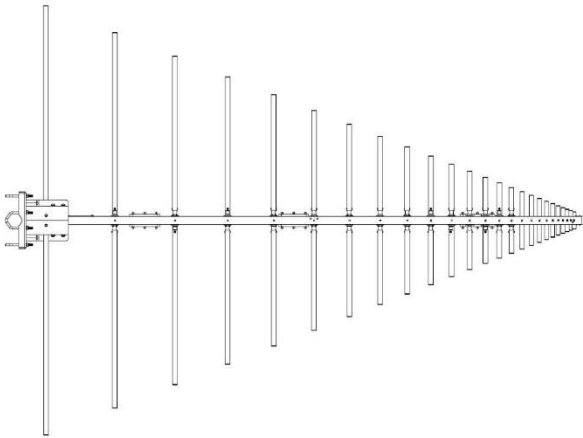


Wideband Maritime Log Periodic Dipole Array

100 – 1000 MHz

Product Code: LPDA-A0134



SPECIFICATIONS:

| | |
|---|---|
| Frequency range | 100 – 1000 MHz |
| VSWR | < 2.0:1 |
| Feed power handling | Receive only |
| Nominal input impedance | 50 Ω |
| Connector | N-type female |
| Gain | > 6 dBi (typically) |
| E-plane 3 dB beamwidth | 45° - 60° typical |
| H-plane 3 dB beamwidth | 90° - 100° typical |
| Polarisation | Linear (vertical or horizontal) |
| Mechanical: | |
| Dimensions (l x w) | 2247 mm x 1668 mm including bracket |
| Weight | 15 kg including bracket |
| Material | Aluminium, stainless steel and Tufnol, PTFE |
| Mounting method | Bracket for 50 mm – 100 mm poles |
| Environmental: designed to meet the following specifications | |
| Operating Temperature | -25 to 55 °C |
| Storage Temperature | -30 to 60 °C |
| Shock | MIL-STD-810F Method 516.5, Procedure I, (20g, 11ms) |
| Vibration | MIL-STD-810F Method 514.5, Procedure I, Category 21 |
| Humidity | MIL-STD-810F Method 507.4, (%90) |
| Rain | MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 |
| Icing | MIL-STD-810F Method 521.2, Procedure 1 |
| Solar Radiation | MIL-STD-810F Method 505.4, Procedure 1 (49C, 1120W/m ²) |
| Sand and Dust | MIL-STD-810F Method 510.4, Procedure 1 & 2 |
| Fungus | MIL-STD-810F Method 508.5 |
| Salt fog | MIL-STD-810F Method 509.4 |
| Corrosion | MIL STD-810F |
| Acceleration | MIL-STD-1399, 301A (Sea State 6) |
| Wind speed | 160 km/h |
| EMI/EMC | MIL-STD-461E |

PRODUCT DESCRIPTION:

The LPDA-A0134 is a directional log-periodic dipole array primarily designed for EW monitoring in maritime applications. It covers the 100 – 1000 MHz frequency band with a typical gain of greater than 6 dBi.

Based on the more tactical LPDA's that are on offer the LPDA-A0134 features an upgraded mechanical and environmental design to ruggedize the antenna for marine use.

RELATED PRODUCT:

LPDA-A0135: mounting at the centre with isolating pole

PRODUCT FEATURES:

- High gain
- Low and stable VSWR
- Vertical or horizontal polarisation
- Wide frequency range
- Suitable for maritime applications
- Balanced feed point

Wideband Maritime Log Periodic Dipole Array

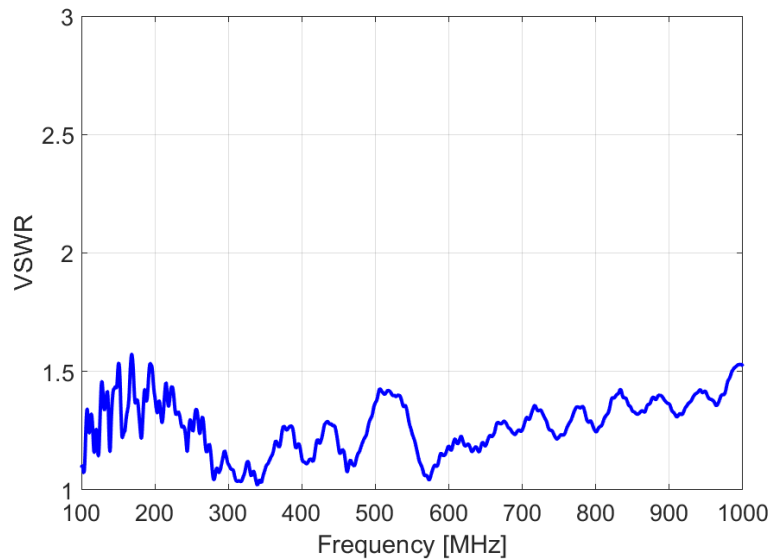
100 – 1000 MHz

Product Code: LPDA-A0134

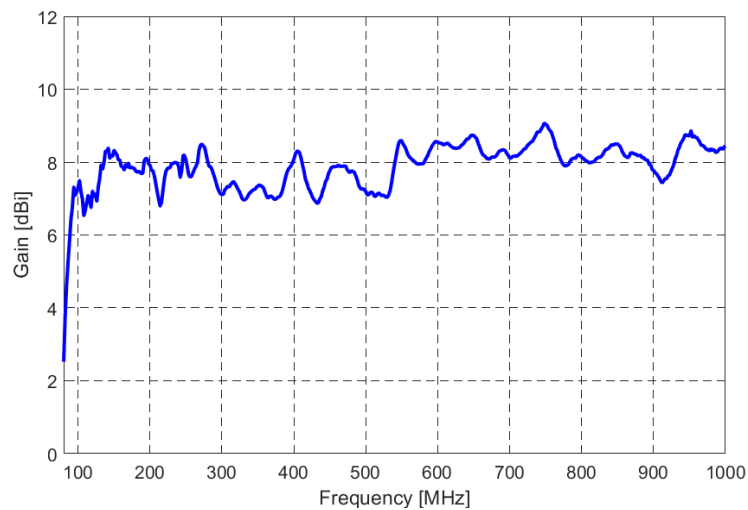
VERSION: 1.6

VSWR, GAIN GRAPHS AND RADIATION PATTERNS:

VSWR:



Gain:



Wideband Maritime Log Periodic Dipole Array

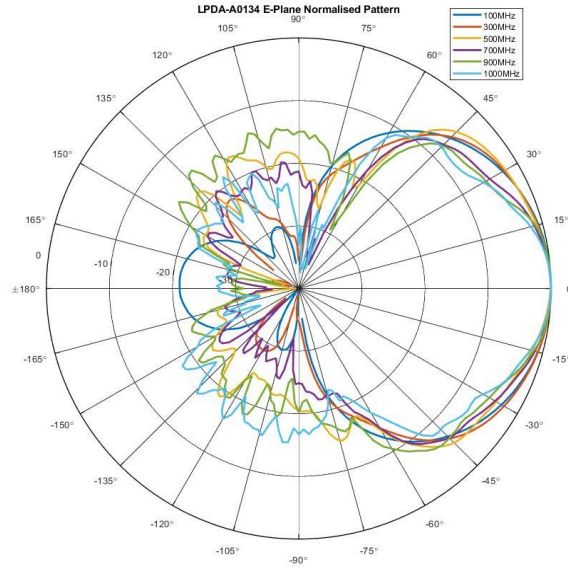
100 – 1000 MHz

Product Code: LPDA-A0134

VERSION: 1.6

Radiation patterns:

E-plane:



H-plane:

