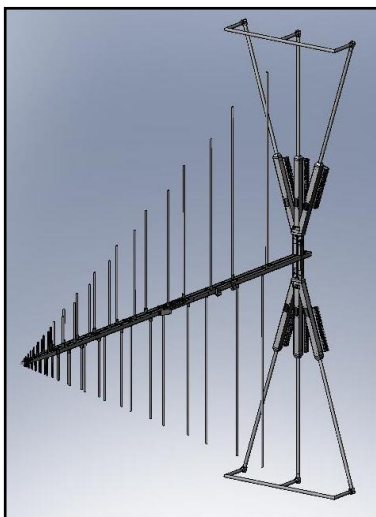


# Wideband LPDA Antenna

20 – 3000 MHz

Product Code: LPDA-A0036

## SPECIFICATIONS:



|                                                                     |                                                                                                                                 |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Product codes:</b>                                               |                                                                                                                                 |
| LPDA-A0036-01                                                       | 1000 W up to 1 GHz<br>rolling off to 250 W @ 3 GHz                                                                              |
| LPDA-A0036-02                                                       | 250 W up to 90 MHz<br>1000 W up to 1 GHz<br>rolling off to 250 W @ 3 GHz                                                        |
| LPDA-A0036-03                                                       | Receive only version, 50 W                                                                                                      |
| LPDA-A0036-05                                                       | 2000 W up to 100 MHz<br>1500 W up to 520 MHz<br>1000 W up to 1 GHz<br>Rolling off to 250 W at 3 GHz                             |
| <b>Electrical:</b>                                                  |                                                                                                                                 |
| Frequency range                                                     | 20 – 3000 MHz                                                                                                                   |
| VSWR                                                                | LPDA-A0036-01/-02/-05:<br>< 3.0:1 over 95% of the band<br>LPDA-A0036-03:<br>< 10.0:1 up to 60 MHz<br>< 2.5:1 from 60 – 3000 MHz |
| Nominal input impedance                                             | 50 $\Omega$                                                                                                                     |
| Connector                                                           | 7/16 female                                                                                                                     |
| Gain on horizon                                                     | 6 dBi typical                                                                                                                   |
| E-plane 3 dB beamwidth                                              | 60° typical                                                                                                                     |
| H-plane 3 dB beamwidth                                              | 110° typical                                                                                                                    |
| Polarisation                                                        | Adjustable (vertical or horizontal)                                                                                             |
| <b>Mechanical:</b>                                                  |                                                                                                                                 |
| Dimensions (l x w x h)                                              | 2882 mm x 2804 mm x 829 mm                                                                                                      |
| Mass                                                                | LPDA-A0036-01/-05: 20 kg<br>LPDA-A0036-02: 14 kg<br>LPDA-A0036-03: 10 kg<br>Isolating pole: 12 kg                               |
| Materials                                                           | Aluminium, stainless steel, fibreglass                                                                                          |
| Colour                                                              | As per request                                                                                                                  |
| Mounting method                                                     | On a swivel bracket fitted to the mast<br>(requires isolation pole to change polarisation which is standard issue)              |
| <b>Environmental: designed to meet the following specifications</b> |                                                                                                                                 |
| Wind survival                                                       | 160 km/h (calculated)                                                                                                           |
| Temperature range                                                   |                                                                                                                                 |
| LPDA-A0036-01/-02/-05                                               | -31 °C to +55 °C (ambient temperature)                                                                                          |
| LPDA-A0036-03                                                       | -31 °C to +71 °C (ambient temperature)                                                                                          |
| Water and dust resistance                                           | IP56                                                                                                                            |

## PRODUCT FEATURES:

- Low VSWR and high gain
- High-power handling
- Vertical and horizontal polarisation
- Easy to assemble and disassemble
- Rugged construction

## APPLICATIONS:

- Wideband monitoring
- Wideband high-power applications

## PRODUCT DESCRIPTION:

The LPDA-A0036 is a directional log-periodic dipole array that covers the 20 to 3000 MHz frequency band.

The high-power versions of the antenna are intended for high-power applications.

The antenna exhibits a typical gain of 6 dBi over 90% of the band with the polarisation adjustable between vertical and horizontal via a swivel mounting bracket.

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20 – 3000 MHz

Product Code: LPDA-A0036

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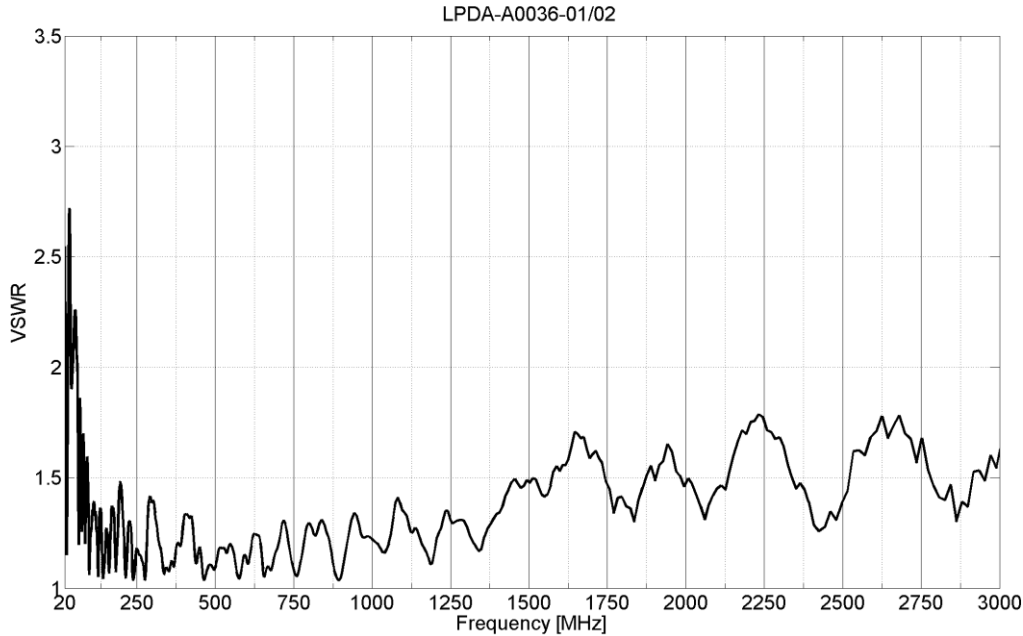
Cyntony Corporation  
195 Follen Road  
Lexington, Massachusetts  
sales@cyntony.com  
781-430-0675



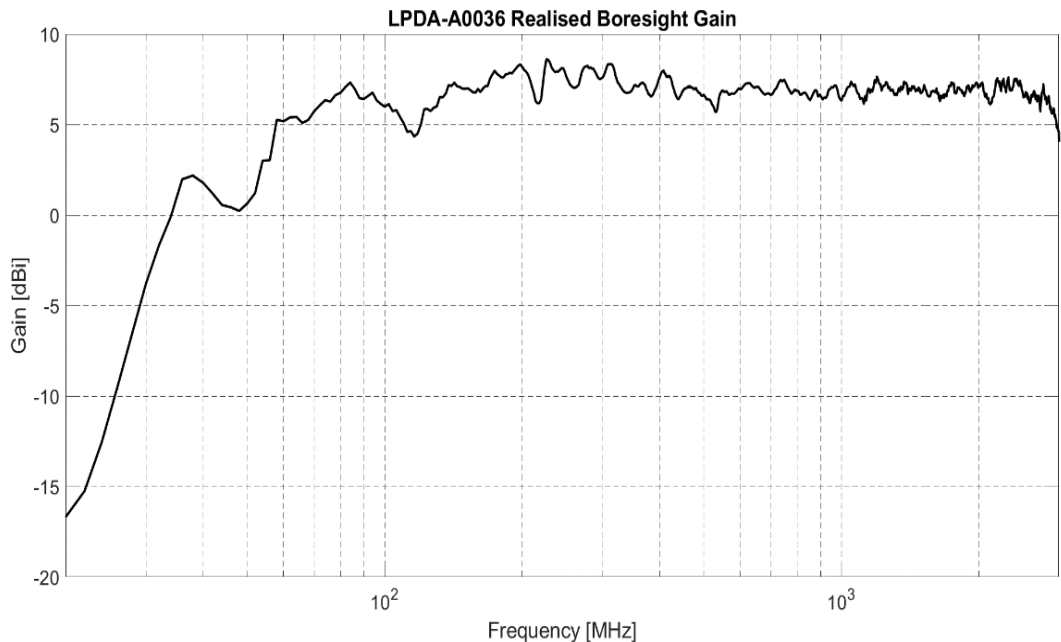
VERSION: 4.3

## DIMENSIONS AND PERFORMANCE GRAPHS:

### VSWR:



### GAIN:



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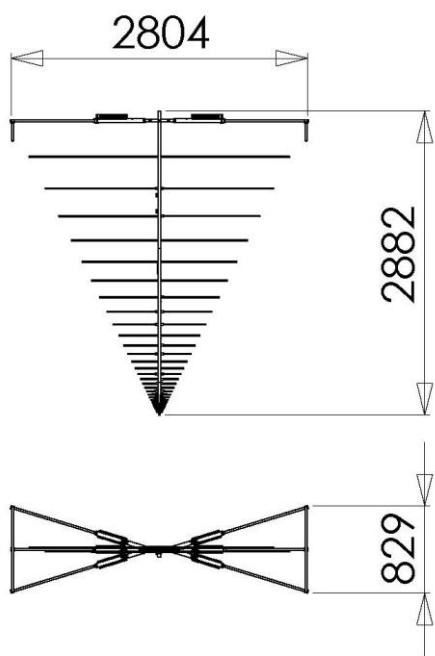
# Wideband LPDA Antenna

20 – 3000 MHz

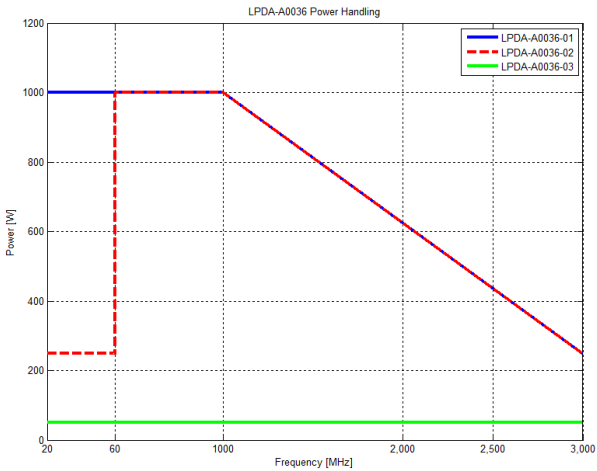
Product Code: LPDA-A0036

VERSION: 4.3

DIMENSIONS:



POWER HANDLING:



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