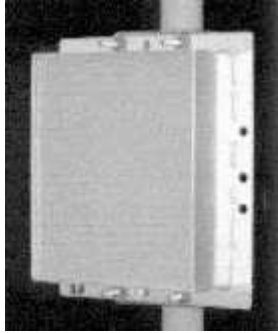


# LUMISTAR

## LS-08-PL L-Band Panel Antenna with 11 dBi Gain Data Sheet

### Description:

The Lumistar LS-08-PL L-Band Panel Antenna is the ideal companion to the LS-25 Series



Receiver to provide a low cost receiving system with extremely high performance. This medium size, lightweight antenna is available in either Horizontal or Vertical polarization. It can be mounted to a pole, or purchased with the optional tripod.

This medium gain antenna consists of a broadband dipole enclosed in an aluminum cavity with a UV stabilized ASA radome for superior weatherability. The antenna is at DC ground to aid in lightning protection.

### Key Features:

- 1425 to 1540 MHz
- 11 dBi Gain
- Medium size, light weight
- Inexpensive
- Available in Vertical, or Horizontal Polarization
- Horizontal Beamwidth = 48 degrees; Vertical Beamwidth = 52 degrees

### Applicable Models:

LS-08-PLH L-Band Panel Antenna - Horizontally Polarized  
LS-08-PLV L-Band Panel Antenna - Vertically Polarized

### SPECIFICATIONS:

#### Performance:

Frequency Range	1425 MHz to 1540 MHz
Impedance/VSWR	50 Ohm/1.5:1
Gain	11 dBi
Beam-width horizontal	48°
Beam-width vertical	52°
Front to back ratio	25 dB min.

# LUMISTAR

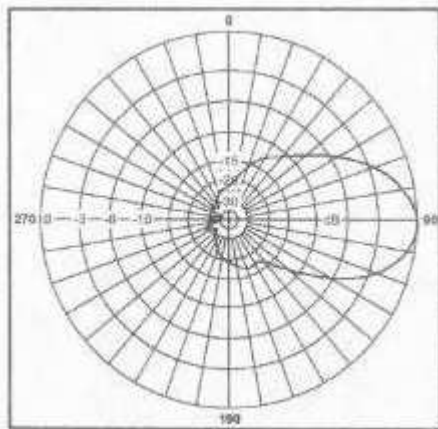
## LS-08-PL L-Band Panel Antenna with 11dBi Gain Data Sheet

### Physical and Environmental:

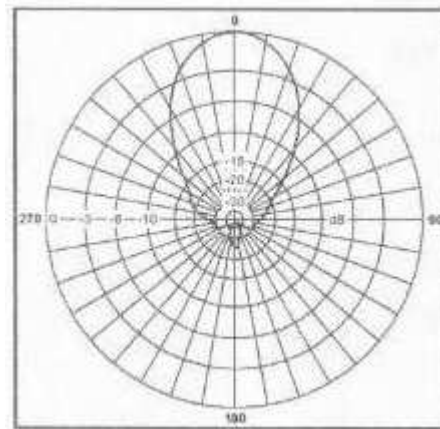
Dimensions (L x W x H)	14 in x 12 in x 4 in (356 mm x 305 mm x 102 mm)
Weight	5 lbs (2.3 kg)
Housing material	ASA and Aluminum
Radome material	UV Stabilized ASA
Radome color	Grey
Rated Wind Velocity	125 mph (200 km/h)
Connector	N female

### Typical Radiation Patterns:

Amplitude [dB]  
Angle [deg]



Vertical



Horizontal

### Lumistar Companion Products:

LS-25 Series

Telemetry Receiver and Down Converter

LS-11 Series

Test Transmitter

LS-18 Series

Telemetry Simulators

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*Specifications are subject to change. Please verify the latest specifications at time of order.*

4-15-08