

Wideband Maritime Log Periodic Dipole Array

100 – 1000 MHz

Product Code: LPDA-A0134

VERSION: 1.7

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

AUTHORIZED USA DISTRIBUTION BY:

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 Lexington, Massachusetts
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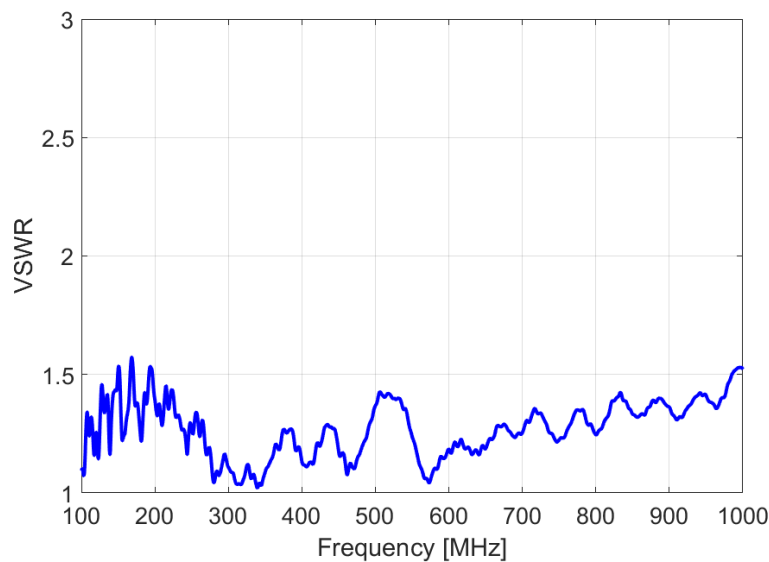
100 – 1000 MHz

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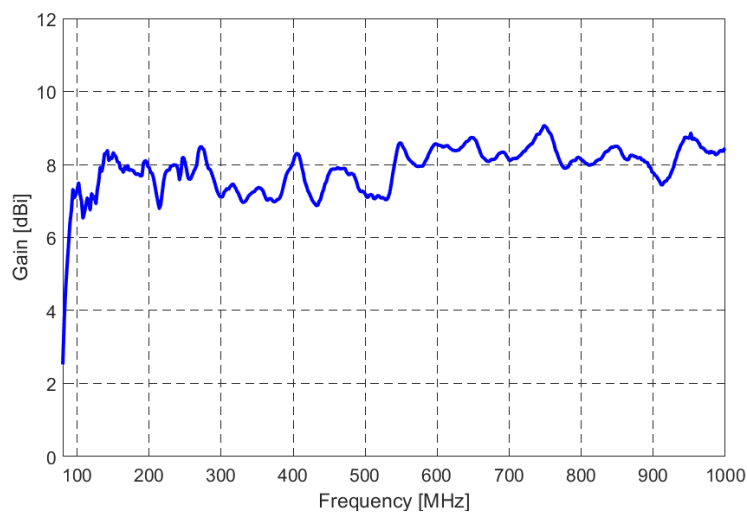
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VSWR, GAIN GRAPHS AND RADIATION PATTERNS:

VSWR:



Gain:



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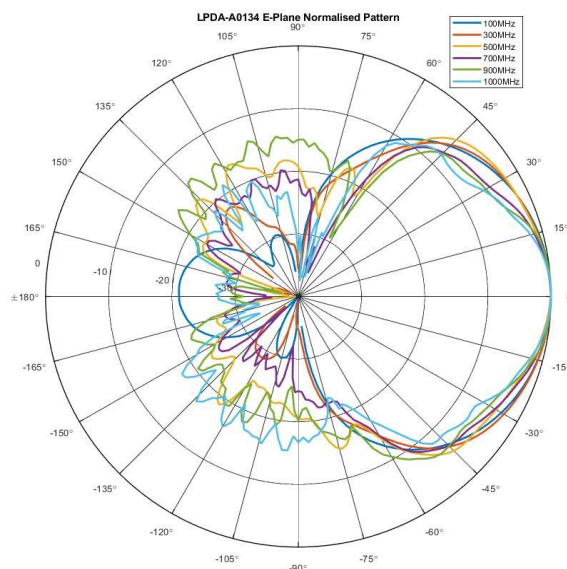
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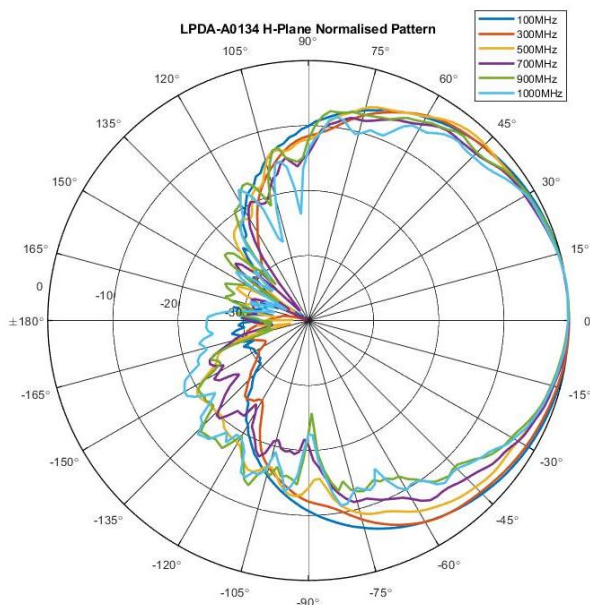
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Radiation patterns:

E-plane:



H-plane:



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