

High-Power LPDA Antenna Model No.: SRFS- LPDA- A0114

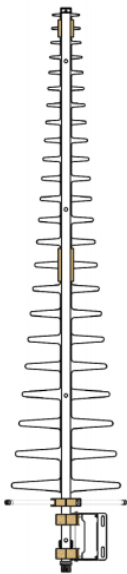
Product Description

The LPDA-A0114 is a directional log-periodic dipole array that is primarily designed for high-powered transmit applications. It covers the frequency band of 500 to 1000 MHz at 2000 W of power, with a typical gain of > 10 dBi. The antenna can be adjusted easily for horizontal or vertical polarization via a swivel mounting bracket on a mast.

This antenna can be customized if required, for different frequency ranges.

Product Features

- High feed power handling of 2 kW
- Low VSWR
- High gain over the band



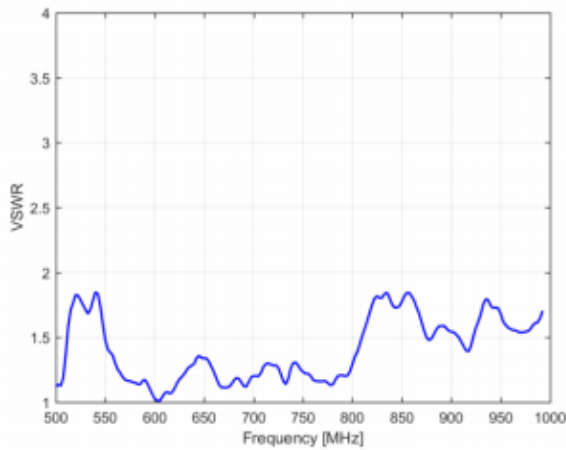
Electrical Specifications	
Frequency range	500 – 1000 MHz
VSWR	< 2:1
Nominal input impedance	50 Ω
Connector	7/16 female
Feed power handling	2000 W
MTBF	50,000 h
Gain on horizon	> 10 dBi typical
Polarization	Adjustable (vertical and horizontal)
Mechanical Specifications	
Dimensions (l x w x d)	1650 mm x 320 mm x 250 mm
Total mass	4.6kg
Material	Aluminium, stainless steel, fibreglass
Mounting method	U-bolts supplied for 60 – 100 mm masts
Environmental Specifications	
Wind survival	160 km/h (calculated)
Qualification	Designed to comply with applicable parts of MIL-STD810E
Temperature (operational)	-40 °C to + 55 °C (no icing)



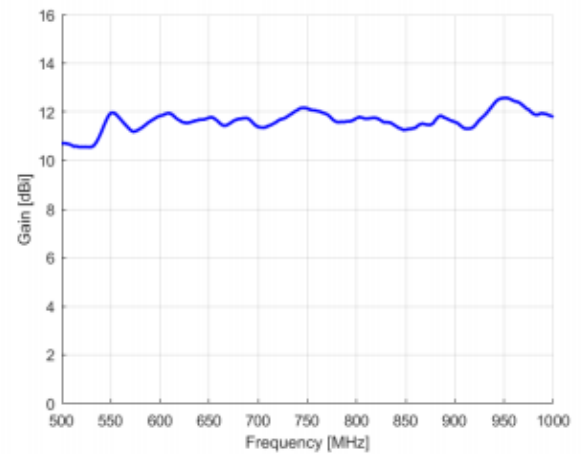
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VSWR AND GAIN GRAPHS:

Measured VSWR:

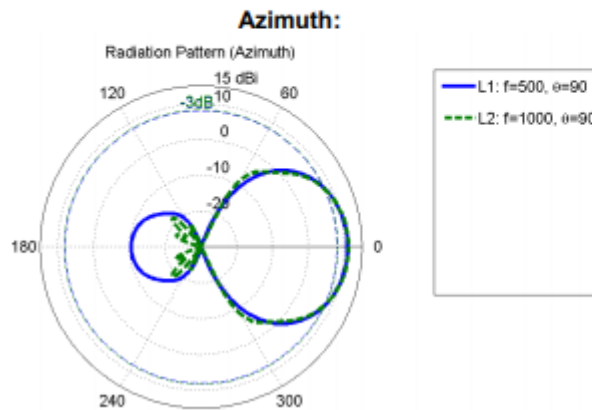


Measured GAIN:



RADIATION PATTERNS:

E-PLANE PATTERN:



H-PLANE PATTERN:

