

Wideband Wire LPDA

225 – 3000 MHz

Product Code: LPDA-A0080

VERSION: 1.7

SPECIFICATIONS:



Electrical:	
Frequency range	225 – 3000 MHz
VSWR	< 2.5:1, typical < 2.0:1
Nominal input impedance	50 Ω
Connector	N-type female
Feed power handling	200 W
Gain	6 dBi typical, 10 dBi max
E-plane 3 dB beamwidth	55 – 65°
H-plane 3 dB beamwidth	90 – 110°
Polarisation	Linear, vertical or horizontal
Mechanical:	
Dimensions	Length: 1300 mm incl. mounting Height: 800 mm Width: 150 mm
Packed dimensions	Length: 1300 mm Height: 150 mm Width: 150 mm
Total mass	< 2.2 kg
Colour	Black
Mounting method: Optional BRKT-A0022	Bracket for masts 25 mm to 70 mm. Quick removal system
Environmental: designed to meet the following specifications	
Wind survival	160 km/h
Effective wind area	0.3 m ²
Temperature (operational)	-35 °C to 55 °C
Temperature (storage)	-35 °C to 71 °C
Exposed materials	Aluminium, stainless steel and plastic.

PRODUCT FEATURES:

- Lightweight
- Fast deployment from folded
- Compact, rugged storage when folded
- Ultra-wideband in a single antenna
- Low and stable VSWR
- Vertical or horizontal polarisation

APPLICATIONS:

- Radio communications

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

*ZA Patent No. 2011/01866

PRODUCT DESCRIPTION:

The LPDA-A0080 medium gain wideband directional LPDA antenna covers the frequency band from 225 MHz to 3000 MHz. It is optimized for JTRS wideband networking waveforms used in wide area networks, such as SRW and WNW.

This antenna is constructed using a unique wire technology*. This makes the antenna lightweight and allows for very compact storage, quick, easy deployment and mounting. The flexible nature of this antenna makes it very easy to collapse the antenna and break off any accumulated ice.

All antenna elements and other parts are permanently attached to the boom, to prevent any parts from becoming lost in the field.

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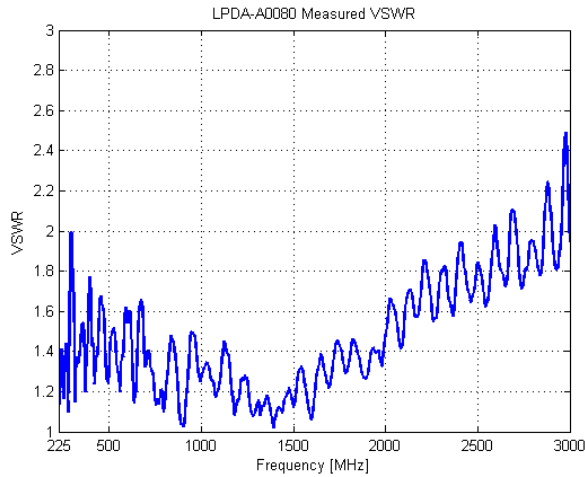
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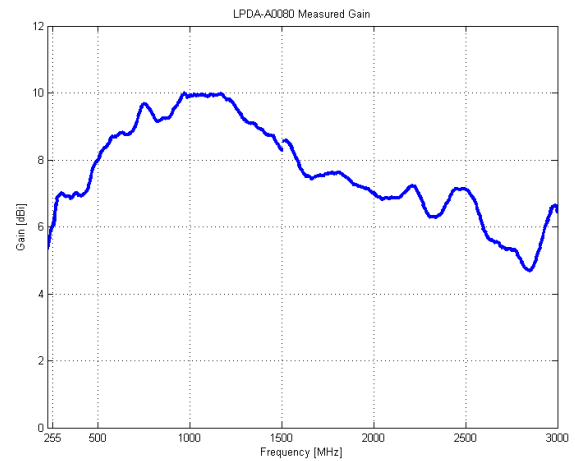
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VSWR AND GAIN GRAPHS:

Measured VSWR:



Measured GAIN:



RADIATION PATTERNS:

