

Very High-Power LPDA Model no.:SRFS-LPDA-A0101

Product Description

The high-powered LPDA-A0101 is a directional log-periodic dipole array primarily designed for EW applications. It covers the 20 to 100 MHz frequency range, at 5 kW of power, with 6 dBi of gain, or a 80° to 100° H-plane beamwidth. The polarization is adjustable between vertical and horizontal without lowering the mast. The antenna breaks into three sections for compact storage, and can be fully erected from packaged by two people in under 30 minutes. This antenna can be used for reception at frequencies up to 400 MHz with reasonable gain.

PRODUCT FEATURES:

- Low frequency coverage up to 100 MHz in a single antenna
- Low VSWR
- High gain of 6 dBi over the band
- Very high feed power handling of 5 kW
- Easy construction of detachable elements with spring fasteners
- Compact storage as unit is easily broken into smaller parts

Electrical Specifications	
Frequency range	20 – 100 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Connector	1 5/8" female
Feed power handling	5 kW
MTBF	> 50,000 hrs
Gain	6 dBi typical, -2 dBi minimum from 20 – 30 MHz
E-plane 3 dB beamwidth 55°	E-plane 3 dB beamwidth 55°
H-plane 3 dB beamwidth 100°	H-plane 3 dB beamwidth 100°
Polarization Adjustable	Adjustable (vertical and horizontal)
Mechanical Specifications	
Dimensions	8708 mm x 7036 mm
Material	Aluminum, stainless steel, Fibre glass
Mounting method	Bracket onto a mast
Environmental Specifications	
Wind survival	160 km/h
Temperature (operational)	- 40 °C to +55 °C (no icing)

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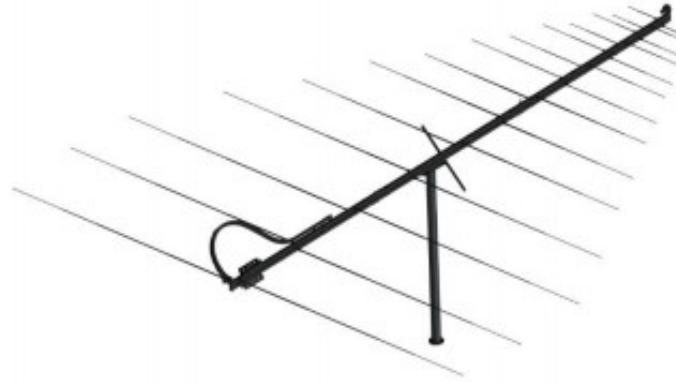
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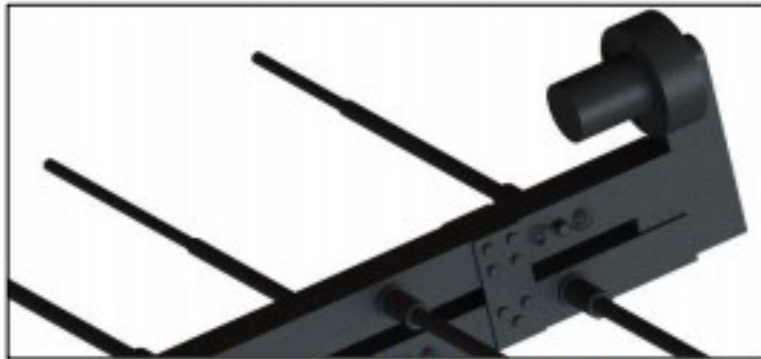
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Close up view of cable management



Close up view of connector interface



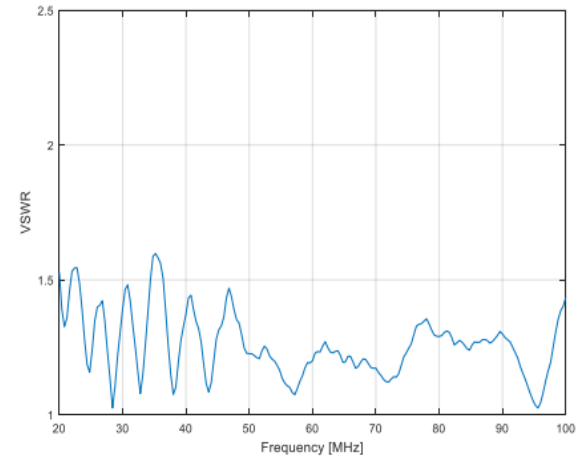
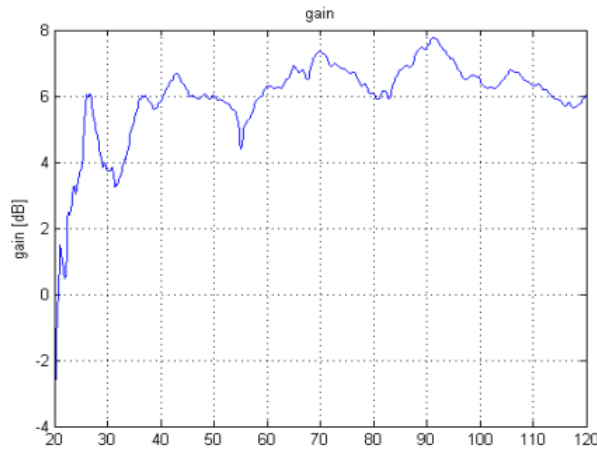
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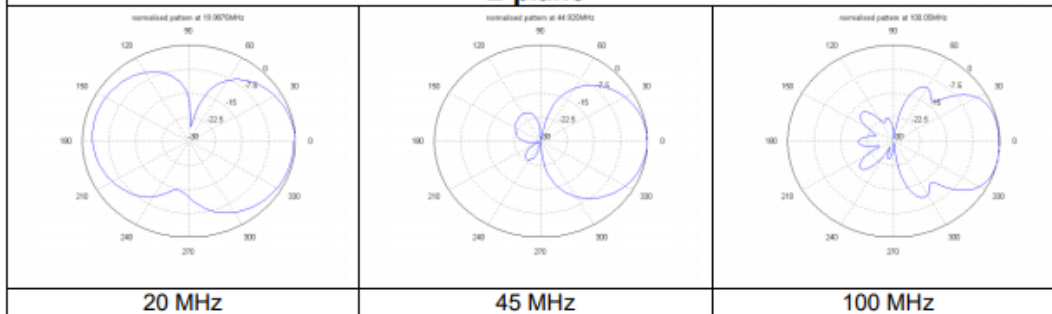
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VSWR & GAIN GRAPHS:



Normalised radiation patterns:

E-plane



H-plane

