High-Power LPDA Antenna

400 – 6000 MHz

VERSION: 1.6

Product Code: LPDA-A0121

Figure 1: LPDA-A0121-01

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

SPECIFICATIONS:

Product Codes:	
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
Electrical:	
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	See graph below
H-plane 3 dB beamwidth	See graph below
Polarisation	Linear
Front-to-back ratio	≥ 15 dB
Mechanical:	
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 LPDA-A0121-01 LPDA-A0121-02 LPDA-A0121-03	 4 x M8 Bolts Mast mount (60mm) Flange mount Mast mount (Vertical or Horizontal)
MTBF	500,000 h
Environmental: designed to meet the following specifications	
Wind survival LPDA-A0121 LPDA-A0121-01 LPDA-A0121-02 LPDA-A0121-03	 160 km/h calculated 160 km/h calculated 240 km/h calculated 160 km/h calculated
Operating Temperature	-30ºC to +65º (no icing)
Storage Temperature	-40ºC to +85º
Corrosion	Designed for MIL-STD-810F MIL-1250A

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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GAIN THE ADVANTAGE

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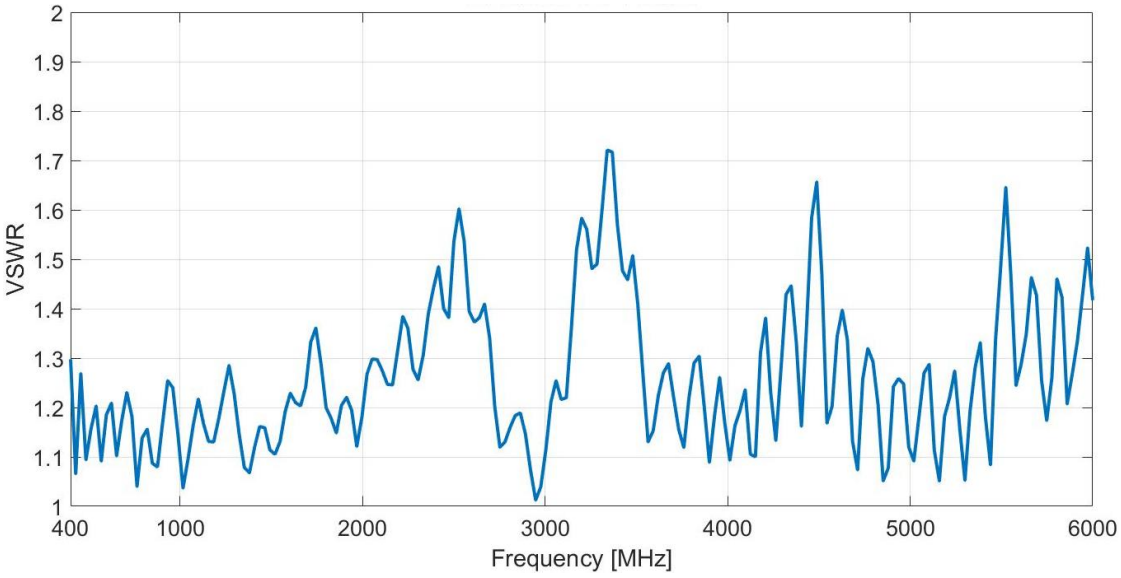
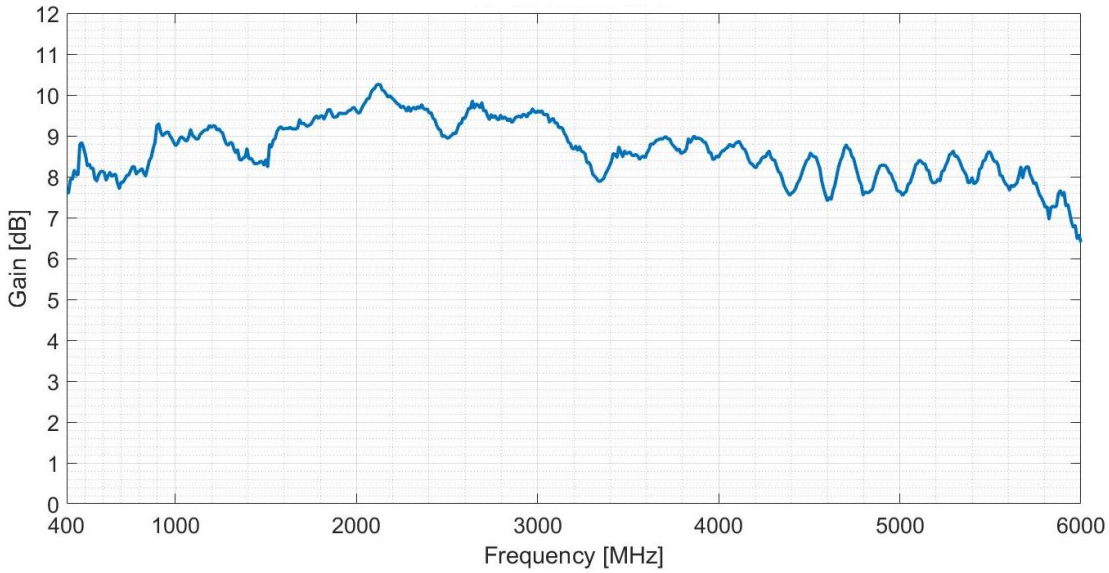
VSWR AND GAIN GRAPHS:

Typical VSWR:



GAIN:



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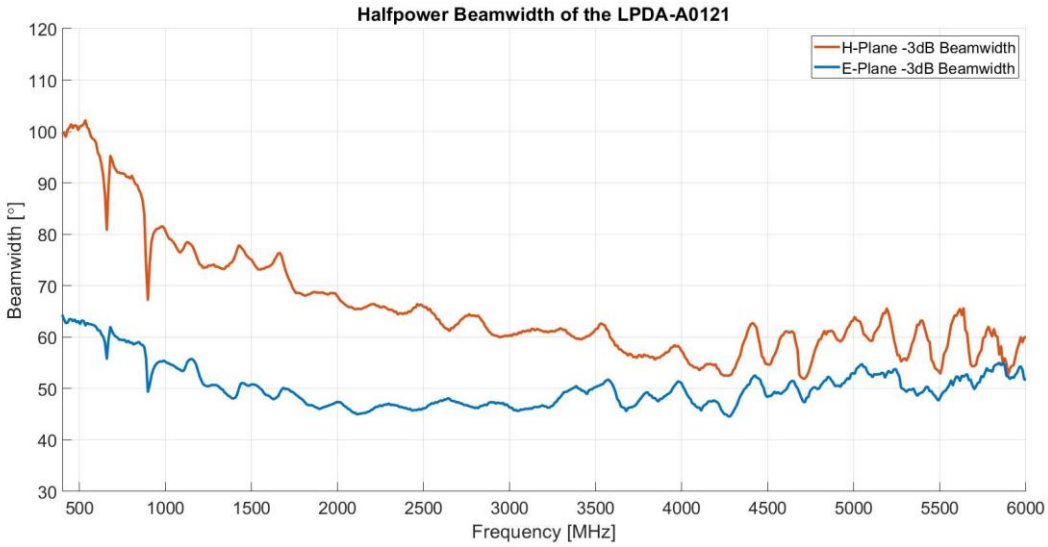
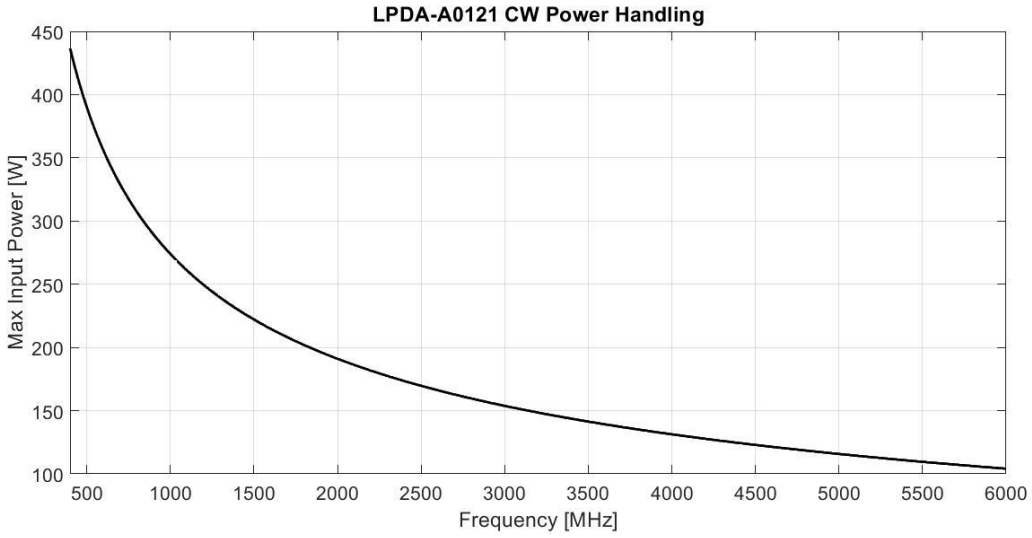
Beamwidth:



POWER HANDLING:



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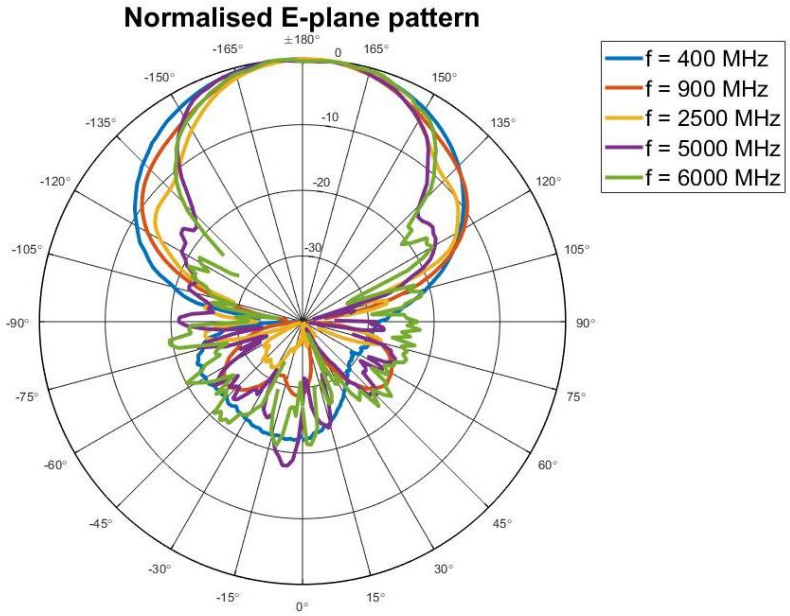
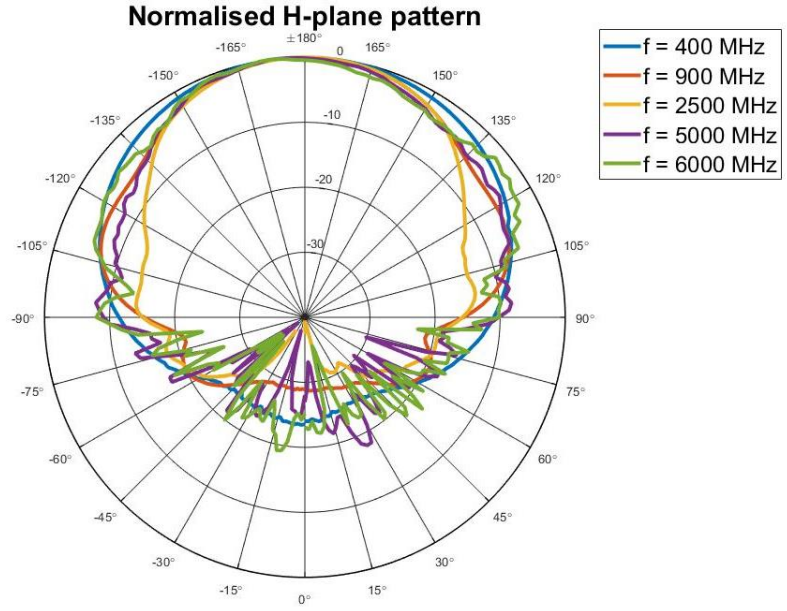
RADIATION PATTERNS:





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