

## Wideband LPDA Model no.: SRFS- LPDA-A0117

### Product Description

The LPDA-A0117 is a directional log-periodic dipole array primarily designed for EW monitoring and high-power applications. It covers the 30 to 1000 MHz band with a typical gain of 4 dBi. The antenna can be configured for horizontal or vertical polarization. The antenna requires an isolated mast for vertical polarization, to prevent the cable from affecting it. The antenna is disassembled for ease of shipping. It is bolted together with the supplied tools.

### Product Features

- Wide frequency coverage
- Low VSWR
- Moderate gain
- High-power capability
- High strength antenna for extreme environments

### Electrical Specifications

Frequency range	30 – 1000 MHz
VSWR	< 2.0:1 typical
Nominal input impedance	50 $\Omega$ DC grounded
Connector	N-type female
Feed power handling	1 kW
Gain	4 dBi typical
E-plane	3 dB beamwidth $\geq 65^\circ$
H-plane	3 dB beamwidth $\geq 110^\circ$
Front-to-back	$\geq 15$ dB
Polarization	Vertical/horizontal

### Mechanical Specifications

Dimensions	Length: 3500 mm Height: 4500 mm Width: 200 mm
Material	2300 mm x 400 mm x 400 mm
Packed dimensions	2300 mm x 400 mm x 400 mm
MTBF	50000 hours

### Environmental Specifications

Wind survival	200 km/h when guyed
Effective wind area	0.8 m <sup>2</sup>
Water and dust resistance	IP66
Temperature (operational)	-35 $^\circ$ C to 71 $^\circ$ C
Temperature (storage)	-35 $^\circ$ C to 71 $^\circ$ C
Exposed materials	Aluminium, stainless steel, tufnol



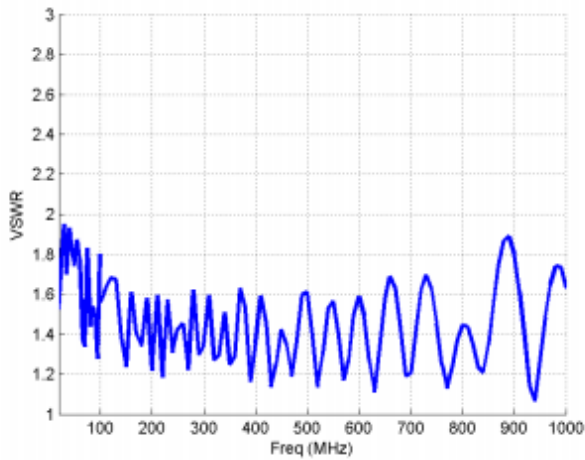
# SRFS TELEINFRA



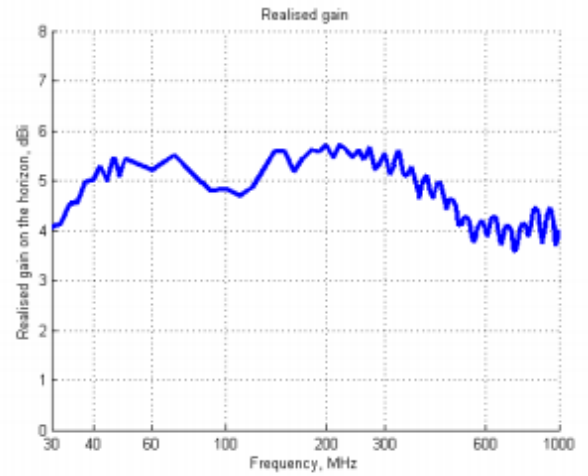
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## VSWR AND GAIN GRAPHS:

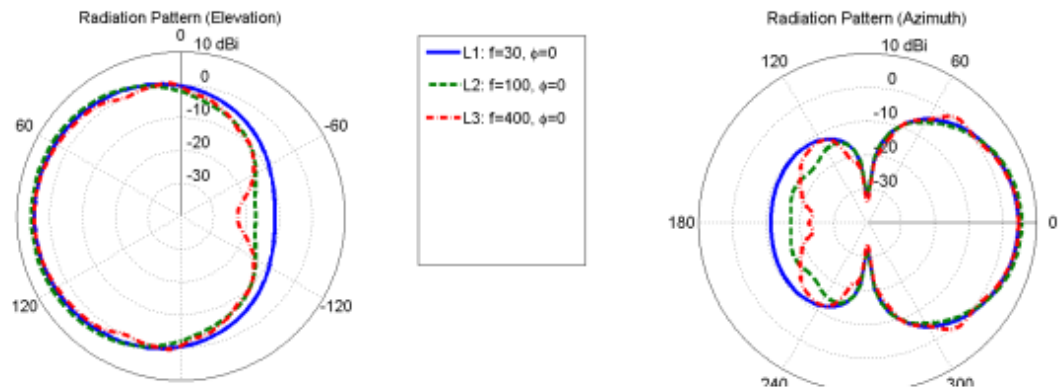
### SIMULATED VSWR:



### SIMULATED GAIN:



## RADIATION PATTERNS:



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