

VERSION: 1.3



#### **PRODUCT FEATURES:**

- Wideband frequency 800 to 3000 MHz
- VSWR < 2:1</li>
- High gain: 12 dBi average
  - Feed power handling:
    - 500 W CW (1 to 2 GHz)
    - 200 W CW (2 to 3 GHz)
- Rugged construction

### **PRODUCT APPLICATIONS:**

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

## High-Power LPDA Antenna Marine Version

### 800 – 3000 MHz Product Code: LPDA-A0105

### SPECIFICATIONS:

Electrical:	
Frequency range	800 – 3000 MHz
VSWR	< 2:1
Nominal input impedance	50 Ω
Feed power handling	500 W CW (1 – 2 GHz)
	200 W CW (2 – 3 GHz)
Gain (free space)	12 dBi average
Polarisation	Vertical
Connectors	7-16 female
E-plane beamwidth:	
1 GHz	36°
2 GHz	28°
3 GHz	22°
H-plane beamwidth:	
1 GHz	64°
2 GHz	68°
3 GHz	72°
Front-to-back ratio	> 20 dB
Mechanical:	
Dimensions (I x w x h)	< 720 mm x 80 mm x 470 mm
Material	Aluminium, 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 °C to + 65 °C
Water and dust resistance	IP65
Corrosion	Appropriate anti-corrosion
	measures are taken in the design
	of antenna for harsh
	environmental conditions

### **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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GAIN THE ADVANTAGE

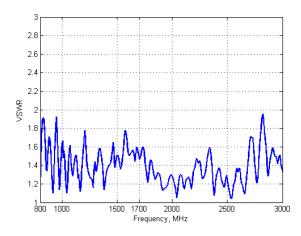
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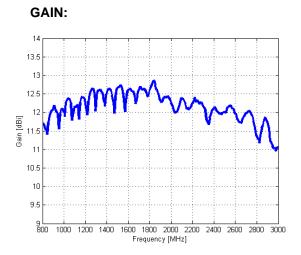
# **High-Power LPDA Antenna Marine Version**

### 800 – 3000 MHz Product Code: LPDA-A0105

### **VSWR AND GAIN GRAPHS:**

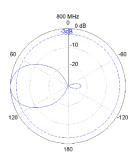
#### **Typical VSWR:**

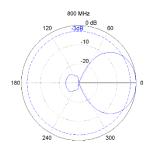




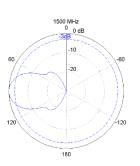
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### PATTERNS:



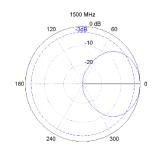


### Radiation patterns (E-plane):

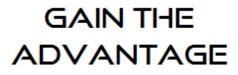




### Radiation patterns (H-plane):







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