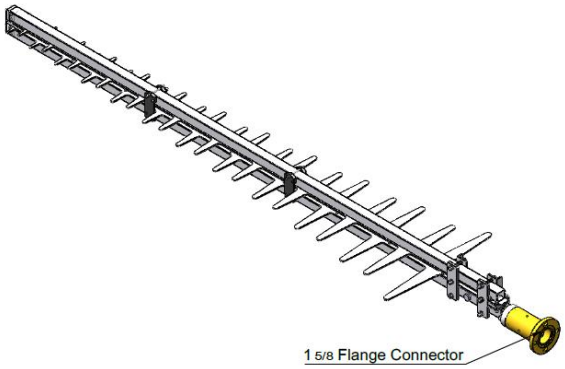
Very High-Power LPDA

500 – 1000 MHz

VERSION: 1.5

Product Code: LPDA-A0103



SPECIFICATIONS:

Electrical:	
Frequency range	500 – 1000 MHz
VSWR	< 2:1
Nominal input impedance	50 Ω
Connector	EIA 1 5/8
Feed power handling	4000 W
MTBF	50,000 h
Gain (typical)	> 10 dBi typical
Polarisation	Linear (vertical and horizontal)
Mechanical:	
Dimensions (w x l)	345 mm x 1753 mm
Total mass	7 kg
Mounting method	Mast (60 – 100 mm)
Environmental: designed to meet the following specifications	
Wind survival on mast	160 km/h (calculated)
Temperature (operational)	-30 ºC to +70 ºC
Water and dust resistance	IP66

PRODUCT FEATURES:

- High feed power handling of 4 kW
- Low VSWR
- High gain over the band

APPLICATIONS:

- Wideband monitoring
- High-powered transmissions

PRODUCT DESCRIPTION:

The LPDA-A0103 is a directional log-periodic dipole array that is primarily designed for high-powered transmit applications. It covers the frequency band of 500 to 1000 MHz at 4000 W of power, with a typical gain of 9 dBi.

The antenna can be adjusted easily for horizontal or vertical polarisation via a swivel mounting bracket on a mast.

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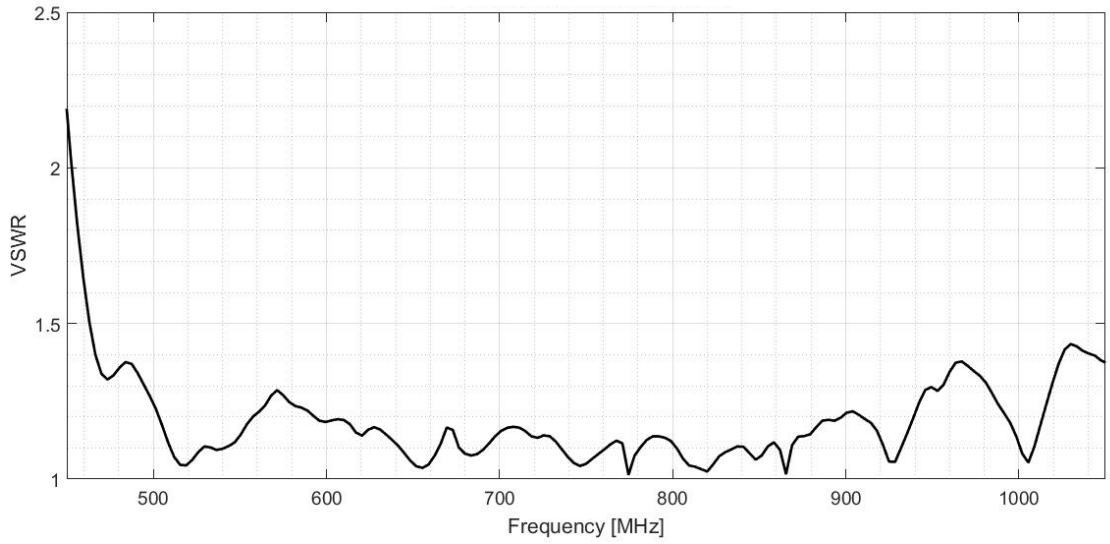
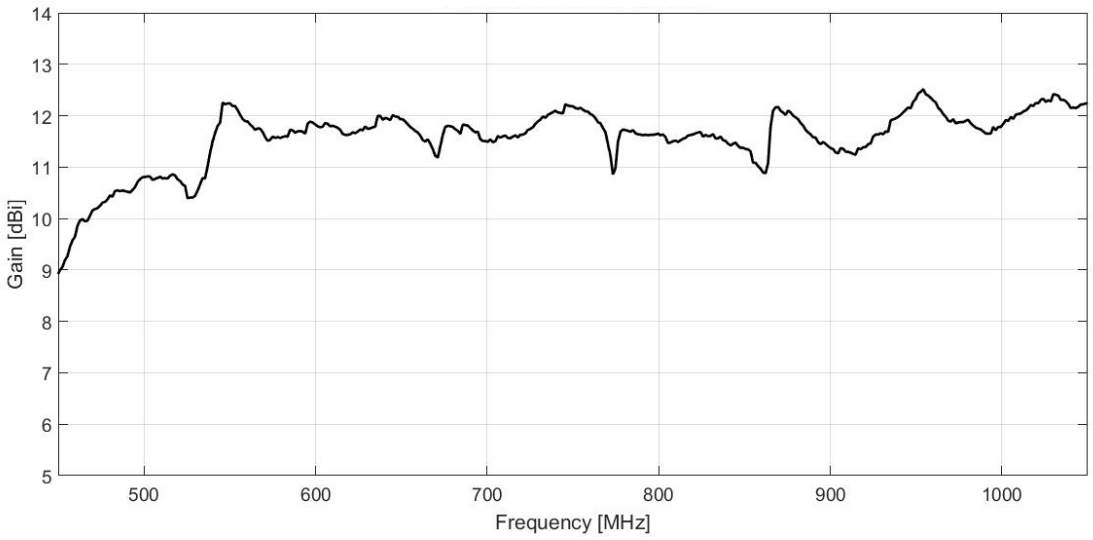
VSWR AND GAIN GRAPHS:

Measured VSWR:



Measured GAIN:



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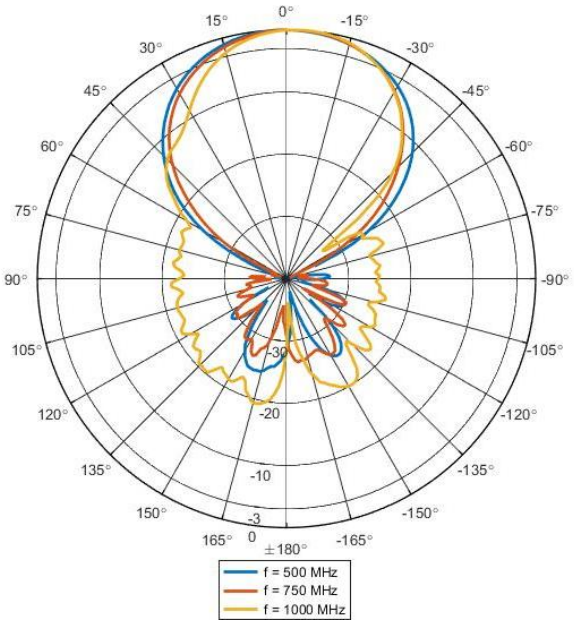
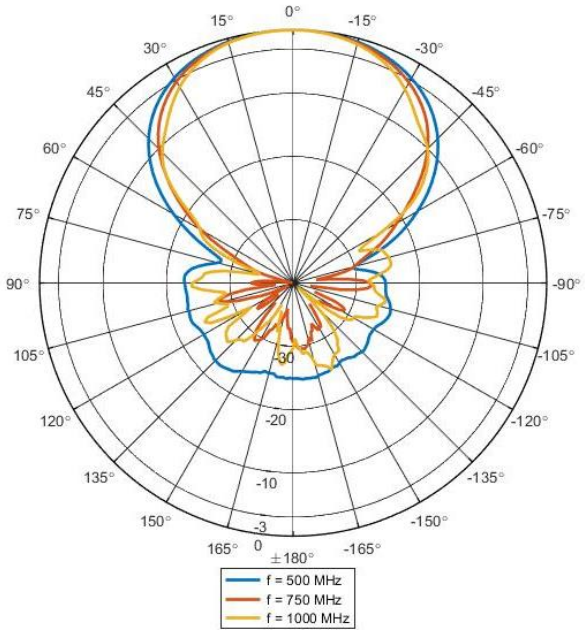
RADIATION PATTERNS:

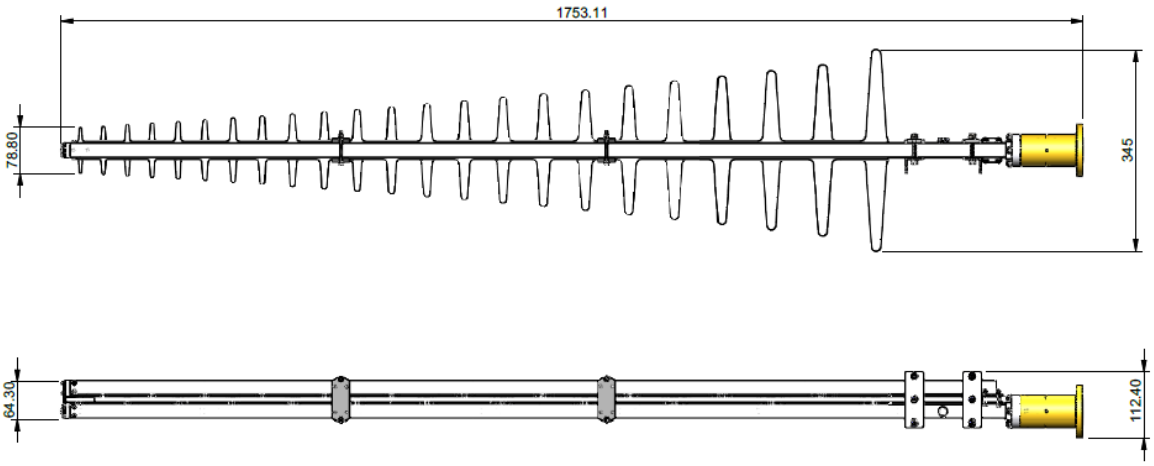
E-PLANE PATTERN:



H-PLANE PATTERN:



DIMENSIONS:



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