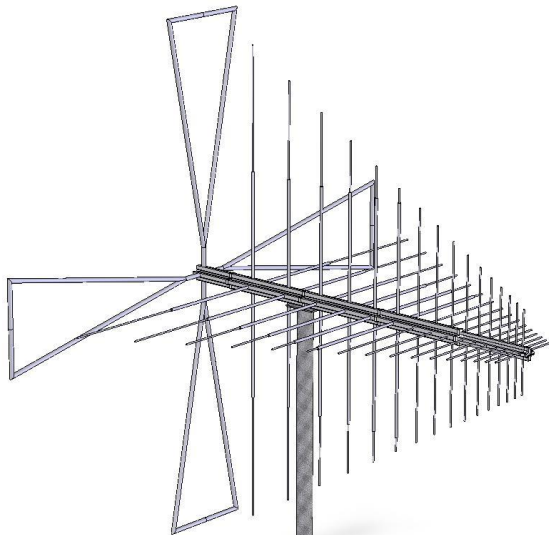


# Dual-Polarised LPDA Antenna

30 – 100 MHz

Product Code: LPDA-A0040

VERSION: 2.5



## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range	30 – 100 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω (nominal)
Isolation	< 15 dB
Feed power handling	1 kW
Front-to-back ratio	< 20 dB
Gain	5 dBi typical over the frequency band. Gain reduces from about 6 dBi at 42 MHz to 0.5 dBi at 30 MHz
Elevation 3 dB beamwidth	64° – 80°
Azimuth 3 dB beamwidth	260° – 116°
Polarisation	Dual
Connectors	Two 7/16 female (one for each pole)
MTBF	50,000 hours
<b>Mechanical:</b>	
Dimensions	Width 3700 mm; depth 3700 mm; length 3600 mm
Material	Aluminum, stainless steel, fibreglass
Total mass	< 45 kg (Including mounting bracket and isolator pole)
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	160 km/h (calculated)
Qualification	Design to comply with applicable parts of MIL-STD-810E
Temperature (operational)	-40 ° C to +55 °C (no icing)

## PRODUCT DESCRIPTION:

The LPDA-A0040 is a high-powered, 1 kW, directional log-periodic dipole array that covers the 30 to 100 MHz frequency band. The antenna is supplied with its mounting bracket and isolator pole.

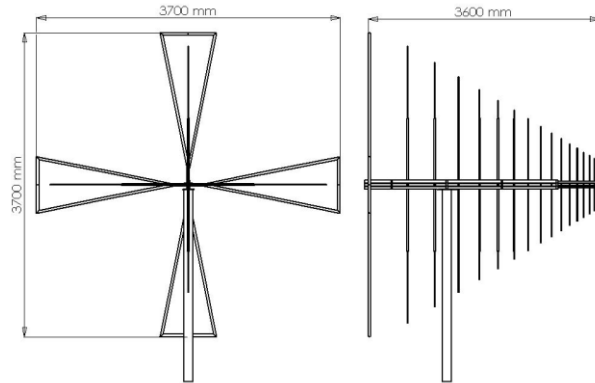
# Dual-Polarised LPDA Antenna

30 – 100 MHz

Product Code: LPDA-A0040

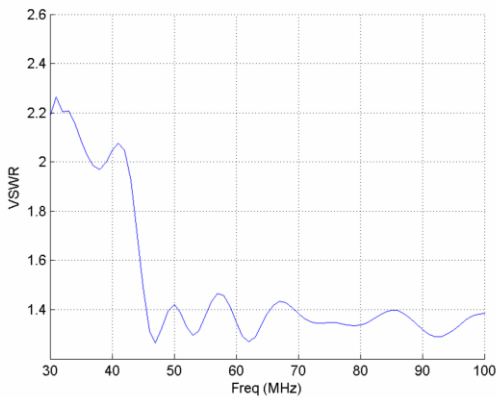
VERSION: 2.5

## PHYSICAL DIMENSIONS:

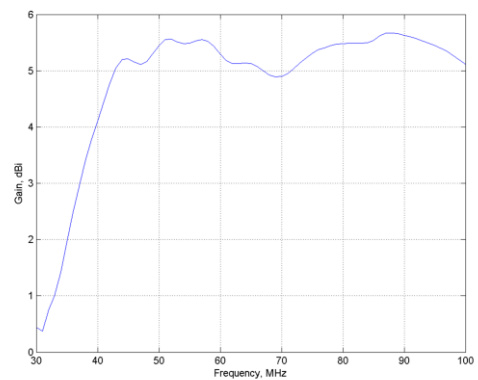


## VSWR AND GAIN GRAPHS:

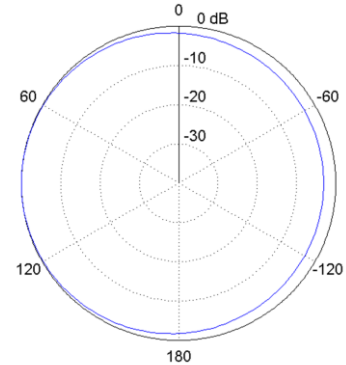
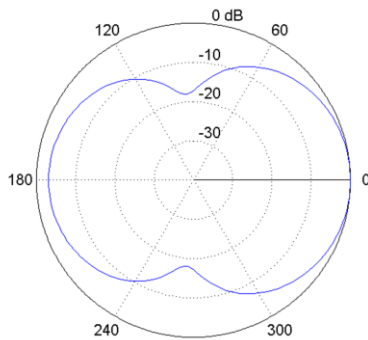
VSWR FOR EACH POLE:



GAIN CURVE FOR EACH POLE:



30 MHz E-plane (left) and H-plane (right):



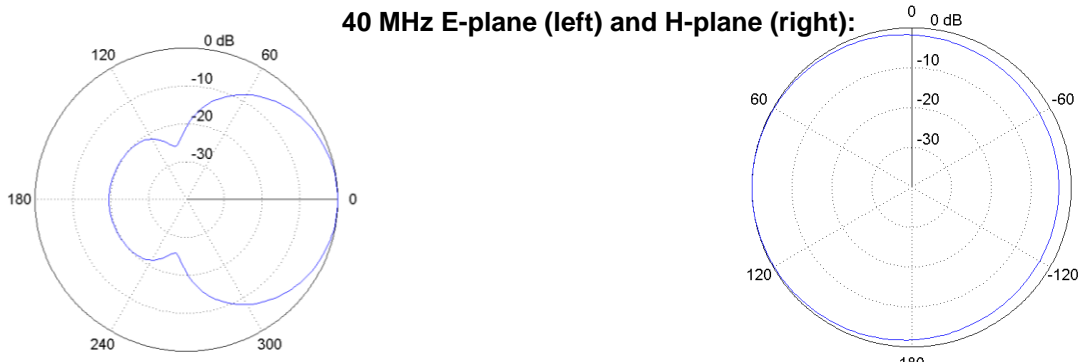
# Dual-Polarised LPDA Antenna

30 – 100 MHz

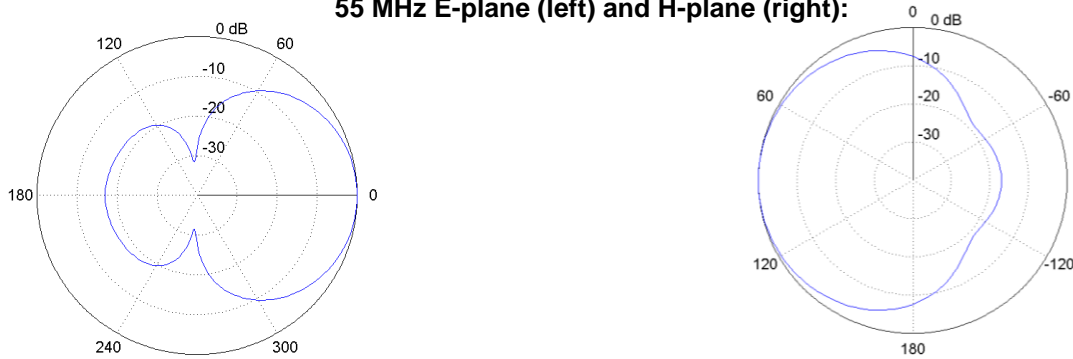
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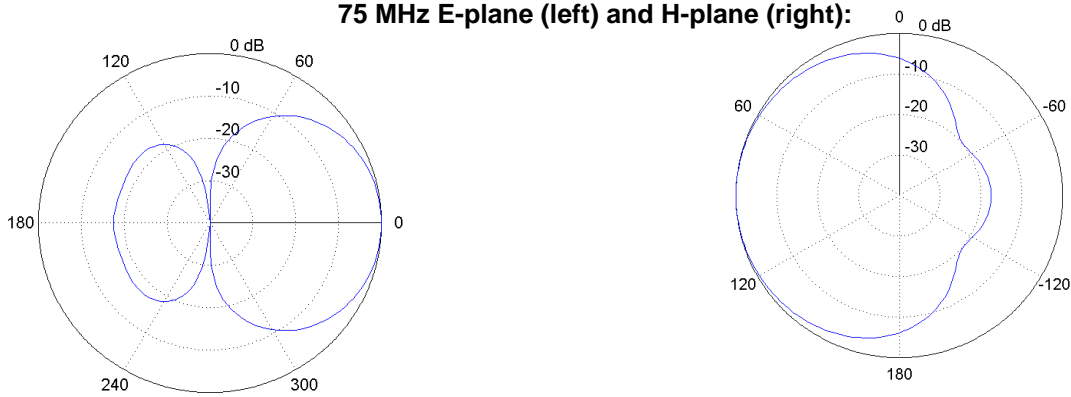
40 MHz E-plane (left) and H-plane (right):



55 MHz E-plane (left) and H-plane (right):



75 MHz E-plane (left) and H-plane (right):



100 MHz E-plane (left) and H-plane (right):

