



LPD-12 (vertical polarization shown)

## Log Periodic Antennas

### Models 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	40
	H-PLANE	80	60
FRONT-TO-BACK RATIO (dB)		28	30
IMPEDANCE (Ohm)		50	50
TERMINAL IMPEDANCE		N Female	N Female
MAXIMUM POWER (Watts)		500	500

### WIND LOAD SPECIFICATIONS

MODEL		LPD-7	LPD-12
WIND LOAD AREA (sq. ft.)	No Ice	1.12	1.38
	0.5" Radial Ice	1.90	2.35
WIND LOAD (ft.-lbs.)	* No Ice, 100 MPH wind	109	134
	** 0.5" Radial Ice, 50 MPH wind	52	64

\* 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 – in (cm)	66.625 (164.15)	79.50 (201.93)
NUMBER OF ELEMENTS	7	12
LONGEST ELEMENT – in (cm)	32 (81.3)	26.75 (67.95)
WEIGHT – lbs (kg)	9.5 (4.3)	14 (6.35)
MOUNTING – in (cm)	3 O.D. max (7.82)	3 O.D. max (7.82)
OPERATING TEMPERATURE	-40 to +80	-40 to +80



LPD-7 (horizontal polarization shown)

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

#### TACO ANTENNA

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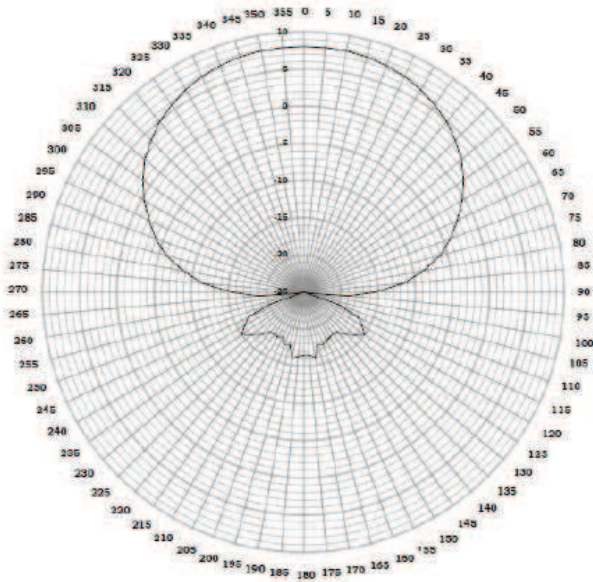
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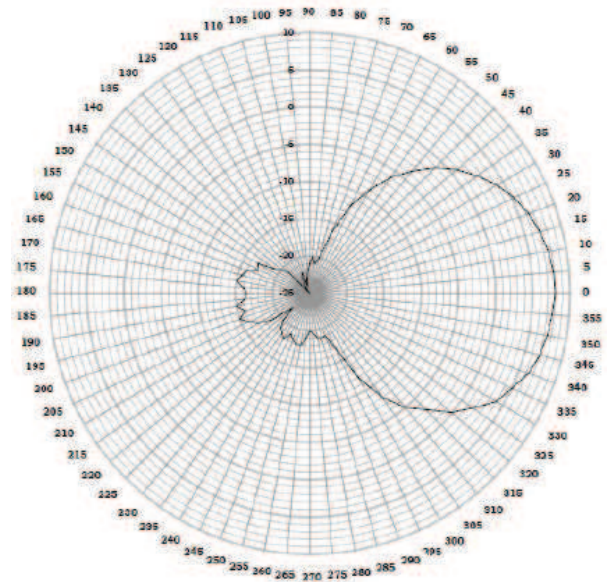
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### ELECTRICAL SPECIFICATIONS

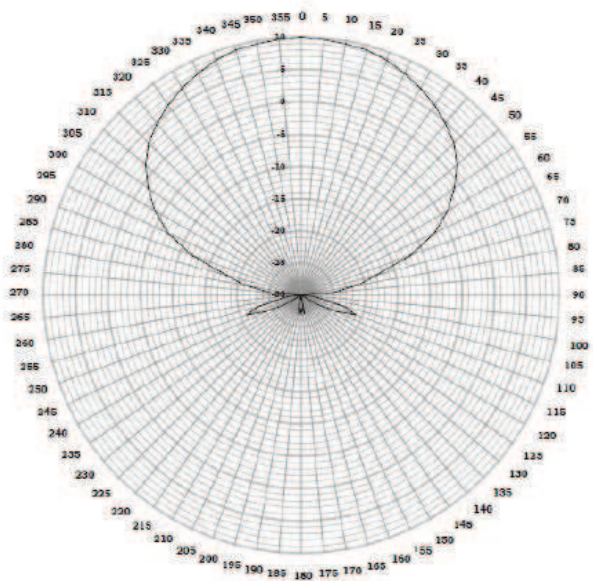
LPD-7 H-PLANE



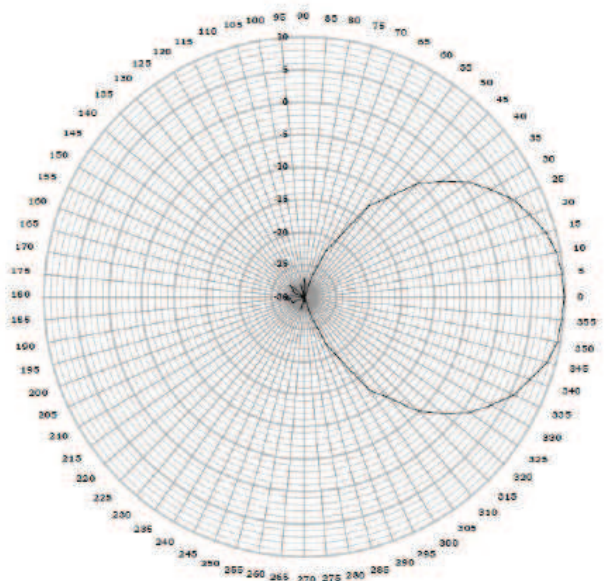
LPD-7 E-PLANE



LPD-12 H-PLANE



LPD-12 E-PLANE



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