

High-Power LPDA Antenna Model no.: SRFS- LPDA-A0077

Product Description

This high-powered LPDA is a directional log-periodic dipole array primarily designed for EW applications. It covers the frequency band from 20 to 520 MHz. It can handle a continuous input power of 1000 W and has a gain greater than 5 dBi. The polarization is adjustable between vertical and horizontal. The antenna can be broken down into pieces smaller than 2.7 m in length which allows compact storage. The antenna can be erected from packaging in less than 10 minutes.

PRODUCT FEATURES:

- Low frequency coverage up to 520 MHz in a single antenna
- Low VSWR
- High gain of 5 dBi over most of the band
- High feed power handling of 1000 W
- Easy construction of detachable elements with spring fasteners
- Compact storage as unit is easily broken into smaller parts

Electrical Specifications	
Frequency range	20 – 520 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Connector	7/16 female
Feed power handling	1000 W continuous
Gain	> 5 dBi, 30 – 520 MHz > 2.5 dBi, 20 – 30 MHz
E-plane	3 dB beamwidth ≥ 60°
H-plane	3 dB beamwidth ≥ 75°
Polarization	Adjustable with deployment
Front-to-back ratio	≥ 12 dB, 30 – 520 MHz ≥ 6 dB, 20 – 30 MHz
Earth connection	Earth connector allowing to connect a grounding cable
Mechanical Specifications	
Dimensions (w x l)	7000 mm x 5200 mm
Material	Aluminium, stainless steel, fibreglass
Mounting method	Bracket onto a mast
Packaging	Transportable bag or crate
MTBF	100,000 h
Environmental Specifications	
Wind survival	120 km/h (ice ≤ 3 mm)
Temperature (operational)	According to Stanag 2895

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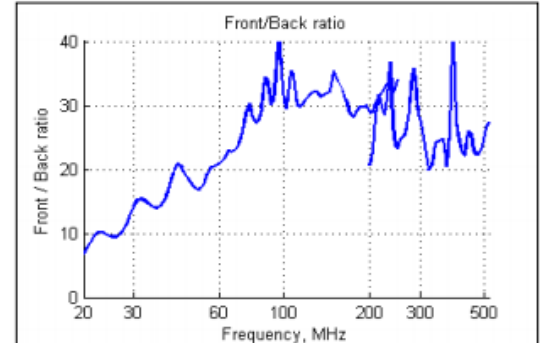
SRFS TELEINFRA



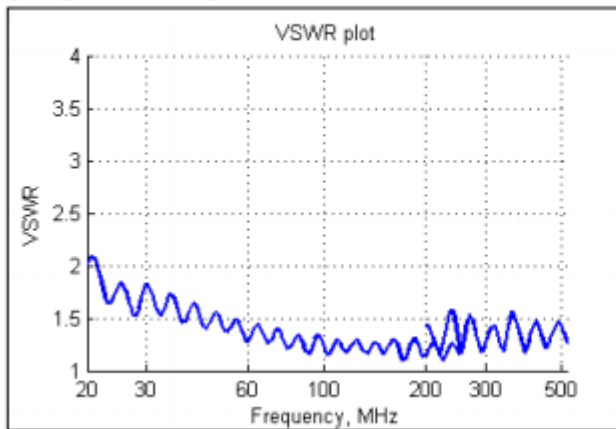
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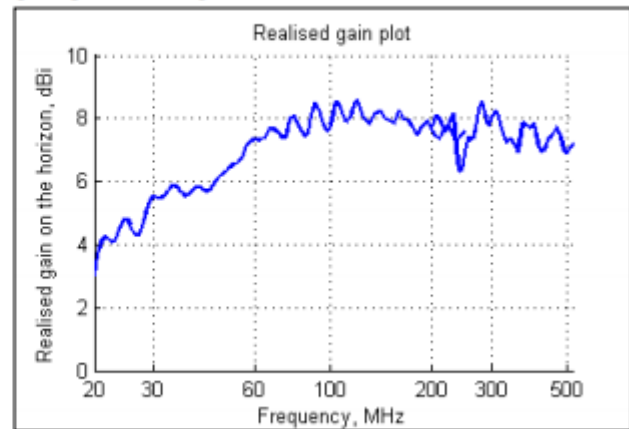
FRONT / BACK RATIO:



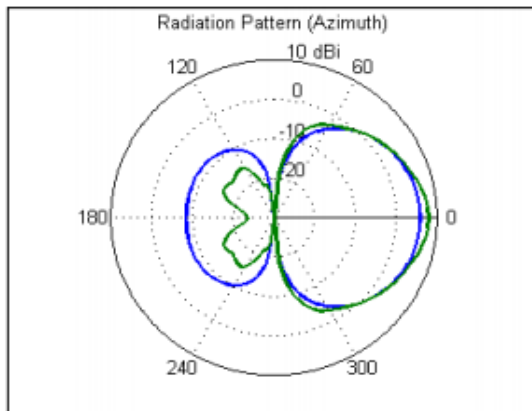
SIMULATED VSWR:



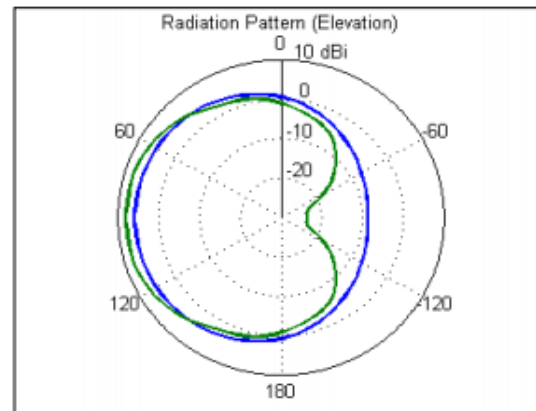
SIMULATED GAIN:



E-PLANE PATTERN:



H-PLANE PATTERN:



Blue = 30 MHz. Green = 100 MHz, typical for high frequencies



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