Dual Port High-Power LPDA Antenna

400 – 6000 MHz

Product Code: LPDA-A0162

VERSION: 1.0

SPECIFICATIONS:

Electrical:	
Frequency range	400 – 6000 MHz
Band A	400 – 1600 MHz
Band B	2400 – 6000 MHz
VSWR	< 2.0:1
Nominal input impedance	50 Ω
Connector	2x N-type female
Feed power handling	100W CW
Gain (typical)	See graph below
E-plane 3 dB beamwidth	
Band A	70º - 100°
Band B	90° - 105°
H-plane 3 dB beamwidth	
Band A	45º - 60°
Band B	50° - 60°
Polarisation	Linear
Front-to-back ratio	≥ 22 dB
Mechanical:	
Dimensions (l x h x w)	625 mm x 710 mm x 160 mm (incl. bracket)
Material	Aluminium, stainless steel, fibreglass
Total mass	< 5 kg (incl. mounting bracket)
Mounting method	4 x M8 Bolts
MTBF	500,000 h
Environmental: designed to meet the following specifications	
Wind survival	160 km/h calculated
Operating Temperature	-30ºC to +65º (no icing)
Storage Temperature	-40ºC to +85º

PRODUCT FEATURES:

- Wideband frequency 400 to 6000 MHz
- VSWR < 2.0:1
- High gain: > 7 dBi
- Rugged construction
- Ice resistant

PRODUCT APPLICATIONS:

- Wideband
- High-Power

PRODUCT DESCRIPTION:

The LPDA-A0162 dual port directional log-periodic dipole array (LPDA) is primarily designed for high-power applications. It covers a frequency band of 400 to 6000 MHz with a gain of greater than 7 dBi.

The antenna provides two separate ports for simultaneous transmission in both bands with good isolation between bands.

The antenna is completely encapsulated in a radome. The antenna is provided with a mounting bracket.

sales@alaris.co.za

www.alarisantennas.com

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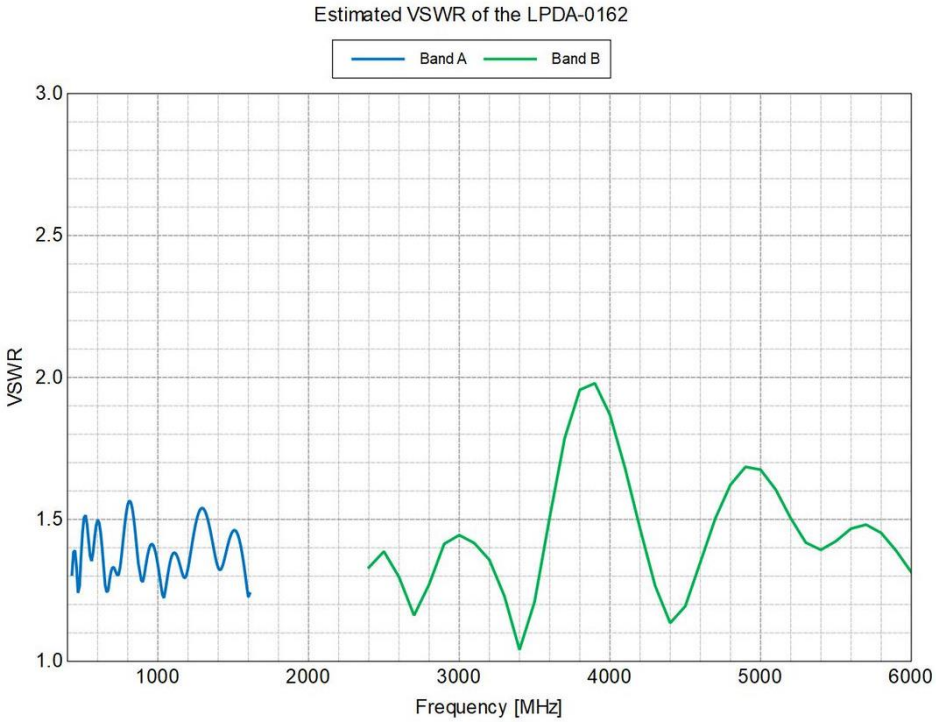
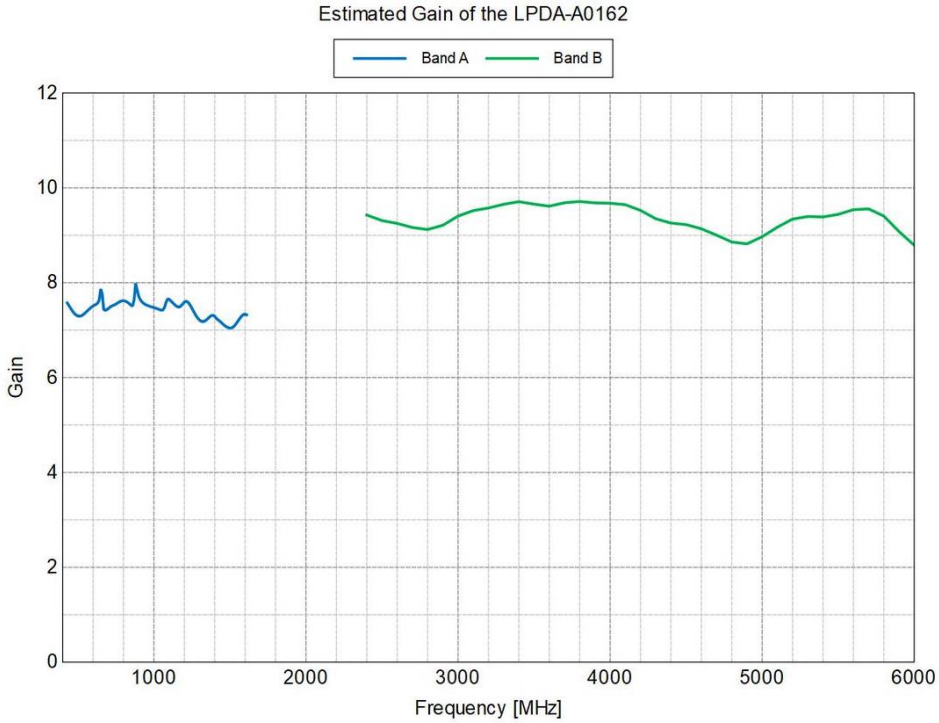
VSWR AND GAIN GRAPHS:

Typical VSWR:



GAIN:



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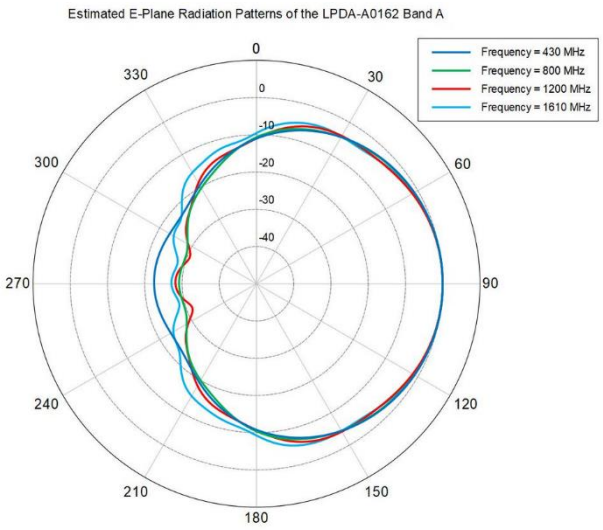
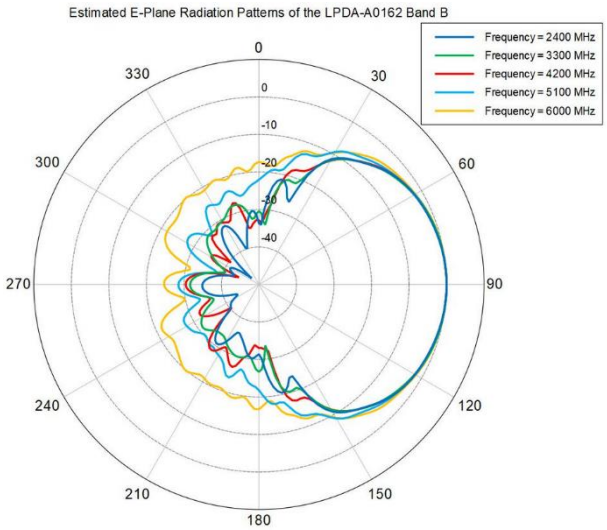
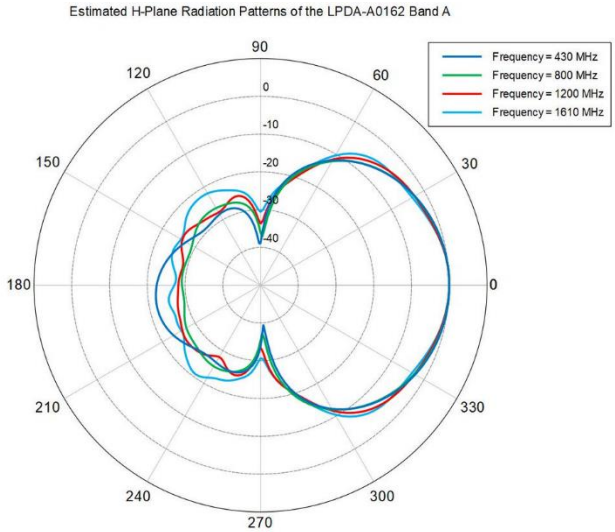
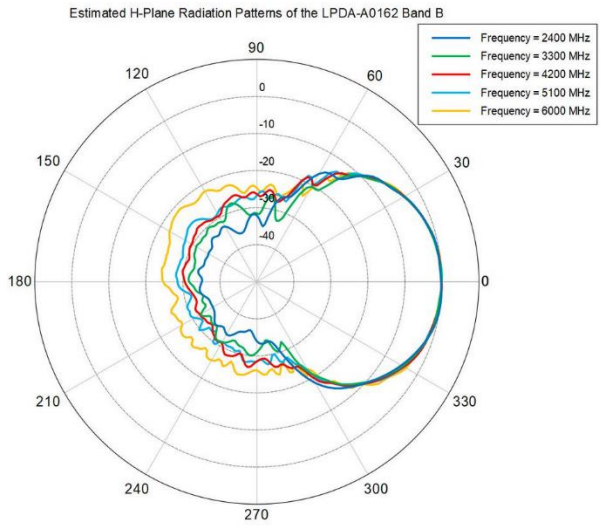
RADIATION PATTERNS:









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