



**LPD-7** (horizontal polarization shown)

## LOG PERIODIC ANTENNAS

### • LPD-7, LPD-12

The LPD Series Log Periodic antennas are rugged for harsh environments. Two models are available LPD-7 and LPD-12. These Log Antennas are broadband and have flat gain levels across the entire frequency range. This broadband design minimizes de-tuning caused by ice. The antennas are cantilever mounted for ease of installation. All mounting hardware is included to mount up to a 3" O.D. pipe. The antennas are made of aluminum for light weight and longevity.

#### ELECTRICAL SPECIFICATIONS

MODEL	LPD-7	LPD-12
Frequency (MHz)	190-250	225-400
Gain (dBi min)	8.0	10.0
VSWR (max)	1.55:1	1.55:1
Polarization	Horizontal or Vertical	Horizontal or Vertical
Half-power Beam Width		
E-Plane	50 deg	40 deg
H-Plane	80 deg	60 deg
Front-to-Back Ratio (dB)	28	30
Impedence	50 Ohm	50 Ohm
Terminal Impedence	N Female	N Female
Maximum Power	500 Watts	500 Watts

#### WIND LOADING

MODEL	LPD-7	LPD-12	
<b>Wind Load Area (Sq. Ft.)</b>	No Ice	1.12	1.38
	0.5" Radial Ice	1.90	2.35
<b>Wind Load (Ft.-Lbs.)</b>	* No Ice, 100 mph wind	109	134
	** 0.5" Radial Ice, 50 mph wind	52	64

#### NOTES:

\* Wind Speed = 100 MPH at sea level with 100% Humidity at 70° F

\*\* Wind Speed = 50 MPH at sea level with 100% Humidity at 0° F

#### MECHANICAL SPECIFICATIONS

MODEL	LPD-7	LPD-12
Length	64.625 in (164.15 cm)	79.50 in (201.93 cm)
Number of Elements	7	12
Longest Element	32 in (81.3 cm)	26.75 in (67.95 cm)
Weight	9.5 lbs (4.3 kg)	14 lbs (6.35 kg)
Mounting	3 in O.D. max (7.82 cm)	3 in O.D. max (7.82 cm)
Operating Temperature	-40 to +80	-40 to +80

TACO Antenna's ongoing policy of continuing development may result in specification changes to its products.

#### US AND INTERNATIONAL SALES AGENT

##### TACO Antenna Sales Rep

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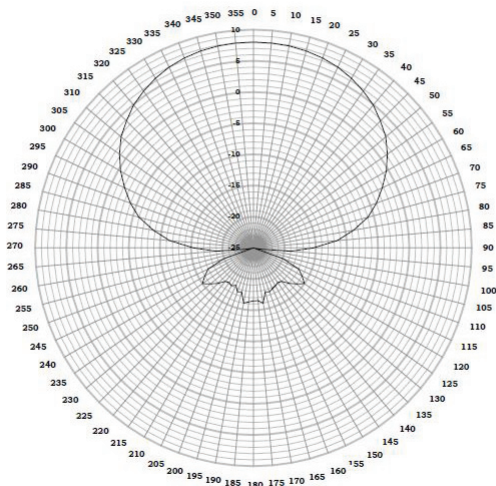
#### CANADIAN SALES OFFICE

##### TACO Antenna

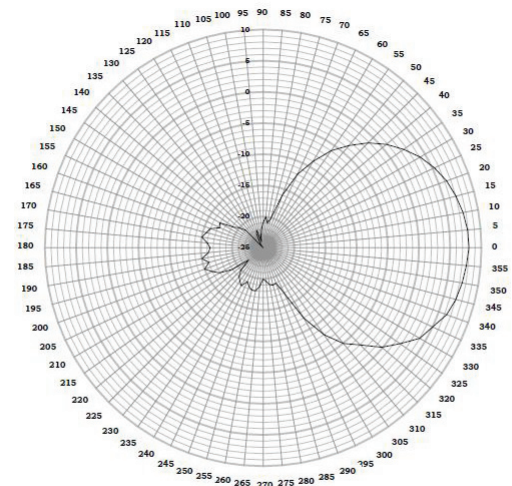
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 cansales@tacoantenna.com

## LOG PERIODIC ANTENNA PATTERNS

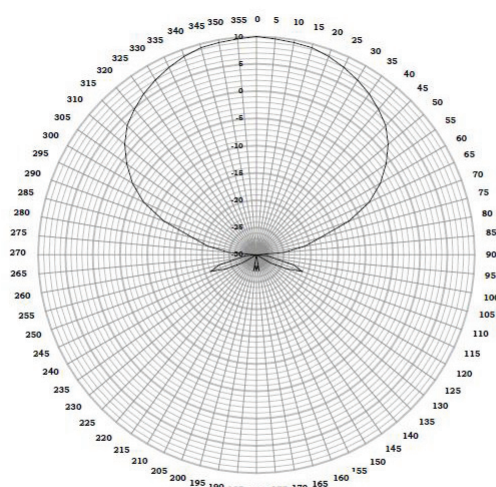
LPD-7 H-PLANE



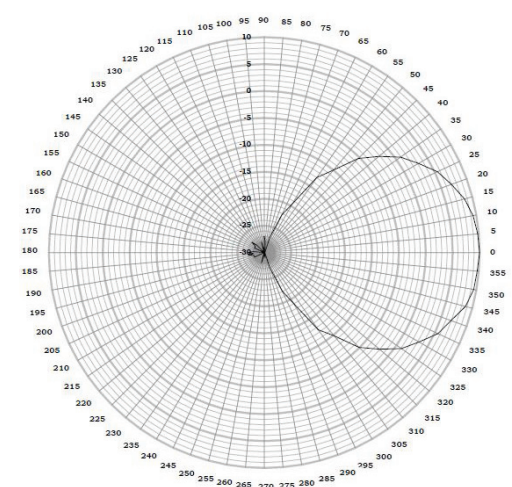
LPD-7 E-PLANE



LPD-12 H-PLANE



LPD-12 E-PLANE



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