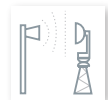
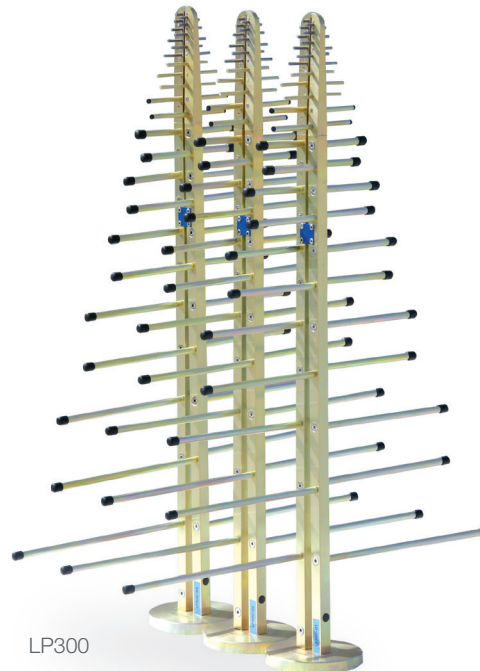
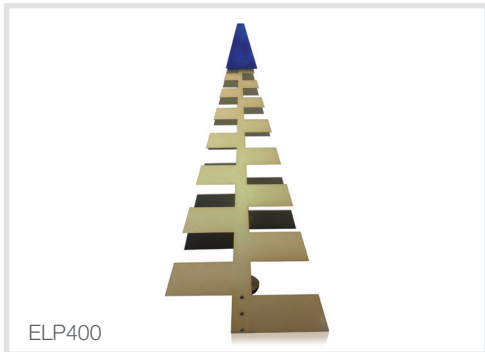


Log Periodic Antennas



SOLUTION FOR

- Illumination of anechoic chambers
- Far-field antenna measurements

Main features

Technical performance

- Low return loss
- High front-to-back ratio
- Constant gain with frequency

Design

- Lightweight
- Minimum wind drag
- For indoor and outdoor use

Surface treatment

- Alodine 1200 according to MIL-C 5541E class 3

Repeatability

- High reliability coaxial connector
- Standard MVG circular interface for precision centering (only available on specified models)

Delivered documents

- Measured return loss data
- Typical performance data (TYMEDA™)

Product configuration

Equipment

- Brackets for pole mounting (Mounting flange available on specified models)
- Protective radome for high frequency models

Related services

- Calibration and maintenance
- Customization

Included Optional

Electrical characteristics

Part number	Frequency range	Polarization	Directivity	Beamwidth E X H plane	Front to Back Ratio	VSWR	Impedance	Power Handling (CW)
STANDARD 5 dBi LPDA								
LP180	180 – 400 MHz	Single linear	5 dBi	140 x 100°	> 15 dB ⁽¹⁾	< 2.5	50 Ohms	100 W
STANDARD 6 dBi LPDA								
LP030	30 – 500 MHz	Single linear	6 dBi	130 x 85°	> 15 dB ⁽²⁾	< 2.5	50 Ohms	500 W
LP031	30 – 1000 MHz	Single linear	6 dBi	130 x 85°	> 15 dB ⁽³⁾	< 2.5	50 Ohms	500 W
LP060	60 – 500 MHz	Single linear	6 dBi	130 x 85°	> 20 dB ⁽⁴⁾	< 2	50 Ohms	500 W
LP075	75 – 3000 MHz	Single linear	6 dBi	130 x 85°	> 15 dB ⁽⁵⁾	< 2.5	50 Ohms	100 W
STANDARD 6.5 dBi LPDA								
LP100	100 – 400 MHz	Single linear	6.5 dBi	110 x 70°	> 20 dB	< 2	50 Ohms	500 W
LP300	300 – 4000 MHz	Single linear	6.5 dBi	110 x 70°	> 20 dB	< 2.5	50 Ohms	50 W
STANDARD 8 dBi LPDA								
LP400	400 – 1000 MHz	Single linear	8 dBi	75 x 55°	> 20 dB	< 2	50 Ohms	200 W
LP450	450 – 1000 MHz	Single linear	8 dBi	75 x 55°	> 23 dB	< 2	50 Ohms	200 W
STANDARD 10 dBi LPDA								
LP1000	1000 – 3000 MHz	Single linear	10 dBi	60 x 50°	> 20 dB	< 2	50 Ohms	70 W
HIGH FREQUENCY LPDA								
LP2500	2500 – 6000 MHz	Single linear	8 dBi	100 x 80°	> 15 dB	< 3	50 Ohms	50 W
EQUALIZED BEAMWIDTHS LPDA								
ELP250	250 – 2500 MHz	Single linear	9 dBi	60 x 60°	> 20 dB	< 3	50 Ohms	80 W
ELP400	400 – 3000 MHz	Single linear	9 dBi	60 x 60°	> 20 dB	< 3	50 Ohms	80 W

