

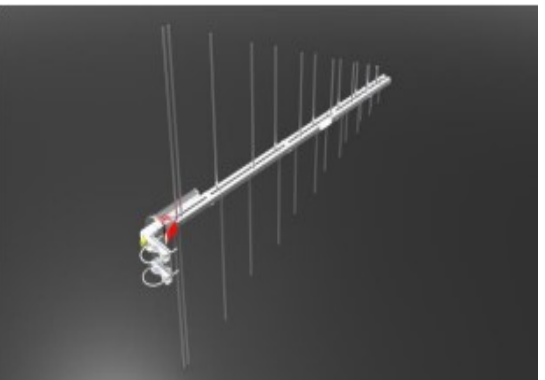
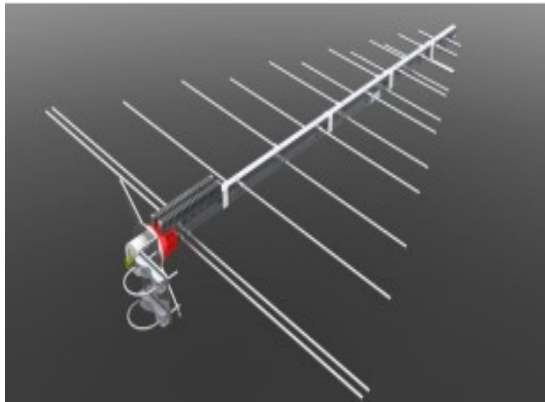
High-Power LPDA Model no.: SRFS- LPDA-A0030

Product Description

This LPDA is a directional log-periodic dipole array that covers the 100 to 500 MHz frequency band at 1 kW of feed power with a typical gain of 7 dBi. Polarization is adjustable between vertical and horizontal without lowering the mast via a swivel 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
- Easily adjustable polarization



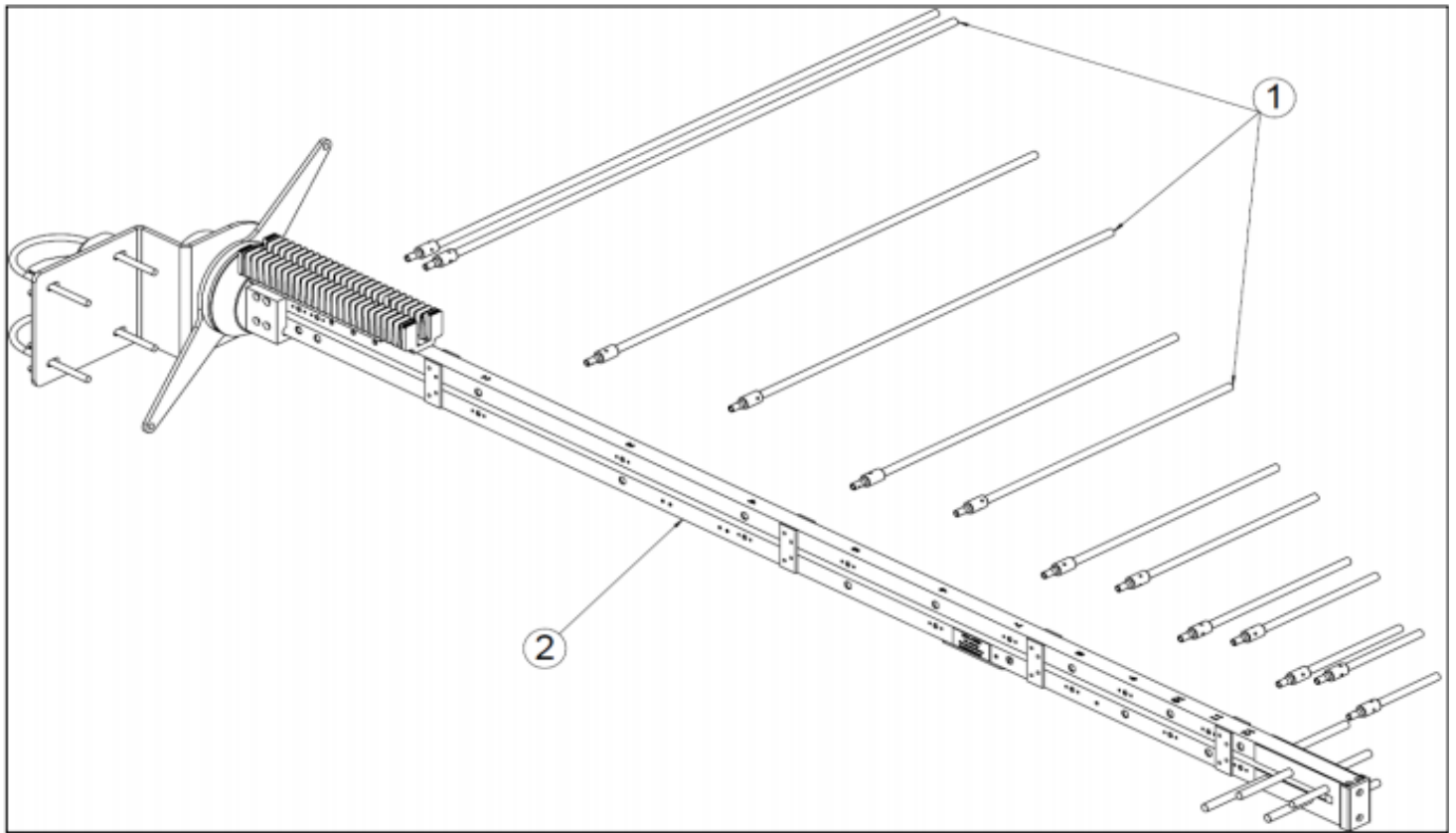
Electrical Specifications	
Frequency range	100– 500 MHz
VSWR	1.5:1 typical, and < 2.5:1 over the band
Nominal input impedance	50 Ω
Feed power handling	1 kW
Gain on horizon	7 dBi typical
E-plane 3 dB beamwidth	60° typical
H-plane 3 dB beamwidth	110° typical
Polarization	Linear, adjustable, vertical and horizontal
Mechanical Specifications	
Dimensions	1920 mm x 1700 mm
Material	Aluminum , fiberglass, stainless steel wire
Mounting method	Back mounting (see photos) U-bolts supplied for 60 – 100 mm mast
Environmental Specifications	
Wind survival	160 km/h (without ice)
Temperature storage	-31 °C to +65 °C

