

SPECIFICATIONS:

| Electrical: | |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Frequency range | 30 – 2500 MHz |
| VSWR | < 2:1 over the frequency band |
| Nominal input impedance | 50 Ω |
| Feed power handling | Receive only |
| Gain | 7 dBi typical over the frequency band. Refer to gain plot |
| Elevation 3 dB beamwidth | 60 ° |
| Azimuth 3 dB beamwidth | 120 ° |
| Polarisation | Adjustable: vertical and horizontal |
| Connectors | N-type female |
| Mechanical: | |
| Dimensions (w x l) | 4000 mm x 5000 mm |
| Material | Aluminium, stainless steel, fibreglass |
| Total mass | 38 kg (incl. isolation pole) |
| Environmental: designed to meet the following specifications | |
| Wind survival | 160 km/h when guyed |
| Water and dust resistance | IP66 |
| Temperature range | - 30 °C to +65 °C (antenna has a nose piece covering high frequency elements for icing) |
| Corrosion | Appropriate anti-corrosion measures are taken in the design of antenna for harsh environmental conditions |


PRODUCT FEATURES:

- Wideband frequency 30 MHz to 2500 MHz
- Low VSWR
- High gain of typically 7 dBi
- Rugged construction and compact packaging
- Easy to assemble and disassemble (< 10 minutes for two people)
- Also configured for fixed applications

PRODUCT APPLICATIONS:

- Wideband monitoring

PRODUCT DESCRIPTION:

The LPDA-A0047 is a directional log-periodic dipole array primarily designed for EW monitoring applications to cover the 30 MHz to 2500 MHz frequency band with a typical gain of 7 dBi. The polarisation is adjustable between vertical and horizontal without lowering the mast.

This antenna is supplied with a boom that breaks into three sections and all the elements can be removed and stored in a roll-up canvas bag for compact storage. The antenna can be assembled and erected within 10 minutes by two people.

This antenna can be customised if required, for different frequency ranges handling.

Wideband LPDA Antenna

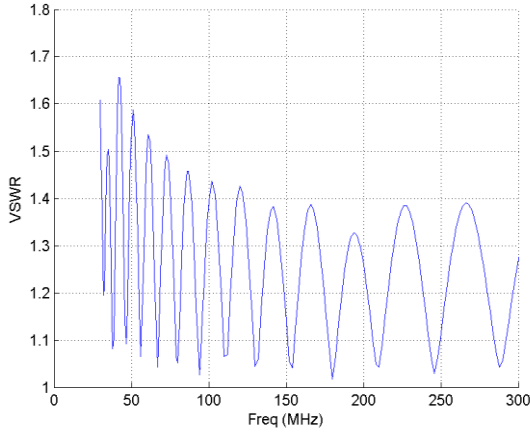
30 – 2500 MHz

Product Code: LPDA-A0047

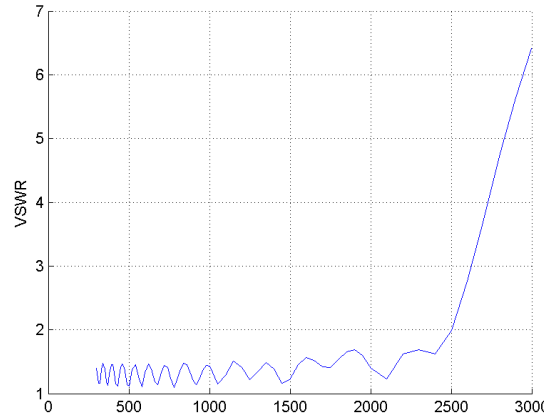
VERSION: 2.7

VSWR AND GAIN GRAPHS:

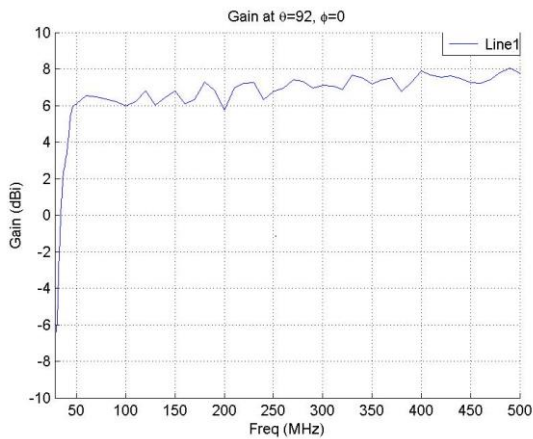
LOW FREQUENCY BAND VSWR:



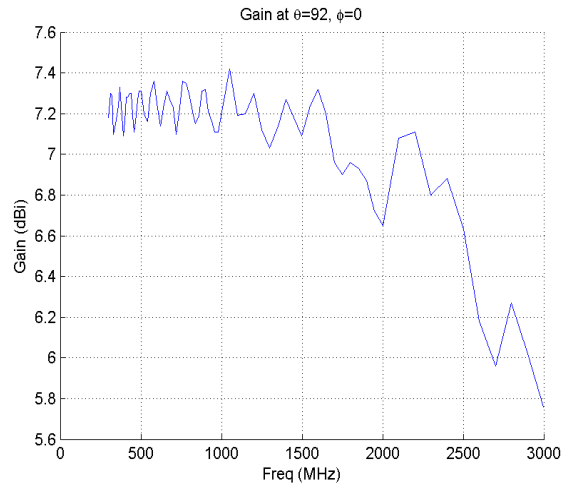
HIGH FREQUENCY BAND VSWR:



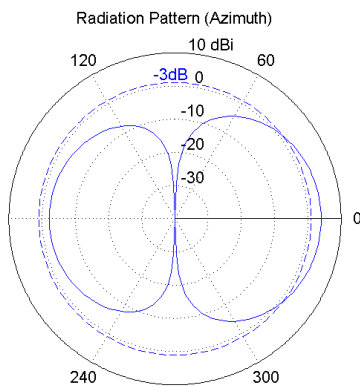
LOW FREQUENCY BAND GAIN:



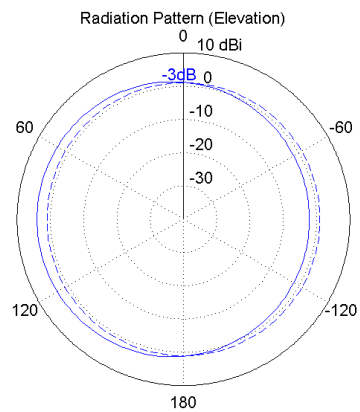
HIGH FREQUENCY BAND GAIN:



E-plane plot at 30 MHz:



H-plane plot at 30 MHz:



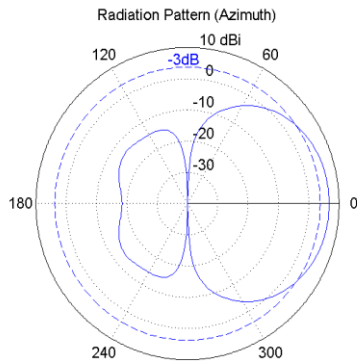
Wideband LPDA Antenna

30 – 2500 MHz

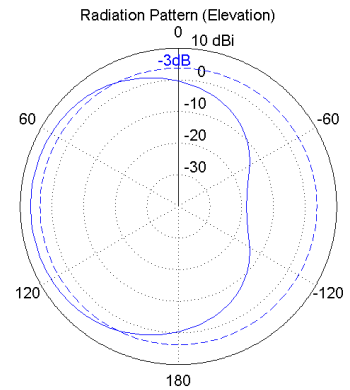
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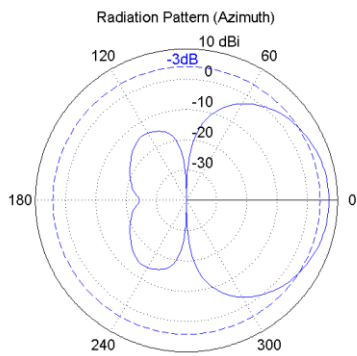
E-plane plot at 100 MHz:



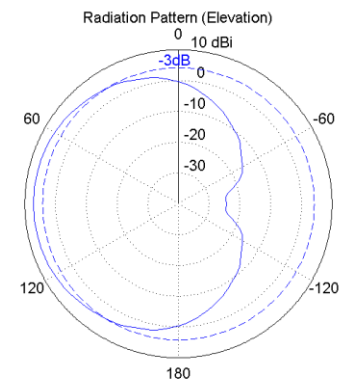
H-plane plot at 100 MHz:



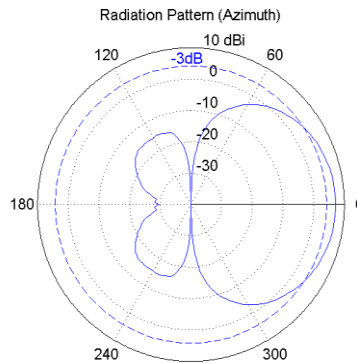
E-plane plot at 300 MHz:



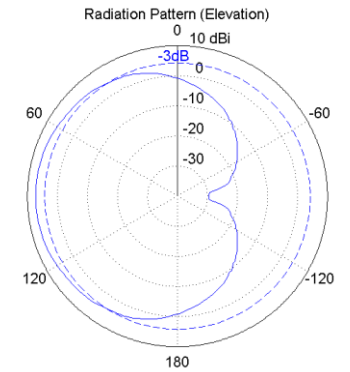
H-plane plot at 300 MHz:



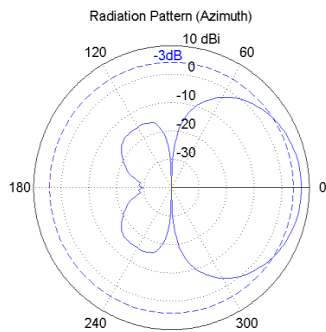
E-plane plot at 1000 MHz:



H-plane plot at 1000 MHz:



E-plane plot at 2500 MHz:



H-plane plot at 2500 MHz:

