

# 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-25/27/28 Series Receivers 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:

- Covers both Lower and Upper S-Band
- 8 dBi Gain
- Small size, light weight
- Inexpensive
- Available in RHCP, LHCP, Vertical, or Horizontal Polarization
- Tripod Optional (Model Number: LS-08-T)

### 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)

Note: Optional products may 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

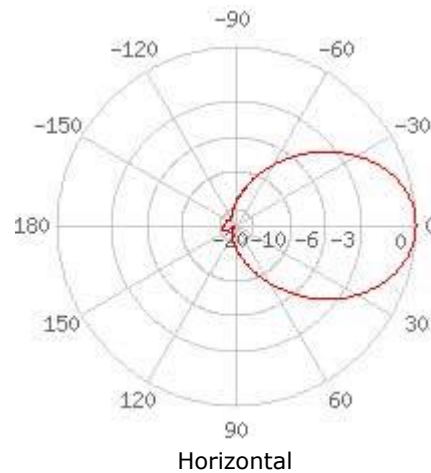
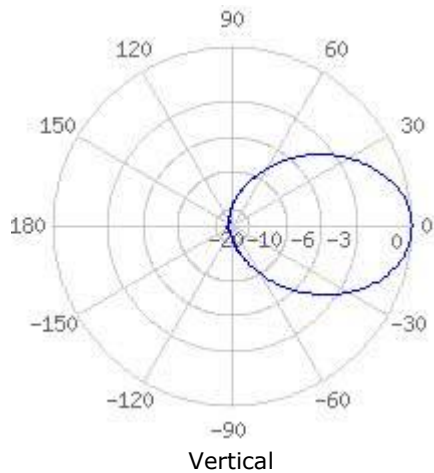
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## Physical and Environmental:

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-25/27/28 Series

LS-11M3 Series

LS-18 Series

Telemetry Receivers and Down Converters

Test Transmitter

Telemetry Simulators/Transmitters