

# LUMISTAR

## LS-08-PS S-Band Planar Antennas with 8 dBi Gain Data Sheet

### Description:



The Lumistar LS-08-PS S-Band Planar Antenna is the ideal companion to the LS-25 Series Receiver to provide a low cost receiving system with extremely high performance. This small, lightweight antenna is available in various polarizations. The Standard version offers the quickest delivery, but other versions including ones with Polarization Diversity.

Combining (dual linear with  $\pm 45$  slant range) is also available.

### Key Features:

- Available in Lower or Upper S-Band
- 8 dBi Gain
- Small size, light weight
- Inexpensive
- Available in RHCP, LHCP, Vertical, or Horizontal Polarization
- Available in Polarization Diversity (dual antenna) configurations
- Tripod Optional

### Applicable Models:

LS-08-PSR	S-Band Planar Antenna RH Circularly Polarized (Standard)
LS-08-PSL	S-Band Planar Antenna LH Circularly Polarized (Standard)
LS-08-PSV	S-Band Planar Antenna Vertical (Standard)
LS-08-PSH	S-Band Planar Antenna Horizontal (Optional)
LS-08-PSD	S-Band Planar Antenna Diversity (Optional)

Note: Optional products require special order and require longer delivery

### SPECIFICATIONS:

#### Performance:

Frequency Range	2,200 MHz to 2,400 MHz
Impedance/VSWR	50 Ohm/1.5:1
Gain (typical)	8 dBi
3 dB beam-width horizontal	70°
3 dB beam-width vertical	65°
Down-tilt	0°
Front to back ratio	20 dB

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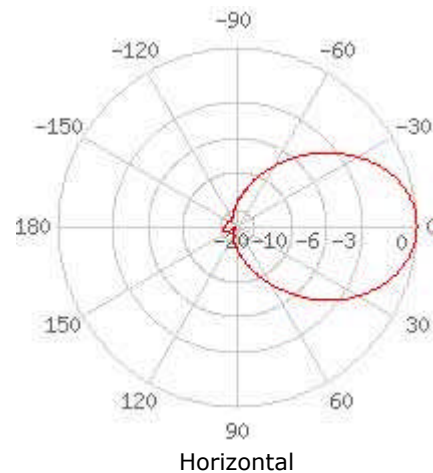
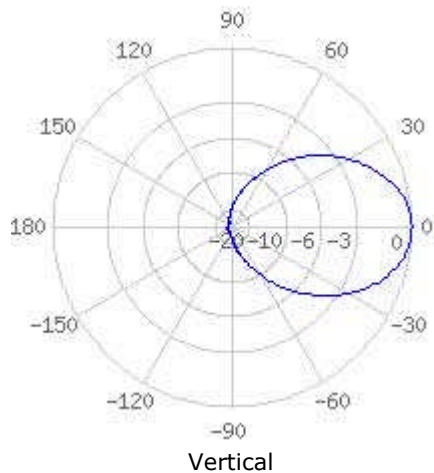
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### Physical and Environmental:

Dimensions (L x W x H)	3.98 in x 3.74 in x 1.26 in (101 mm x 95 mm x 32 mm)
Weight	0.22 lbs (0.1 kg)
Housing material	ASA and Aluminum
Radome material	ASA
Radome color	Light-grey
Mounting bracket color	Dark-grey
Operational temperature range	-40 °C to 80 °C
Storage temperature range	-40 °C to 80 °C
Max. wind-load	15 N at 160 km/h (100 mph)
Connector	SMA female (TNC Optional)

### Typical Radiation Patterns:

Amplitude [dB]  
Angle [deg]



### Lumistar Companion Products:

LS-25 Series

LS-11 Series

LS-18 Series

Telemetry Receivers and Down Converters

Test Transmitter

Telemetry Simulators

Lumistar, Inc.

5870 El Camino Real

Carlsbad, CA 92008

PHONE: 760-431-2181

FAX: 760-431-2665

EMAIL: [sales@lumistar.net](mailto:sales@lumistar.net)

<http://www.lumi-star.com>

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

4-15-08