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EXPLODED VIEW OF LPDA-A0030 (only one side elements shown):



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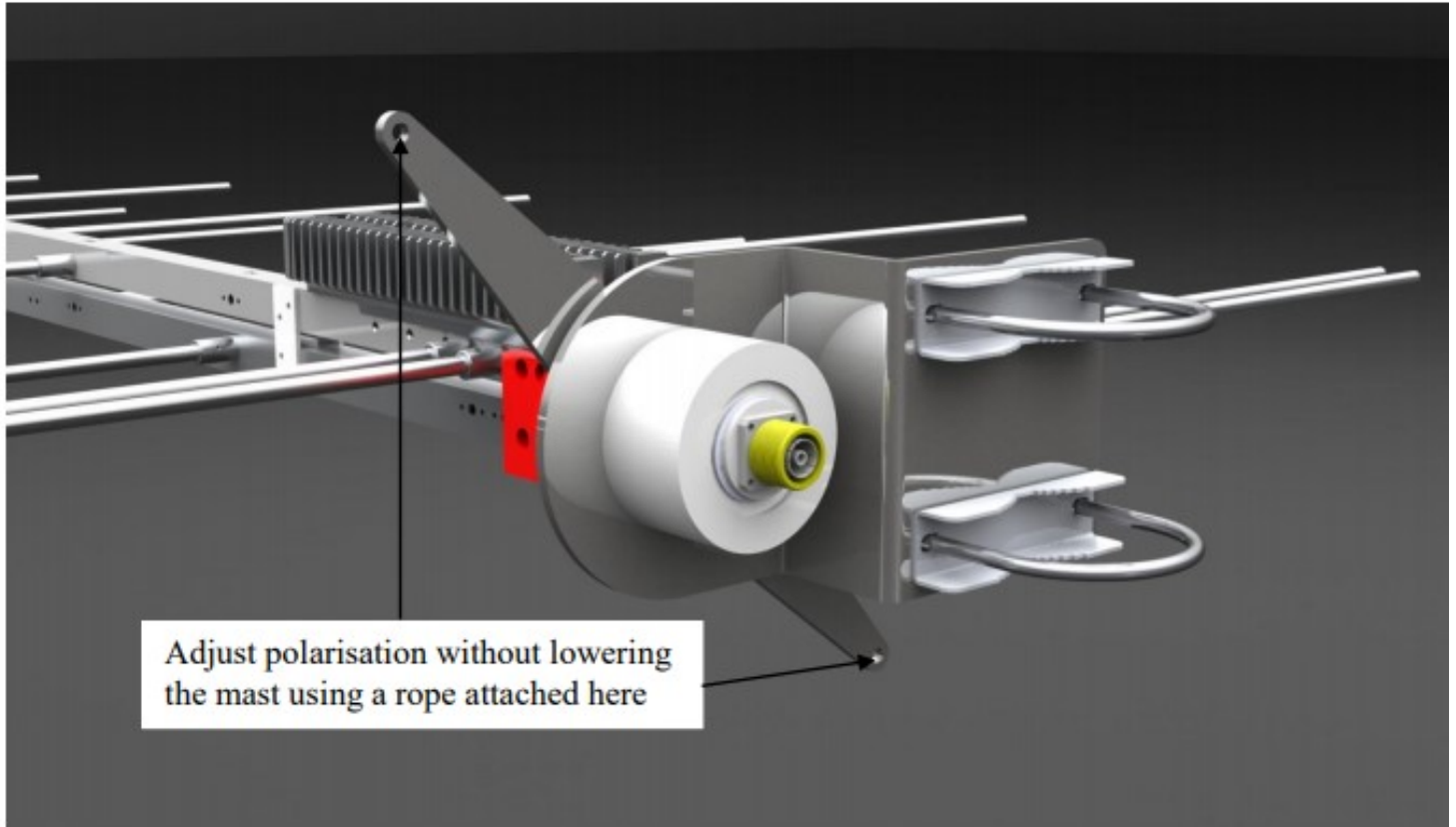
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VIEW OF LPDA-A0030 MOUNTING:



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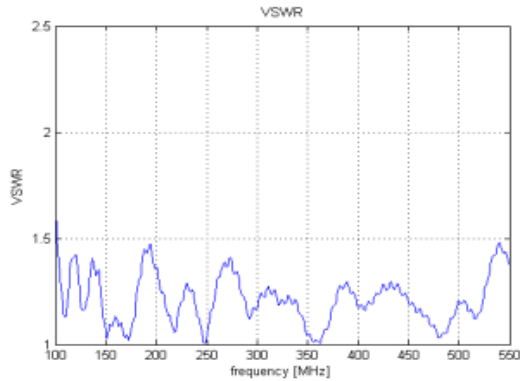
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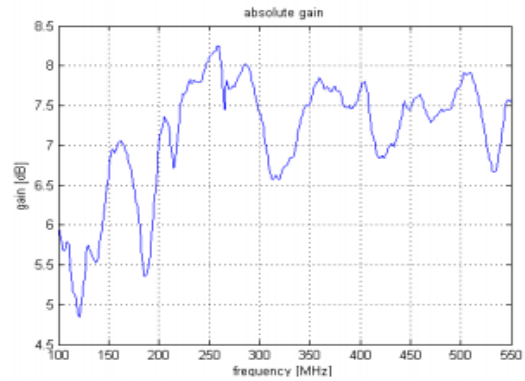
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VSWR AND GAIN GRAPHS:

MEASURED VSWR

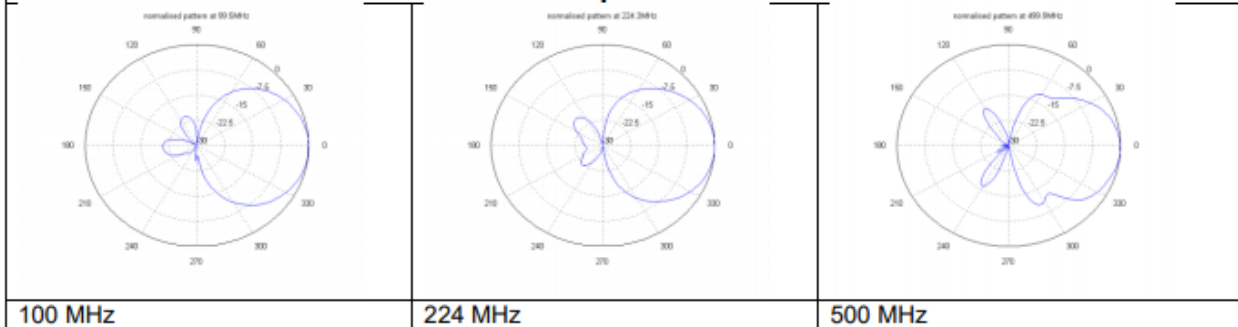


MEASURED GAIN

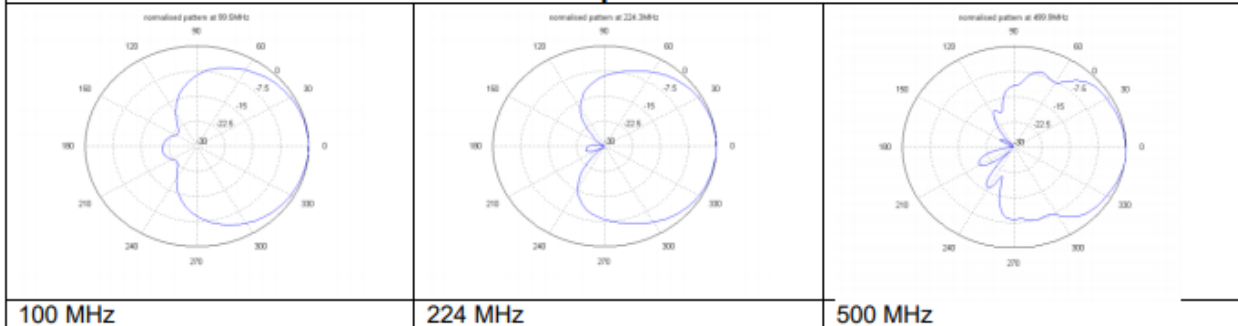


Normalised radiation patterns

E-plane



H-plane



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