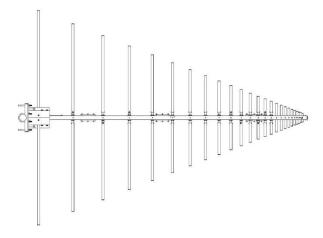


VERSION: 1.6





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.

Wideband Maritime Log Periodic Dipole Array

<u>100 – 1000 MHz</u> Product Code: LPDA-A0134

SPECIFICATIONS:

-	400 4000 100
Frequency range	100 – 1000 MHz
VSWR	< 2.0:1
Feed power handling	Receive only
Nominal input	50 Ω
impedance	
Connector	N-type female
Gain	> 6 dBi (typically)
E-plane 3 dB	45° - 60° typical
beamwidth	
H-plane 3 dB	90º - 100º typical
beamwidth	
Polarisation	Linear (vertical or horizontal)
Mechanical:	
Dimensions (I 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: designe	ed 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	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90)
Humidity Rain	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4,
*	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90)
*	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4,
Rain	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2
Rain	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 MIL-STD-810F Method 521.2,
Rain	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 MIL-STD-810F Method 521.2, Procedure 1 MIL-STD-810F Method 505.4,
Rain	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 MIL-STD-810F Method 521.2, Procedure 1
Rain Icing Solar Radiation	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 MIL-STD-810F Method 521.2, Procedure 1 MIL-STD-810F Method 505.4, Procedure 1 (49C, 1120W/m^2)
Rain Icing Solar Radiation	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 MIL-STD-810F Method 521.2, Procedure 1 MIL-STD-810F Method 505.4, Procedure 1 (49C, 1120W/m^2) MIL-STD-810F Method 510.4,
Rain Icing Solar Radiation Sand and Dust	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 MIL-STD-810F Method 521.2, Procedure 1 MIL-STD-810F Method 505.4, Procedure 1 (49C, 1120W/m^2) MIL-STD-810F Method 510.4, Procedure 1& 2
Rain Icing Solar Radiation Sand and Dust Fungus	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 MIL-STD-810F Method 521.2, Procedure 1 MIL-STD-810F Method 505.4, Procedure 1 (49C, 1120W/m^2) MIL-STD-810F Method 510.4, Procedure 1& 2 MIL-STD-810F Method 508.5
Rain Icing Solar Radiation Sand and Dust Fungus Salt fog	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 MIL-STD-810F Method 521.2, Procedure 1 MIL-STD-810F Method 505.4, Procedure 1 (49C, 1120W/m^2) MIL-STD-810F Method 510.4, Procedure 1& 2 MIL-STD-810F Method 508.5 MIL-STD-810F Method 509.4 MIL STD-810F
Rain Icing Solar Radiation Sand and Dust Fungus Salt fog Corrosion Acceleration	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 MIL-STD-810F Method 521.2, Procedure 1 MIL-STD-810F Method 505.4, Procedure 1 (49C, 1120W/m^2) MIL-STD-810F Method 510.4, Procedure 1& 2 MIL-STD-810F Method 508.5 MIL-STD-810F Method 508.5
Rain Icing Solar Radiation Sand and Dust Fungus Salt fog Corrosion	Procedure I, Category 21 MIL-STD-810F Method 507.4, (%90) MIL-STD-810F Method 506.4, Procedure 1 and Procedure 2 MIL-STD-810F Method 521.2, Procedure 1 MIL-STD-810F Method 505.4, Procedure 1 (49C, 1120W/m^2) MIL-STD-810F Method 510.4, Procedure 1& 2 MIL-STD-810F Method 508.5 MIL-STD-810F Method 509.4 MIL-STD-810F Method 509.4 MIL STD-810F MIL-STD-1399, 301A (Sea State 6)

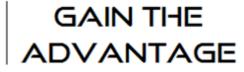
RELATED PRODUCT:

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

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PAGE 1 of 3

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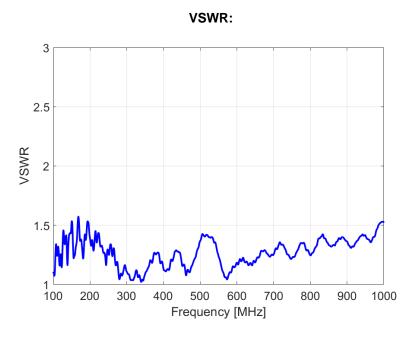
Wideband Maritime Log Periodic Dipole Array

100 – 1000 MHz

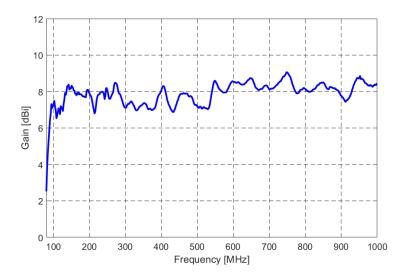
Product Code: LPDA-A0134

VERSION: 1.6

VSWR, GAIN GRAPHS AND RADIATION PATTERNS:



Gain:



GAIN THE ADVANTAGE

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Wideband Maritime Log Periodic Dipole Array

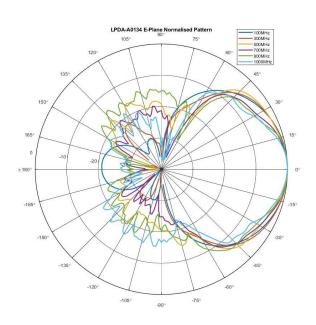
100 – 1000 MHz

Product Code: LPDA-A0134

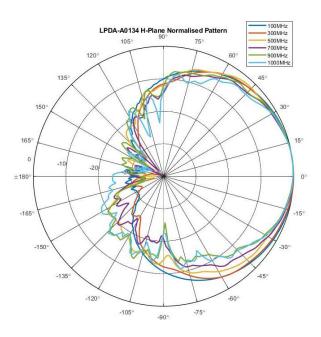
VERSION: 1.6

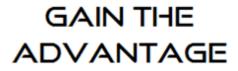
Radiation patterns:

E-plane:



H-plane:





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