

# High-Power Wire LPDA Antenna

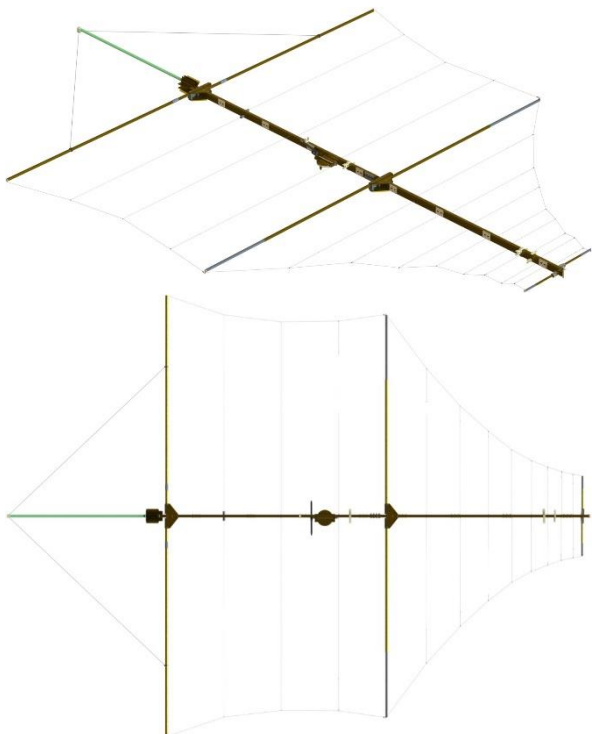
20 – 100 MHz

Product Code: LPDA-A0098

VERSION: 1.7

## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range	20 – 100 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Connector	7/16 female
Feed power handling	1000 W
Gain	6 dBi (typical)
E-plane 3 dB beamwidth	55°
H-plane 3 dB beamwidth	100°
Polarisation	Adjustable upon installation
<b>Mechanical:</b>	
Deployed dimensions (l x h x w)	8550 mm x 560 mm x 6480 mm
Includes tensioning system	
Stowing dimensions (l x h x w)	6530 mm x 560 mm x 560 mm
Shipping dimensions (l x h x w)	3500 mm x 600 mm x 500 mm
Total mass	42 kg (excl. rotating bracket) 44 kg (incl. rotating bracket)
Mounting method	Swivel bracket onto a mast
Exposed materials	Aluminium, stainless steel and tufnol
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	120 km/h
Temperature (operational)	-35 °C to 71 °C



## PRODUCT FEATURES:

- Quick deployment
- Compact storage
- High gain
- High feed power handling
- Vertical or horizontal polarisation

\*U.S. Patent No. 8,698,693 B2

\*ZA Patent No. 2011/01866

## PRODUCT DESCRIPTION:

The LPDA-A0098 is a high powered directional log-periodic dipole array designed for EW applications. It covers the 20 to 100 MHz, at 1 kW of power, with 6 dBi gain, or a 80° to 100° H-plane beamwidth. The polarisation is adjustable between vertical and horizontal without lowering the mast.

The antenna is constructed using a collapsible wire technology. This makes the antenna lightweight and allows for compact storage, quick, easy deployment and mounting. All antenna elements are permanently attached to the boom, to prevent any parts from becoming lost in the field.

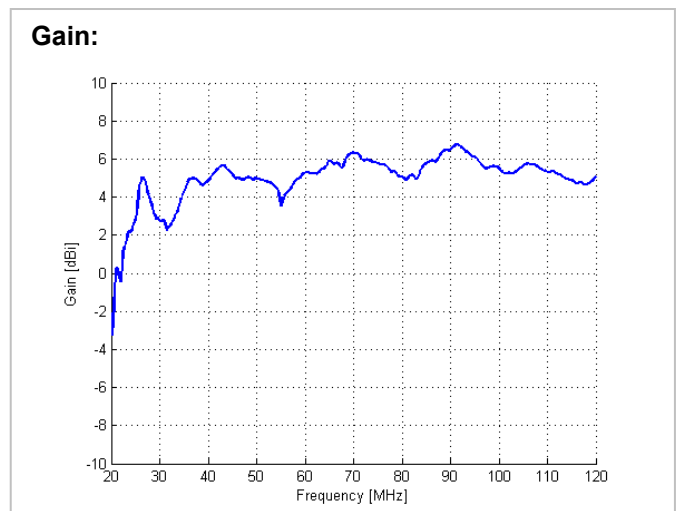
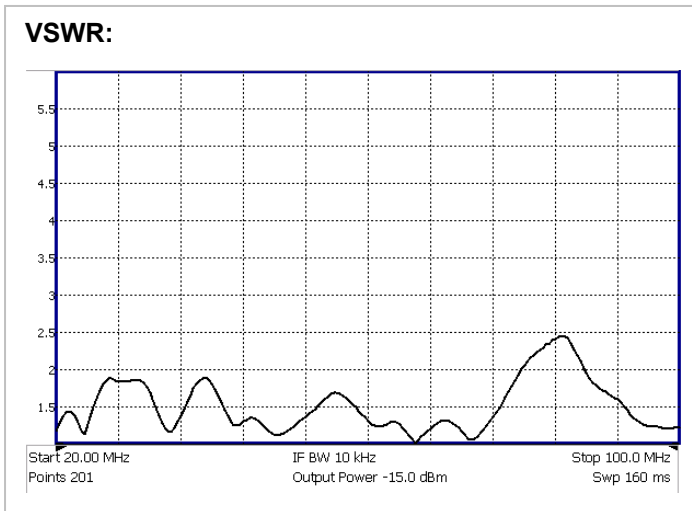
Tension is maintained in the elements of the antenna by means of a non-conducting tensions system that is deployed at the back of the antenna. The tension system folds away next to the boom of the antenna during stowage.

