

Wide-Beam Monitoring LPDA Antenna

600 – 3700 MHz

Product Code: LPDA-A0156

VERSION: 1.2

SPECIFICATIONS:



Note: Picture is for illustration only and actual product may differ slightly

Electrical:	
Frequency range	600 – 3700 MHz
VSWR	< 2.5:1
Nominal input impedance	50 Ω
Connector	N-type female
Feed power handling	Receive only
Gain (typical)	See graph below
E-plane 3 dB beamwidth	60° - typical
H-plane 3 dB beamwidth	120° - typical
Polarisation	Linear
Mechanical:	
Dimensions (w x l)	440mm x 330mm x 125mm
Material	Aluminium, stainless steel, fibreglass
Total mass	<3.7 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	-30°C to +65° (no icing)
Storage Temperature	-40°C to +85°
Corrosion	Designed for MIL-STD-810F MIL-1250A

PRODUCT FEATURES:

- Wideband frequency 600 to 3700 MHz
- VSWR < 2.5:1
- Wide H-Plane Beamwidth
- Rugged construction
- Ice resistant

PRODUCT APPLICATIONS:

- Wideband Monitoring

PRODUCT DESCRIPTION:

The LPDA-A0156 directional log-periodic dipole array (LPDA) is primarily designed for monitoring applications where a wide beamwidth is required. The antenna can work up to 180° with reduced gain and covers the frequency band between 600 and 3700 MHz

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

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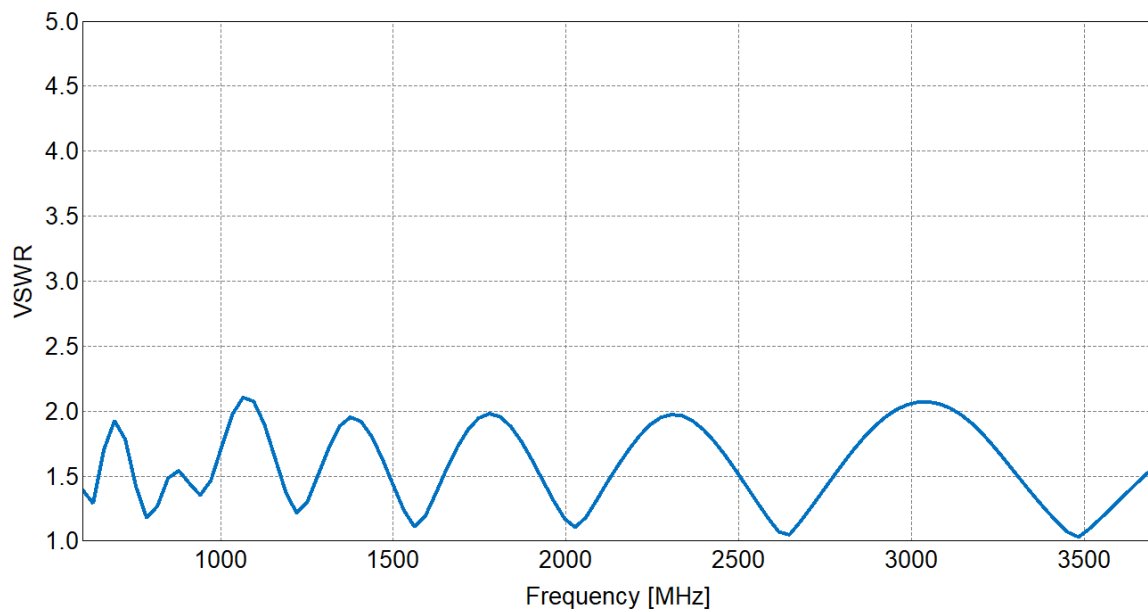
600 – 3700 MHz

