High-Power LPDA Antenna

800 – 3000 MHz

Product Code: LPDA-A0052

VERSION: 2.8

SPECIFICATIONS:

Electrical:	
Frequency range	800 – 3000 MHz
VSWR	< 2:1
Nominal input impedance	50 Ω
Feed power handling	500 W CW (0.8 – 2 GHz) 200 W CW (2 – 3 GHz)
Gain (free space)	12 dBi typical
Polarisation	Vertical
Connectors	7-16 female
E-plane beamwidth: 1 GHz 2 GHz 3 GHz	 36° 28° 22°
H-plane beamwidth: 1 GHz 2 GHz 3 GHz	 64° 68° 72°
Front-to-back ratio	> 20 dB
Mechanical:	
Dimensions (l x w x h)	< 720 mm x 80 mm x 470 mm
Material	Brass, stainless steel, fibreglass
Total mass	4.5 kg including mounting bracket
Environmental: designed to meet the following specifications	
Wind survival	160 km/h (theoretical)
Temperature range	- 30 ºC to + 70 ºC
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 800 to 3000 MHz
- VSWR < 2:1
- High gain: 12 dBi average
- Feed power handling:
  - 500 W CW (0.8 to 2 GHz)
  - 200 W CW (2 to 3 GHz)
- Rugged construction

PRODUCT APPLICATIONS:

- Wideband jamming
- Covers the GSM-800, 900, 1800, 1900 and 3G frequency bands

PRODUCT DESCRIPTION:

This directional log-periodic dipole array (LPDA) is primarily designed for high-power transmitting applications. It covers a frequency band of 800 to 3000 MHz with an average gain of 12 dBi. The antenna is supplied with hardware to mount onto a 60 mm mast.

The antenna consists of two high gain log-periodic antennas in a common radome. The antennas are connected in phase using a power divider. This allows high gain within a relatively small radome.

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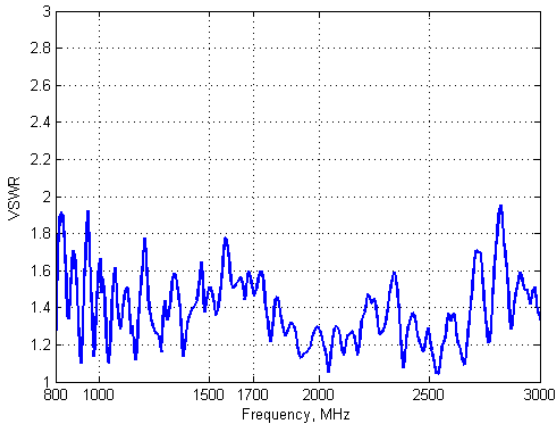
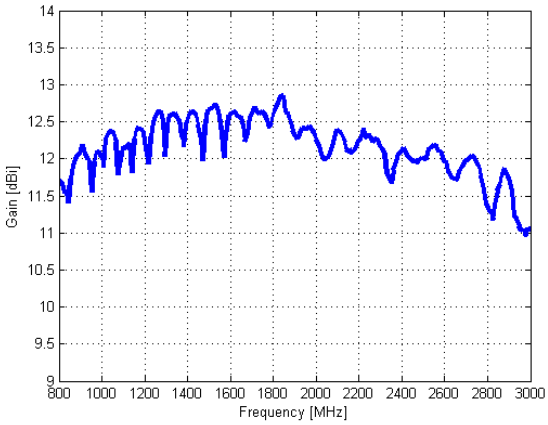
VSWR AND GAIN GRAPHS:

Typical VSWR:

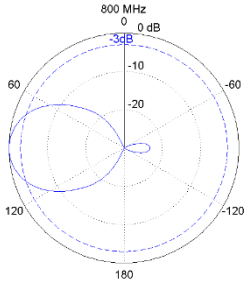


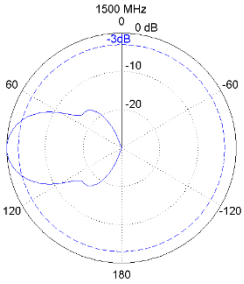
GAIN:

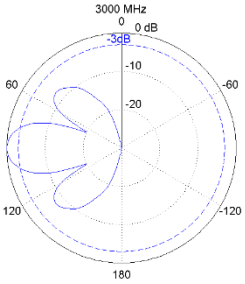


PATTERNS:

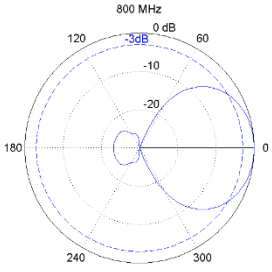
Radiation patterns (E-plane):

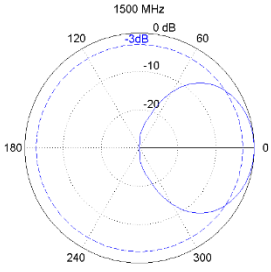


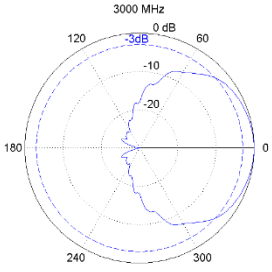




Radiation patterns (H-plane):







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