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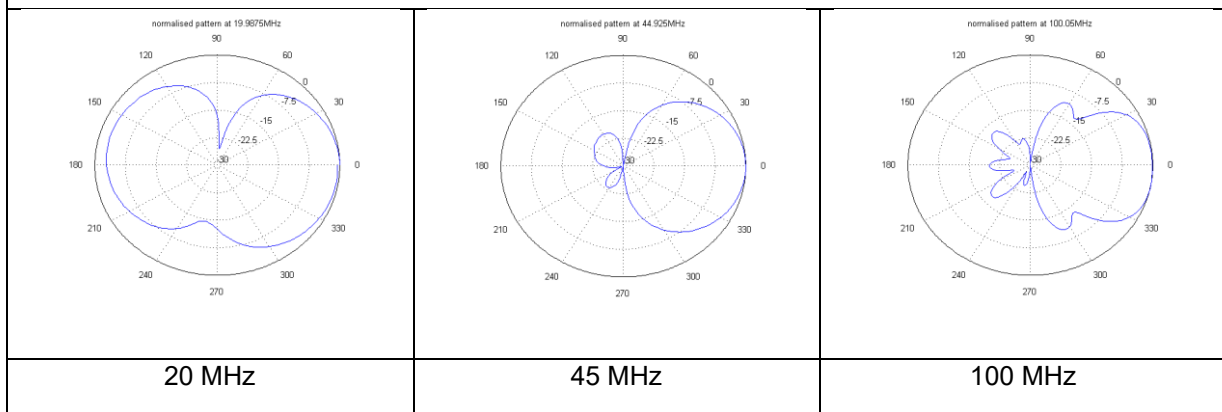
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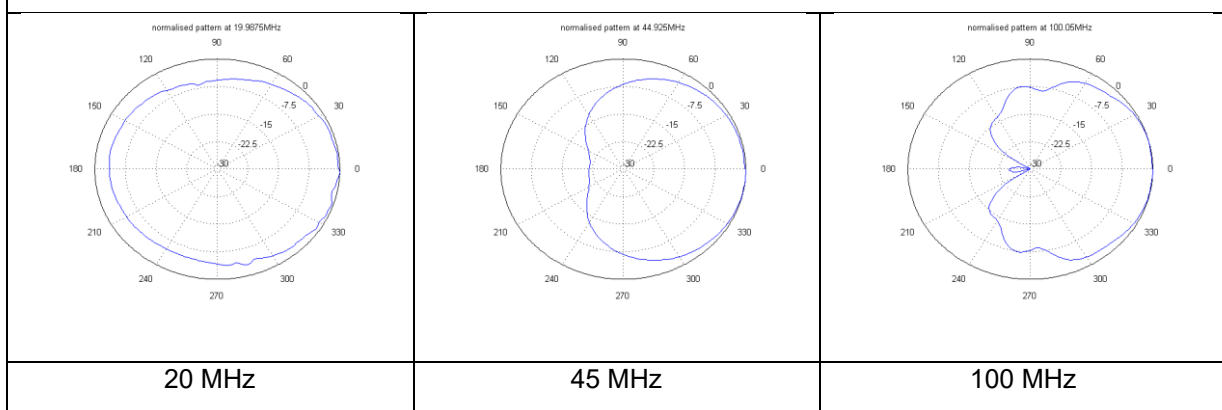


## Normalised radiation patterns:

### E-plane:



### H-plane:



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Top view of the LPDA-A0098:

