


SPECIFICATIONS:

Product Codes:	
LPDA-A0121	Stand-off mount
LPDA-A0121-01	Mast mount
LPDA-A0121-02	Flange mount
LPDA-A0121-03	Mast mount with vertical and horizontal polarisation mount
Electrical:	
Frequency range	400 – 8000 MHz
VSWR	< 2.0:1
Nominal input impedance	50 Ω
Connector	N-type female
Feed power handling	See graph below
Gain	See graph below
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)	500 mm x 770 mm (incl. bracket)
Material	Aluminium, stainless steel, fibreglass
Total mass	
LPDA-A0121	4.4 kg
LPDA-A0121-01	3.95 kg
LPDA-A0121-02	3.4 kg
LPDA-A0121-03	<5 kg ¹
Mounting method:	
LPDA-A0121	4 x M8 Bolts
LPDA-A0121-01	Mast mount
LPDA-A0121-02	Flange mount
LPDA-A0121-03	Mast mount (Vertical or Horizontal)
MTBF	500,000 h
Environmental: designed to meet the following specifications	
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 °C (no icing)
Storage Temperature	-40 °C to +85 °C
Corrosion	Designed for MIL-STD-810F MIL-1250A

1 Estimated weight specifics

PRODUCT DESCRIPTION:

The LPDA-A0121 directional log-periodic dipole array (LPDA) is primarily designed for high-power applications. It covers the frequency band from 400 to 8000 MHz with a typical gain of 8 dBi over 80 % of the frequency band.

PRODUCT FEATURES:

- Wideband frequency 400 to 8000 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.

High-Power LPDA Antenna

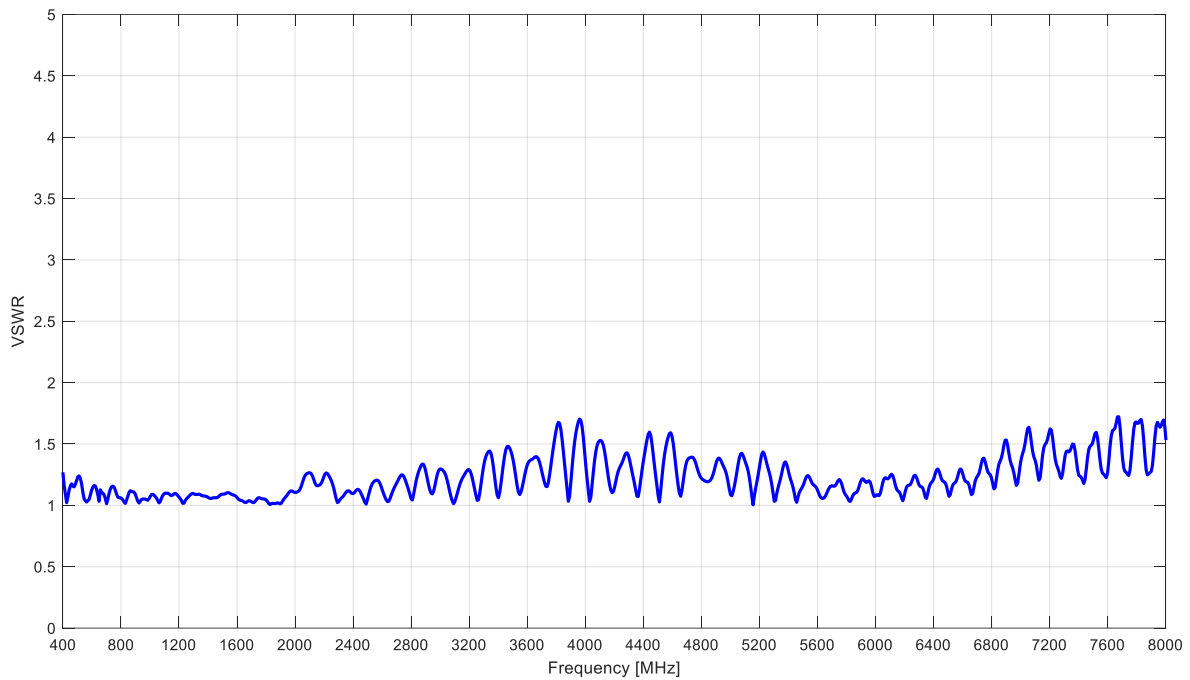
400 – 8000 MHz

Product Code: LPDA-A0121

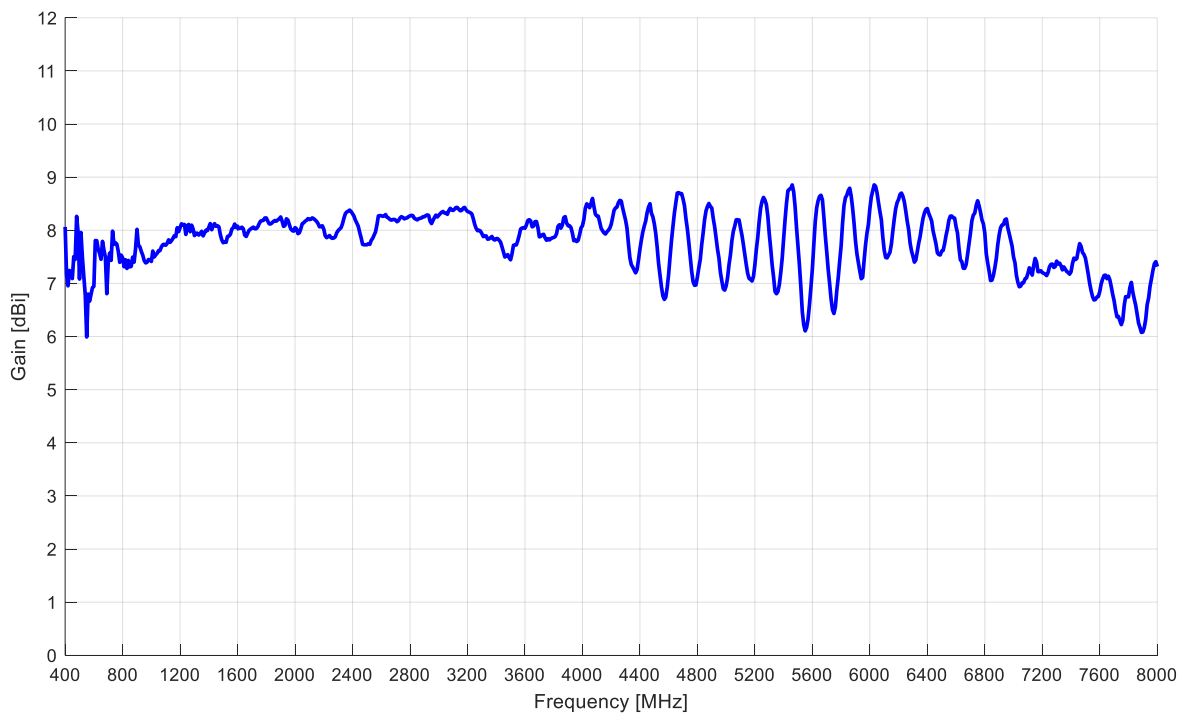
VERSION: 1.9

VSWR and Gain Graphs:

VSWR:



Gain:



High-Power LPDA Antenna

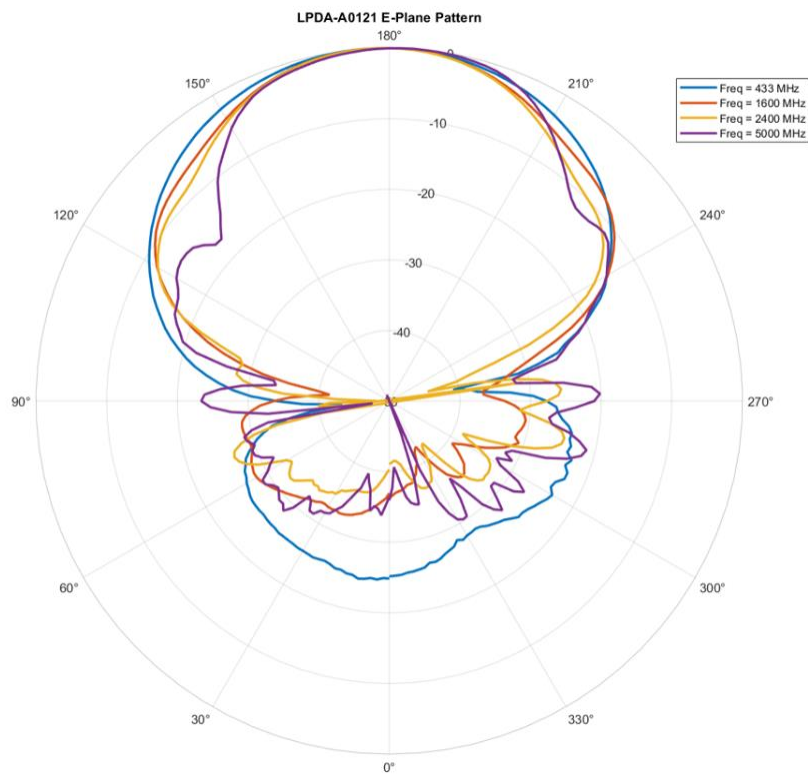
400 – 8000 MHz

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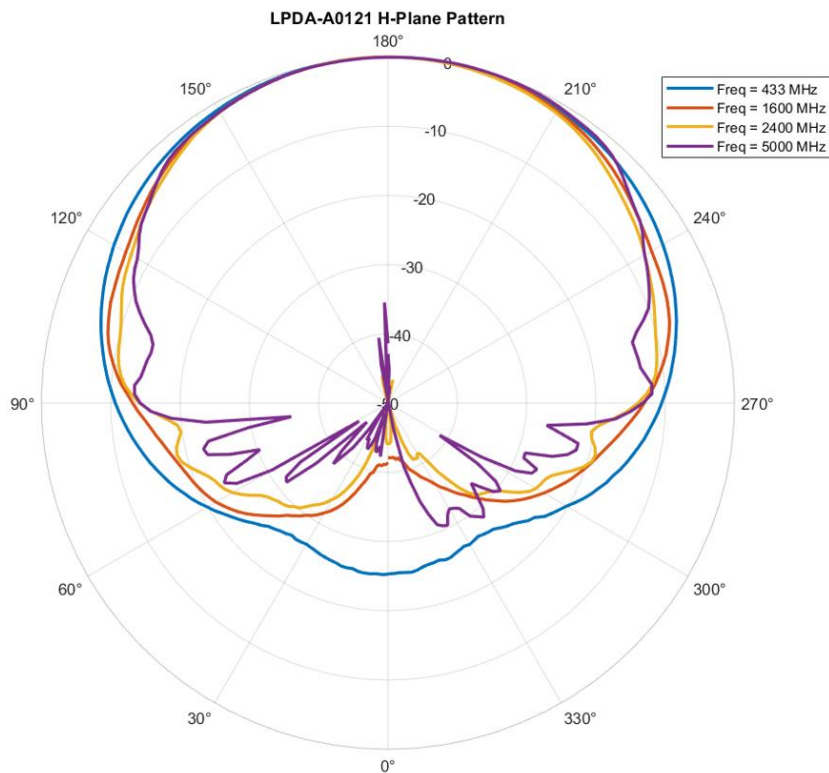
VERSION: 1.9

Radiation Patterns:

E-Plane:



H-Plane:



High-Power LPDA Antenna

400 – 8000 MHz

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Power handling:

