



SIGNAL ANTENNA SYSTEMS

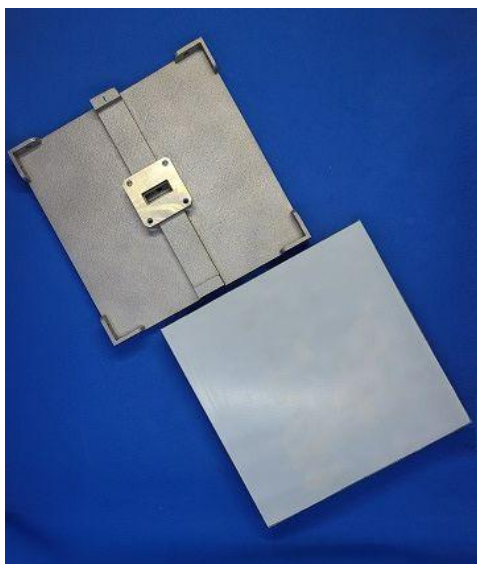
MODEL: XFP-100525-LP-1000

Product Data Sheet

XFP-100525-LP-1000: Flat Panel Antenna

The model is a directional, medium gain, linearly polarized antenna covering an operating frequency band from 9.75 to 10.25 GHz. Flat panel antennas are waveguide array radiators allowing for excellent radiation efficiency over the operating frequency band. Monolithic construction from aluminum alloy ensures lightweight, robustness, and repeatable RF performance. The radiating face of the antenna is covered with protective fiberglass cover for environmental sealing.

Modular design allows combining of two or four antennas with external waveguide combiner to increase radiating aperture size and gain.



PERFORMANCE CHARACTERISTICS

Frequency Range	9.75 – 10.25 MHz
Antenna Gain	25.0 dBi
3-dB Beamwidth (E-Plane)	9.7°
3-dB Beamwidth (H-Plane)	9.1°
Sidelobes (E & H Plane)	12 dB
Polarization	Linear (Vertical)
Cross-Polarization (On Axis)	25 dB
VSWR	1.5:1
Power Handling	400 Watts
MECHANICAL	
Dimensions	6.75" x 6.75" x 0.88"
Weight	9.0 oz
INTERFACE	
WR-90 Flange	
ENVIRONMENTAL	
Operating Temperature	-55° to 75°
Altitude	50,000 ft
Humidity	100% Non-Cond.
NOTES	
Customized mounting and paint options on request	

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