



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.)	1.75:1	1.75:1	
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

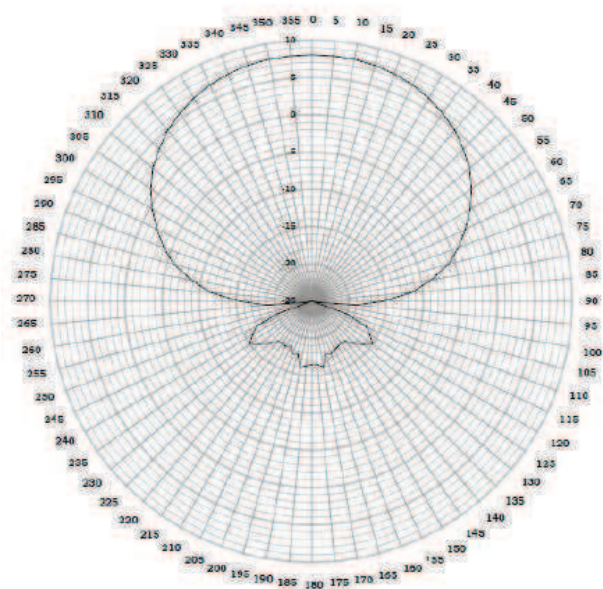


LPD-7 (horizontal polarization shown)

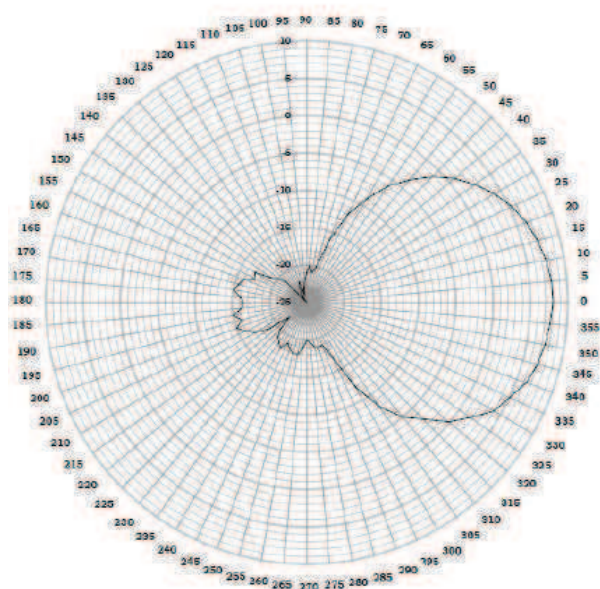
TACO Antenna's ongoing policy of continuing development may result in specification changes to its products.

ELECTRICAL SPECIFICATIONS

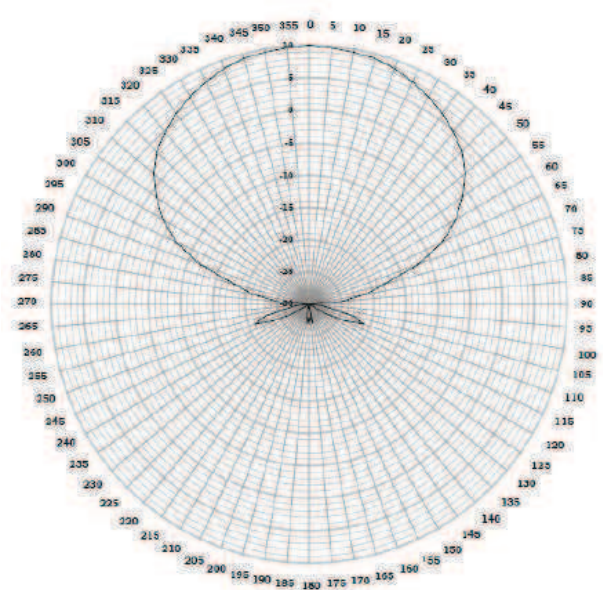
LPD-7 H-PLANE



LPD-7 E-PLANE



LPD-12 H-PLANE



LPD-12 E-PLANE