(1) From 200 to 3000: 10 dB worst case at 180 MHz

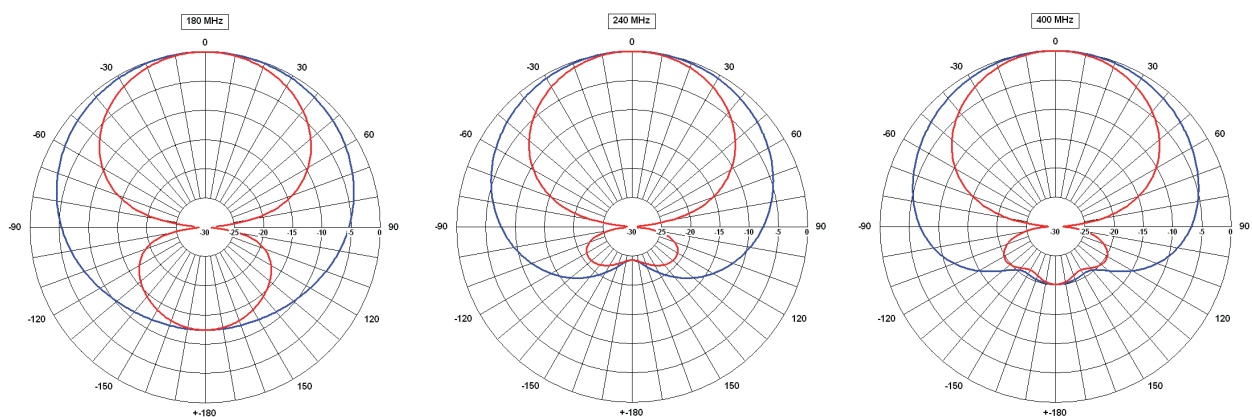
(2) From 60 to 500: 10 dB worst case at 30 MHz

(3) From 60 to 1000: 10 dB worst case at 30 MHz

(4) From 100 to 450: 10 dB worst case at 60 MHz

(5) From 150 to 3000: 10 dB worst case at 75 MHz

LP180 radiation pattern @180 MHz, 240 MHz, 400 MHz



Mechanical characteristics

Part number	Dimensions [mm] (H x W x L)	Weight [kg]	RF Connector	Material	Treatment	Interface	Wind rating [km/h]	Lightening protection
STANDARD 5 dBi LPDA								
LP180	800 x 80 x 700	5	N type Female	Aluminum	Alodine 1200 ⁽¹⁾	Brackets for pole mounting max. Ø 50 mm ⁽²⁾	80	DC grounded
STANDARD 6 dBi LPDA								
LP030 ⁽³⁾	4900 x 100 x 4500	12	N type Female	Aluminum	Alodine 1200 ⁽¹⁾	Brackets for pole mounting max. Ø 50 mm ⁽²⁾	80	DC grounded
LP031 ⁽³⁾	4900 x 100 x 4700	12	N type Female	Aluminum	Alodine 1200 ⁽¹⁾	Brackets for pole mounting max. Ø 50 mm ⁽²⁾	80	DC grounded
LP060 ⁽⁴⁾	2650 x 100 x 2000	8	N type Female	Aluminum	Alodine 1200 ⁽¹⁾	Brackets for pole mounting max. Ø 50 mm ⁽²⁾	80	DC grounded
LP075 ⁽⁴⁾	1950 x 80 x 2000	8	N type Female	Aluminum	Alodine 1200 ⁽¹⁾	Brackets for pole mounting max. Ø 50 mm ⁽²⁾	80	DC grounded
STANDARD 6.5 dBi LPDA								
LP100	1620 x 100 x 1800	8	N type Female	Aluminum	Alodine 1200 ⁽¹⁾	Brackets for pole mounting max. Ø 50 mm ⁽²⁾	80	DC grounded
LP300	500 x 50 x 600	3	SMA Female	Aluminum	Alodine 1200 ⁽¹⁾	MVG circular flange Ø 110 mm	80	DC grounded
STANDARD 8 dBi LPDA								
LP400	350 x 40 x 1000	1	N type Female	Aluminum	Alodine 1200 ⁽¹⁾	Brackets for pole mounting max. Ø 50 mm ⁽²⁾	80	DC grounded
LP450	350 x 40 x 1000	1	N type Female	Aluminum	Alodine 1200 ⁽¹⁾	Brackets for pole mounting max. Ø 50 mm ⁽²⁾	80	DC grounded
STANDARD 10 dBi LPDA								
LP1000	155 x 30 x 600	1	SMA Female	Aluminum	Alodine 1200 ⁽¹⁾	MVG circular flange Ø 110 mm	80	DC grounded
HIGH FREQUENCY LPDA								
LP2500	220 x 300 x 220	1.5	SMA Female	Aluminum	Alodine 1200 ⁽¹⁾	MVG circular flange Ø 110 mm	80	DC grounded
EQUALIZED BEAMWIDTHS LPDA								
ELP250	760 x 1311 x 783	8.7	SMA Female	Aluminum	Alodine 1200 ⁽¹⁾	MVG circular flange Ø 110 mm	80	DC grounded
ELP400	475 x 838 x 490	3	SMA Female	Aluminum	Alodine 1200 ⁽¹⁾	MVG circular flange Ø 110 mm	80	DC grounded

(1) Equivalent to MIL-C 5541E class 3

(2) Mounting brackets allow pole mounting in horizontal and vertical polarizations

(3) The antenna boom can be disassembled in three parts and the larger elements can be easily detached from the boom.

(4) The antenna boom can be disassembled in two parts and the larger elements can be easily detached from the boom.