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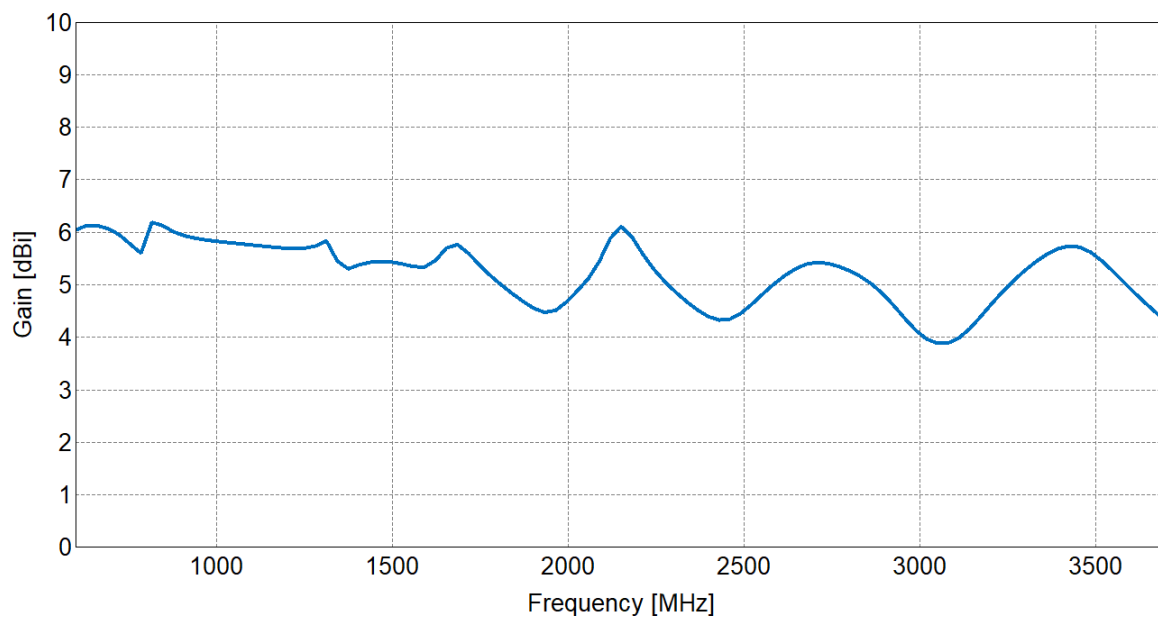
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VSWR AND GAIN GRAPHS:

Typical VSWR:



Typical GAIN:



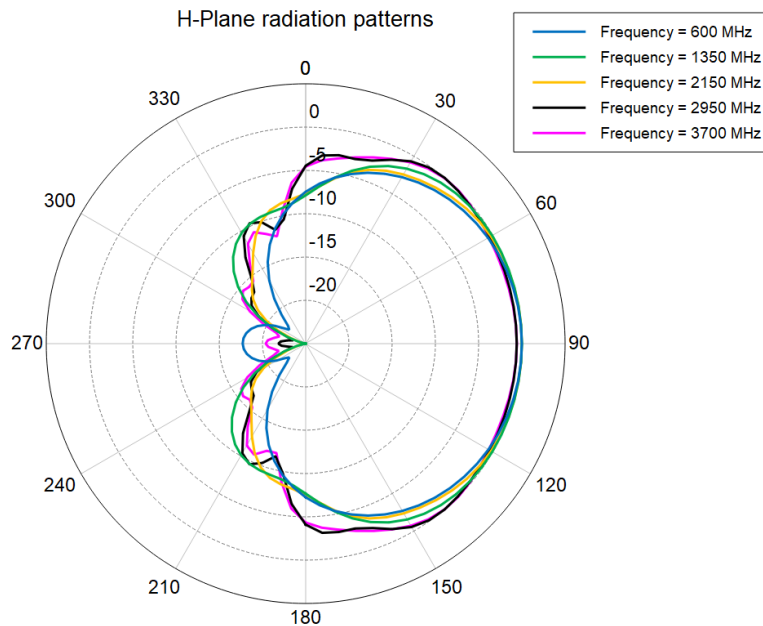
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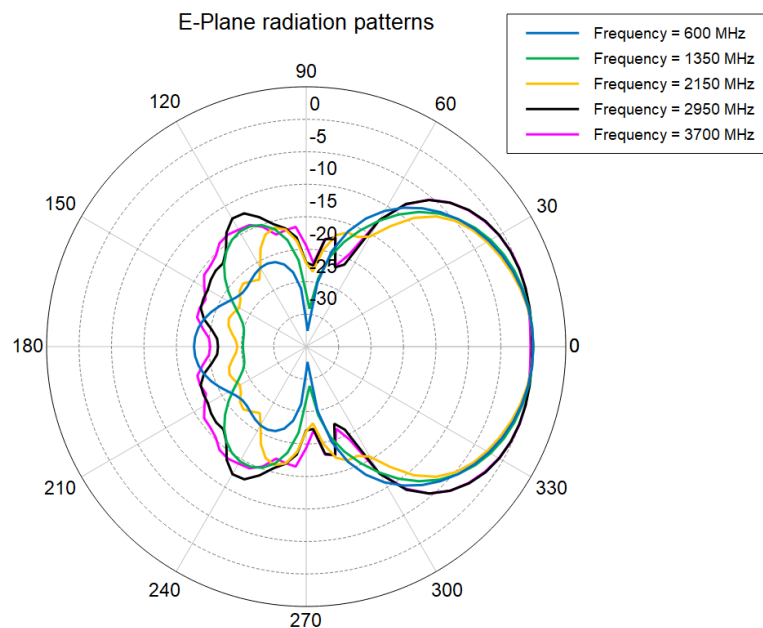
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RADIATION PATTERNS (normalised):



Total Gain (Phi = 0 deg) - LPDA_Flat_T25_Loaded_Narrow_Front_Straight_elem



Total Gain (Theta = 90 deg) - LPDA_Flat_T25_Loaded_Narrow_Front_Straight_elem