

High-Power LPDA Model no.: SRFS- LPDA-A0113

Product Description

The LPDA-A0113 is a directional log-periodic dipole array that covers the frequency band 100 to 500 MHz at 2 kW of feed power with a typical gain of 7 dBi. Off-center mounted on a supplied isolation pole. Polarization is adjustable between vertical and horizontal via the mounting bracket. This antenna can be customized for frequencies in a wideband of frequencies with excellent gain, VSWR and higher power handling.

Product Features

- Low VSWR and high gain over the frequency band
- High feed power handling of 1 kW
- Vertical and horizontal polarization
- Easy to assemble and disassemble
- Rugged construction

Electrical Specifications	
Frequency range	100 – 500 MHz
VSWR	< 2.5 :1
Nominal input impedance	50 Ω
Gain on horizon	7 dBi typical
Elevation	3 dB beamwidth 60°
Azimuth	3 dB beamwidth 110°
Polarization	Linear, adjustable vertical and horizontal
MTBF	50,000 hrs
Feed power handling	2 kW
Connector	7/16 female
Mechanical Specifications	
Dimensions (w x l)	1700 mm x 1820 mm
Packed dimensions	Length: 2450 mm excl. mounting Width: 200 mm Height: 200 mm
Material	Aluminum, stainless steel, fiberglass
Mounting Method	Off – centre on 1.1 m isolation pole (supplied)
Environmental Specifications	
Wind survival	160 km/h (calculated)
Temperature operational	- 30 °C (no icing) to + 65 °C



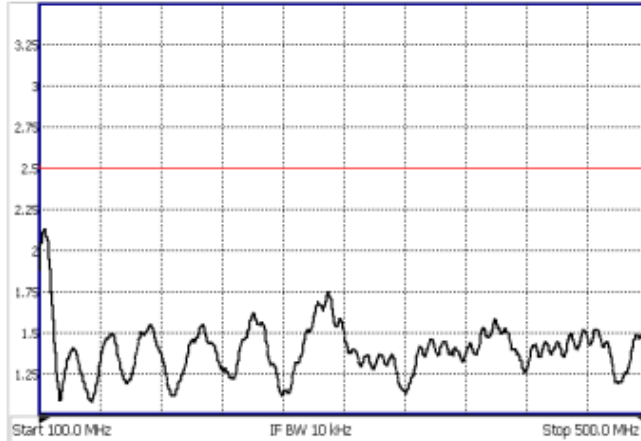
SRFS TELEINFRA



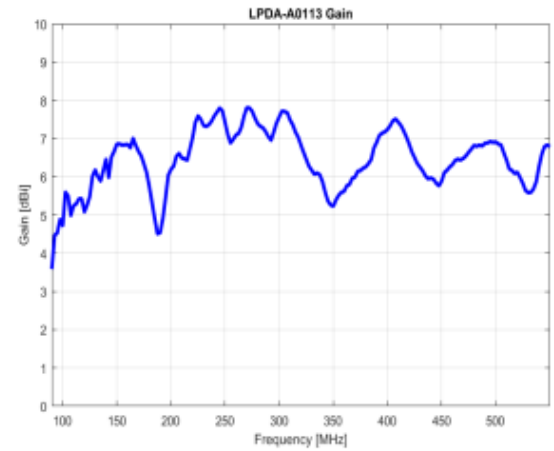
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VSWR AND GAIN GRAPHS:

Typical VSWR:



MEASURED GAIN:

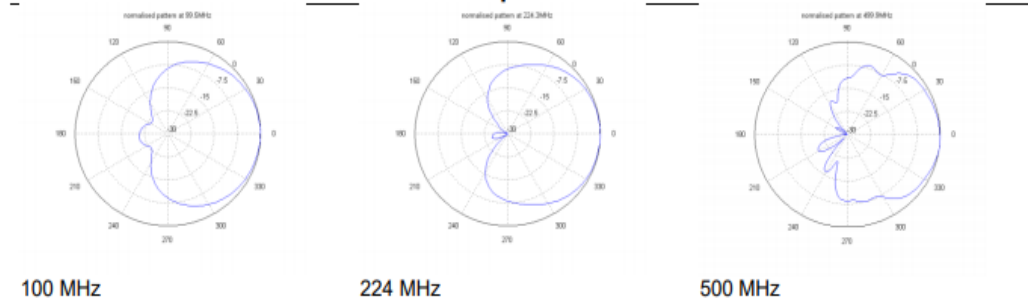


Normalised radiation patterns:

E-plane:



H-plane:



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