,000 h
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	
LPDA-A0121	160 km/h calculated
LPDA-A0121-01	160 km/h calculated
LPDA-A0121-02	240 km/h calculated
LPDA-A0121-03	160 km/h calculated
Operating Temperature	-30°C to +65° (no icing)
Storage Temperature	-40°C to +85°
Corrosion	Designed for MIL-STD-810F MIL-1250A

## PRODUCT FEATURES:

- Wideband frequency 400 to 6000 MHz
- VSWR < 2.0:1
- High gain: 8 dBi
- Rugged construction
- Ice resistant

## PRODUCT APPLICATIONS:

- Wideband
- High-Power

## RELATED PRODUCTS:

- BRKT-A049 – Polarisation bracket  
Can be used with LPDA-A0121-03, sold separately

## PRODUCT DESCRIPTION:

The LPDA-A0121 directional log-periodic dipole array (LPDA) is primarily designed for high-power applications. It covers a frequency band of 400 to 6000 MHz with a gain of greater than 8 dBi.

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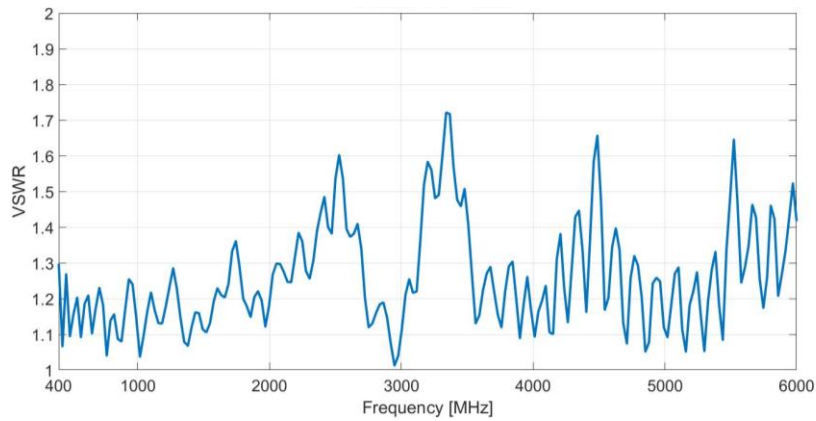
400 – 6000 MHz

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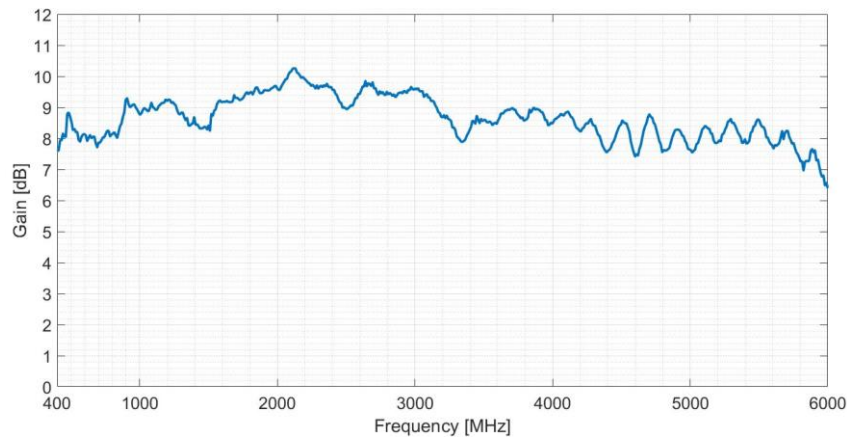
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## VSWR AND GAIN GRAPHS:

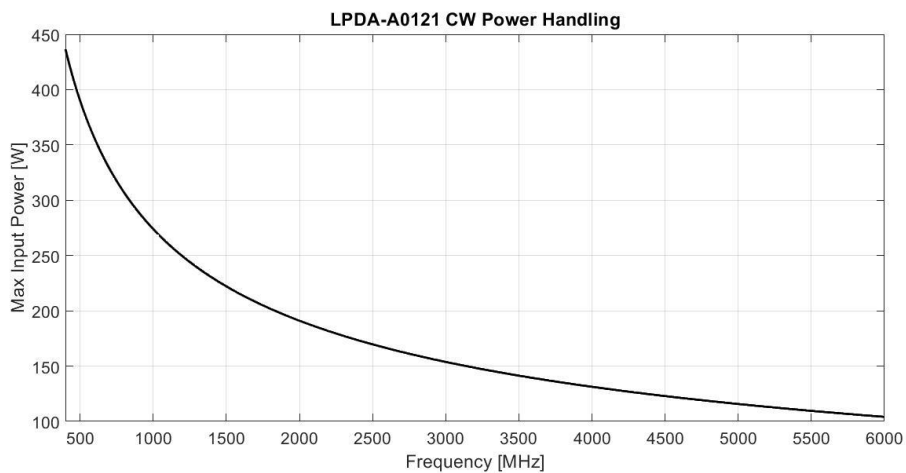
### Typical VSWR:



### GAIN:



### POWER HANDLING:



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

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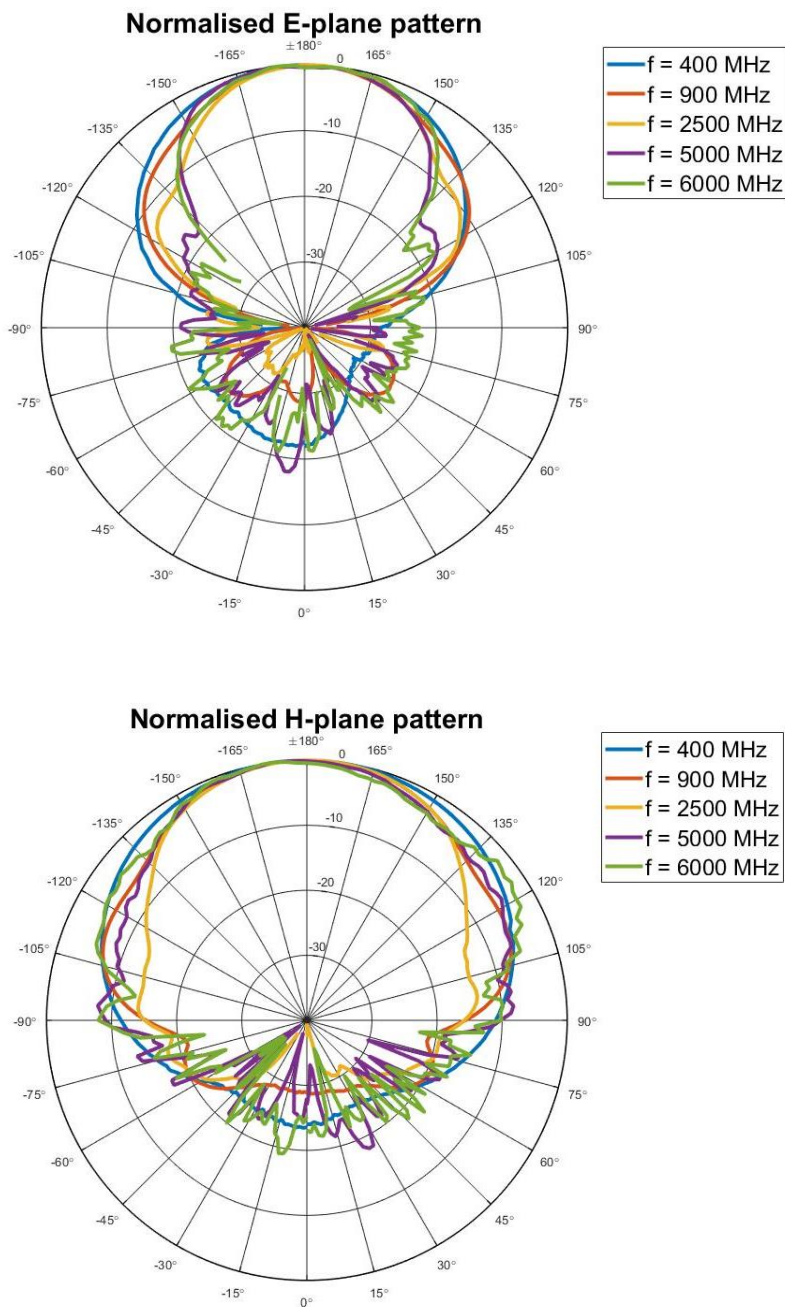
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## RADIATION PATTERNS:



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