

Monitoring LPDA Antenna

5 – 30 MHz

Product Code: LPDA-A0066

VERSION: 1.5

SPECIFICATIONS:



Electrical:	
Frequency range	5 – 30 MHz
VSWR	< 3.5:1 over 95% of the frequency band
Nominal input impedance	50 Ω
Feed power handling	Monitoring applications
Gain	5.5 dBi maximum over the frequency band 2 dBi minimum over the frequency band
E-plane 3 dB beamwidth	80° – 120°
H-plane 3 dB beamwidth	>130°
Polarisation	Adjustable: vertical and horizontal
Connectors	N-type female
Mechanical:	
Dimensions (w x l)	20.2 m x 10.3 m
Material	Aluminium, stainless steel, fibreglass
Total mass	200 kg
Environmental: designed to meet the following specifications	
Wind survival	100 km/h (theoretical)
Temperature range	- 30 °C to + 65 °C (no icing)
Water and dust resistance	IP65
Corrosion	Appropriate anti-corrosion measures are taken in the design of antenna for harsh environmental conditions

PRODUCT FEATURES:

- Wideband frequency 5 to 30 MHz
- VSWR < 3.5:1 for 95 % of the operating band
- Maximum gain of 5.5 dBi
- Rugged construction and compact packaging
- Easy to assemble and disassemble (< 60 minutes for four people)
- Also configurable for fixed applications

PRODUCT APPLICATIONS:

- Wideband monitoring

PRODUCT DESCRIPTION:

This directional log-periodic dipole array (LPDA-A0066) is primarily designed for monitoring applications. It covers a frequency band of 5 to 30 MHz with a maximum gain of 5.5 dBi. The polarisation is manually adjustable between vertical and horizontal without lowering the mast.

This antenna is supplied with a boom that breaks into three sections and all the elements can be removed and stored in a roll-up canvas bag for compact storage (elements longer than 3 m will be split). The antenna can be assembled and erected within 60 min by four people.

Monitoring LPDA Antenna

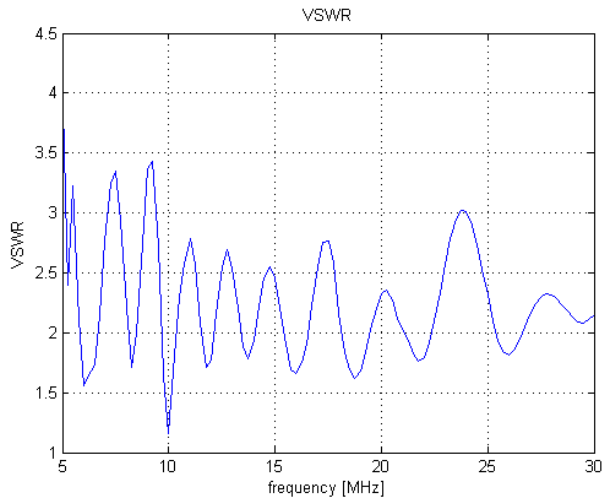
5 – 30 MHz

Product Code: LPDA-A0066

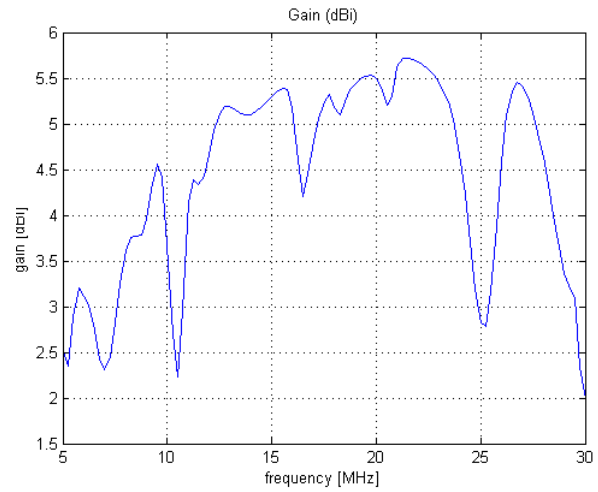
VERSION: 1.5

VSWR AND GAIN GRAPHS:

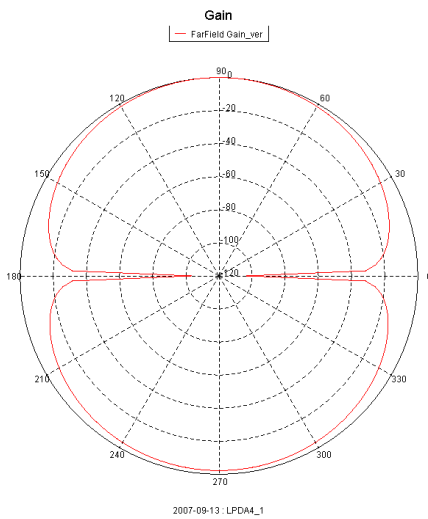
VSWR:



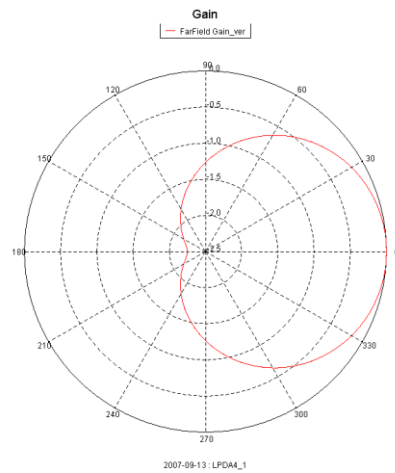
Gain:



E-plane plot at 5 MHz:



H-plane plot at 5 MHz:



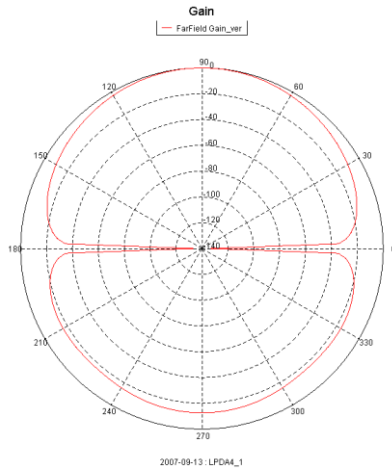
Monitoring LPDA Antenna

5 – 30 MHz

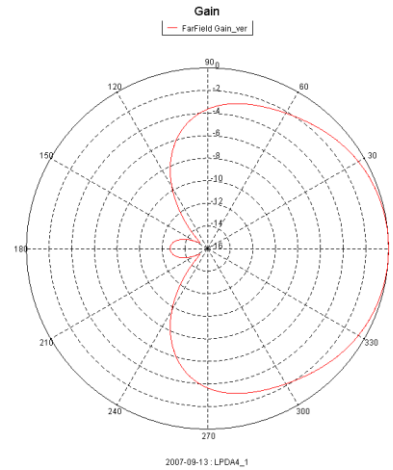
Product Code: LPDA-A0066

VERSION: 1.5

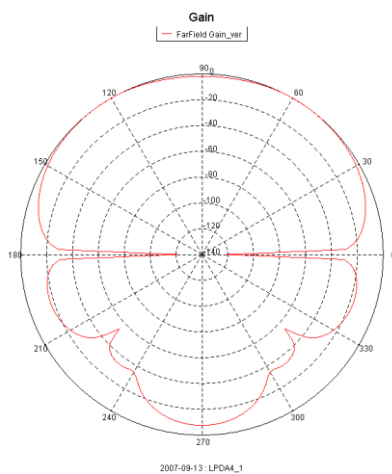
E-plane plot at 23 MHz:



H-plane plot at 23 MHz:



E-plane plot at 30 MHz:



H-plane plot at 30 MHz:

