Wideband High-Power LPDA Antenna

800 – 6000 MHz

VERSION: 1.1

Product Code: LPDA-A0192

SPECIFICATIONS:

Product code:	
LPDA-A0192	7/16 (f) connector
LPDA-A0192-01	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

ELECTRICAL FEATURES:

- High feed power handling of 150 W @ 6 GHz
- 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 800 to 6000 MHz at 150 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.

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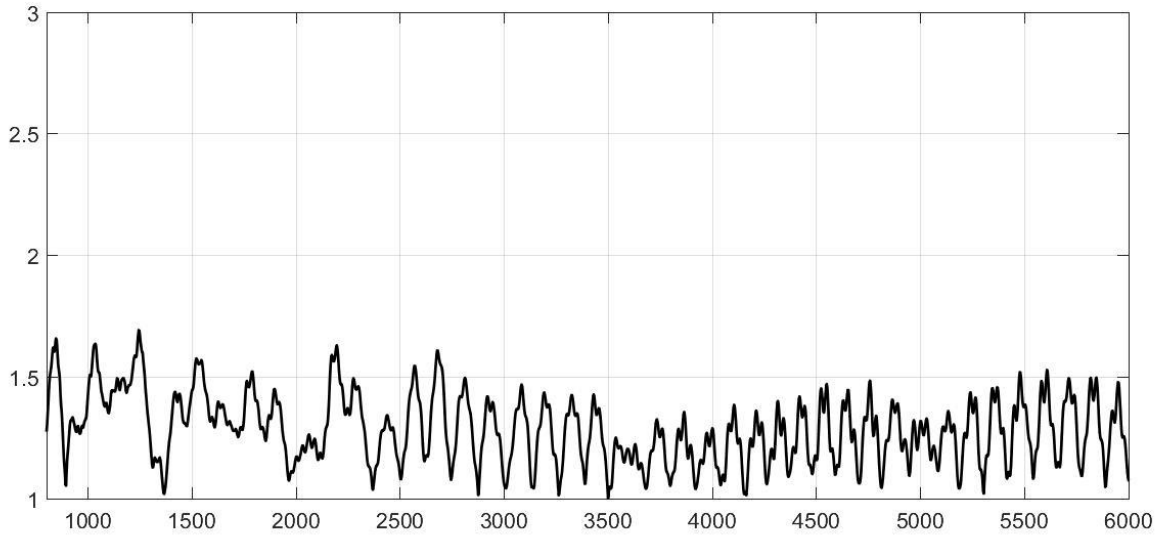
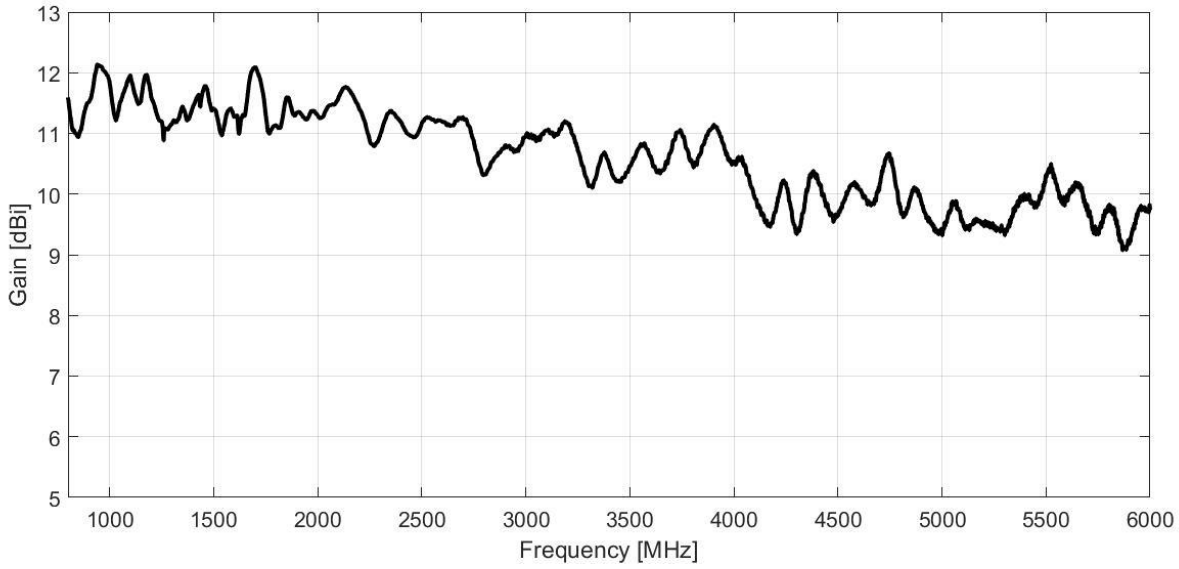
VSWR AND GAIN GRAPHS:

ESTIMATED VSWR:



ESTIMATED GAIN:



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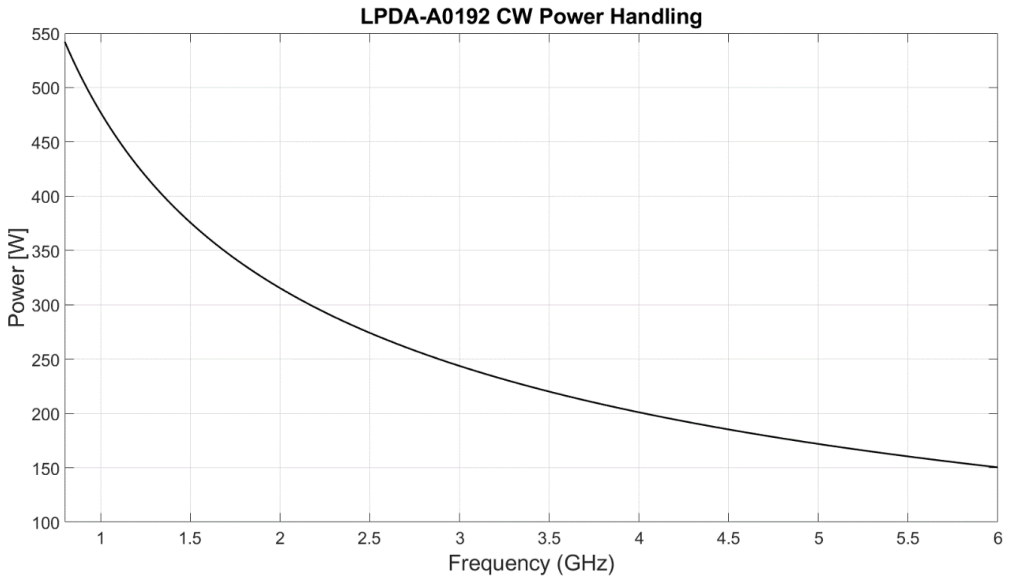
POWER HANDLING (CW):



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