Wideband LPDA Antenna

20 – 3000 MHz
Product Code: LPDA-A0033

VERSION: 3.6

SPECIFICATIONS:

Product versions:	
LPDA-A0033	Fixed, horizontal-polarisation product, no isolator pole
LPDA-A0033-01	Standard product, with isolator pole and polarisation adjustment capability
Electrical:	
Frequency range	20 – 3000 MHz
VSWR	< 2:1 over 90% of the frequency band VSWR increases from 32 MHz - 20 MHz
Nominal input impedance	50 Ω
Connector	7/16 female
Feed power handling	1000 W CW up to 1 GHz rolling off to 250 W CW at 3 GHz
Gain	6 dBi typical, -1.5 dBi minimum (see gain graph)
Beamwidth, E-Plane	-3dB at 55° typical
Beamwidth, H-Plane	-3dB at 100° typical
Polarisation	Linear (vertical or horizontal)
Mechanical:	
Dimensions (w x l)	5700 mm x 6200 mm
Weight	32 kg or 40 kg (-01 version)
Material	Aluminium, stainless steel
Environmental: designed to meet the following specification	
Wind survival	160 km/h calculated

ELECTRICAL FEATURES:

- Wideband frequency coverage from 20 MHz to 3000 MHz in a single antenna
- Low VSWR
- High gain of typically 6 dBi over 90% of the band
- Easy construction of detachable elements with spring fasteners
- Compact storage as unit is easily broken into smaller parts

MECHANICAL FEATURES:

- Rugged
- Quick assembly time: under 10 minutes for two people
- Compact packaging

APPLICATIONS:

- Wideband monitoring
- High-power applications

PRODUCT DESCRIPTION

The LPDA-A0033 is a directional log-periodic dipole array primarily designed for EW monitoring applications. It covers the 20 to 3000 MHz with a typical gain of 6 dBi over the frequency band. The gain reduces from 6 dBi at 50 MHz to 1.5 dBi at 20 MHz.

In the LPDA-A0033-01 version, the polarisation is adjustable between vertical and horizontal without lowering the mast. The LPDA-A0033 version is fixed for horizontal polarisation only.

The antenna breaks into three for compact storage, and can be fully erected from packaging by two people in less than 10 minutes.

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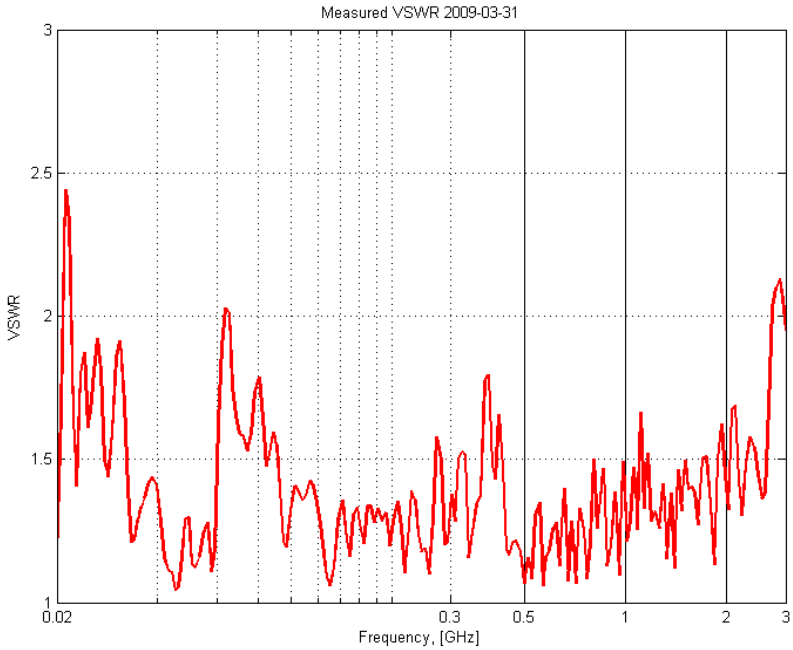
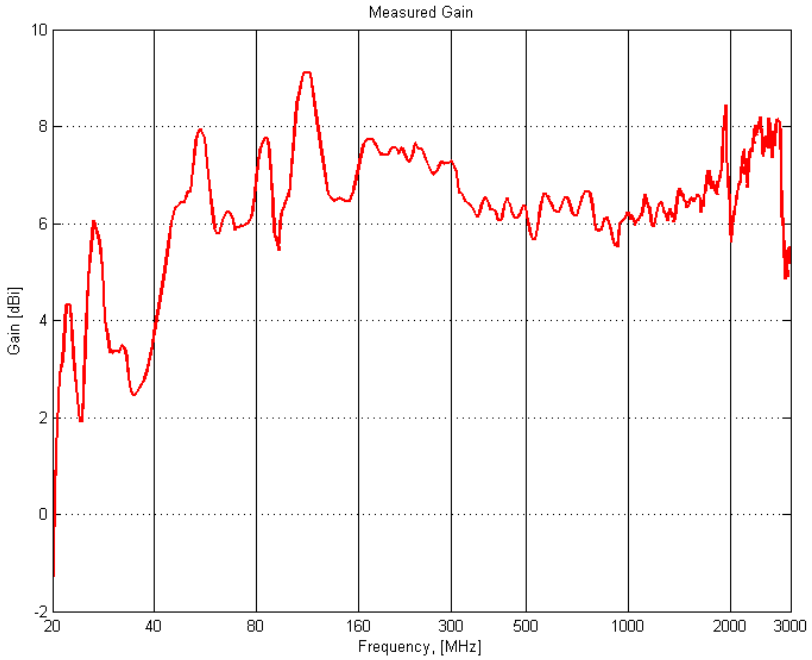
MEASURED VSWR:



MEASURED GAIN:



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