Wideband LPDA Antenna

800 – 6000 MHz

VERSION: 1.5

Product Code: LPDA-A0123

ELECTRICAL FEATURES:

- High feed power handling of 100 W @ 6 GHz
- Low VSWR
- High gain over the band
- Rugged design

APPLICATIONS:

- Wideband monitoring
- High-power transmissions

SPECIFICATIONS:

Product code:	
LPDA-A0123	7/16 (f) connector
LPDA-A0123-01	N-type (f) connector
Electrical:	
Frequency range	800 – 6000 MHz
VSWR	< 2.0:1
Nominal input impedance	50 Ω
Feed power handling	See graph below
Gain	> 10 dBi typical
Polarisation	Linear (vertical and horizontal)
Mechanical:	
Dimensions (d x l)	203 mm x 1000 mm including bracket
Weight	6 kg (including mounting bracket)
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

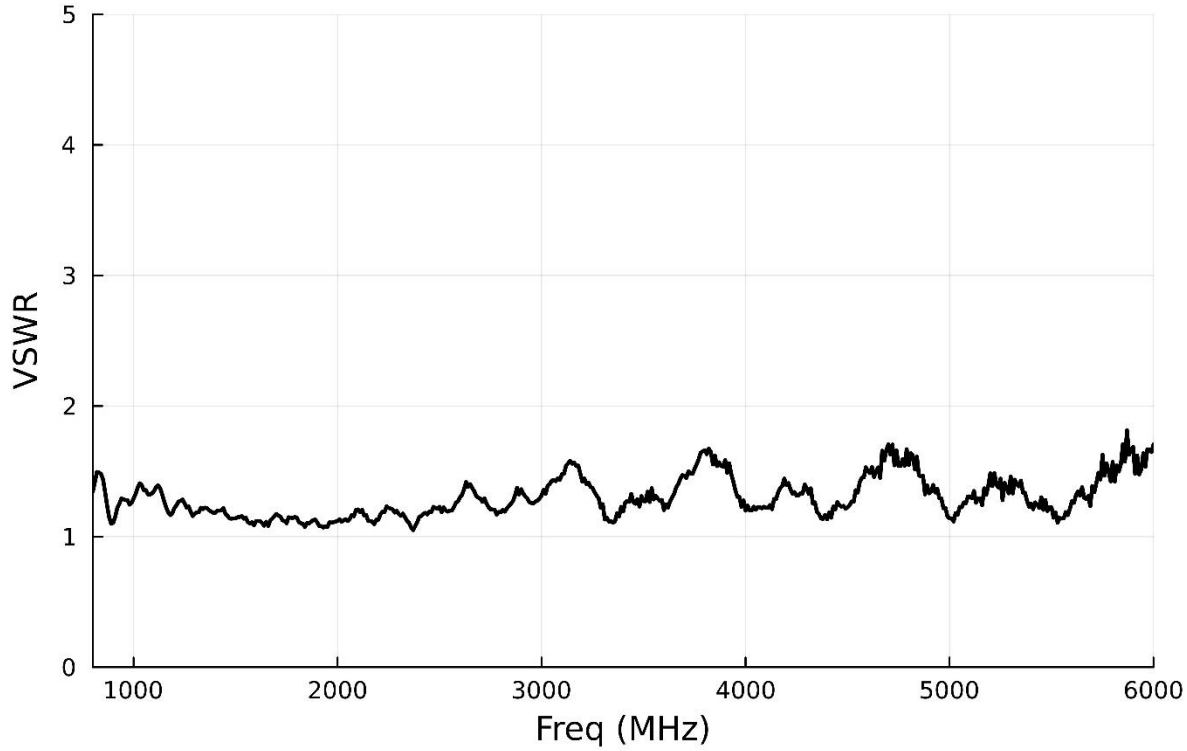
PRODUCT DESCRIPTION

This LPDA is a directional log-periodic dipole array that is primarily designed for high-powered transmit applications. It covers the frequency band of 800 to 6000 MHz at 100 W of power @ 6 GHz, with a typical gain of 10 dBi.

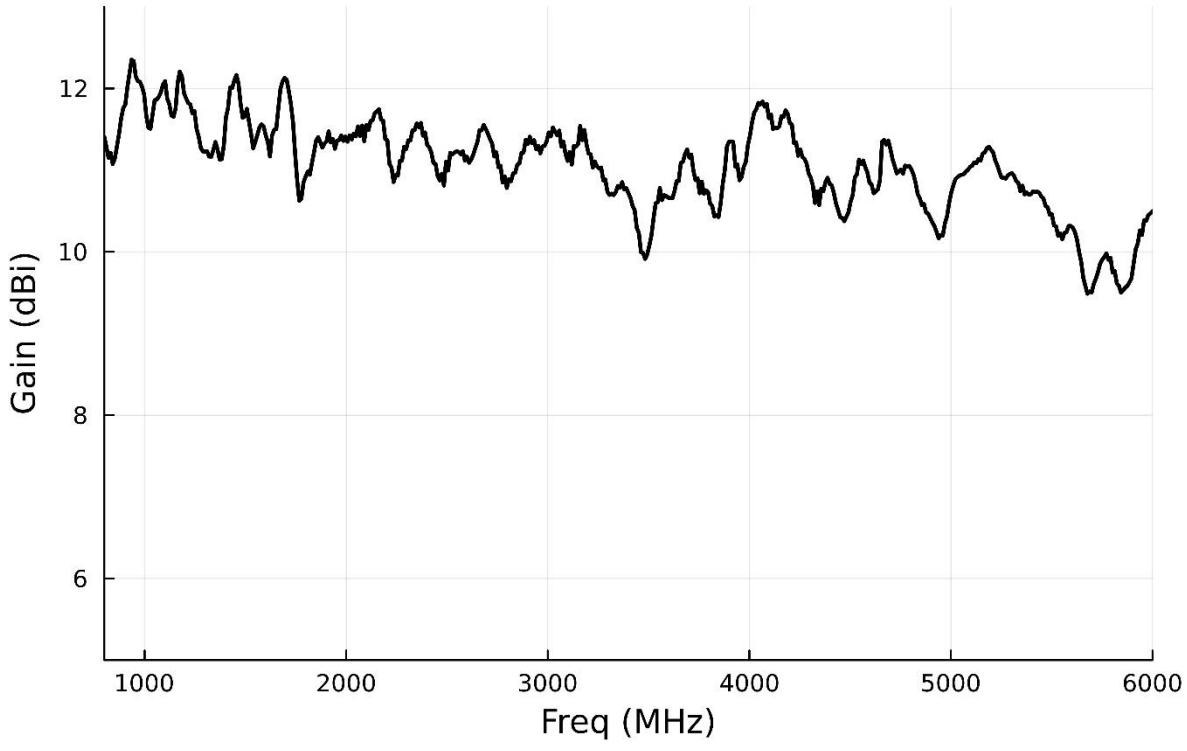
The antenna is easily mounted at the rear for either vertical or horizontal polarisation.

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

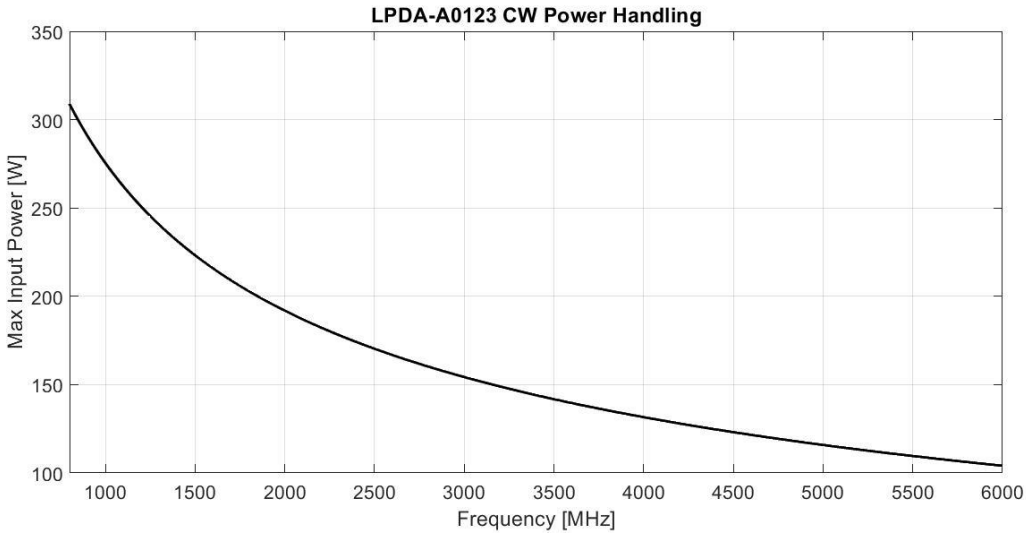
VSWR AND GAIN GRAPHS:
MEASURED VSWR:



MEASURED GAIN:



POWER HANDLING:



Wideband LPDA Antenna

800 – 6000 MHz

Product Code: LPDA-A0123 **VERSION: 1.5**

MEASURED RADIATION PATTERNS: