

Dual-Polarized Directional Panel Antenna -PRELIMINARY-

The FP directional panel antenna series was designed to cover frequencies used in industrial wireless applications and to obtain maximum gain with an attractive, low-profile package. These models provide efficient and stable performance across the band and can be mounted indoors or outdoors.

Features

- ASA radome and PC board conform to the UL-HB flame retardant rating, allowing maximum installation flexibility
- Attractive, low-profile housing allows antenna to blend well in indoor or outdoor environments where aesthetic considerations are important
- Fully adjustable mounting bracket for pipe or wall mount installations



Front View



Mount View

RF/Electrical Specifications

Model	Frequency Range	Nominal Gain
FP1400-13DP	1.39-1.46 GHz	13 dBi ± 1 dB
FP1800-15DP	1.80-1.83 GHz	15 dBi ± 1 dB
FP2327-18DP	2.30-2.70 GHz	17.5 dBi ± 1 dB
FP3338-18DP	3.30-3.80 GHz	18.5 dBi ± 1 dB
FP4959-22DP	4.90-5.90 GHz	22 dBi ± 1 dB

Model	3 dB Horizontal Beamwidth	3 dB Vertical Beamwidth	Front-to-Back Ratio
FP1400-13DP	35°	35°	> 23 dB
FP1800-15DP	22°	22°	> 25 dB
FP2327-18DP	20°	20°	> 27 dB
FP3338-18DP	17°	17°	> 27 dB
FP4959-22DP	9°	9°	> 30 dB

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range
All Models	14.5" x 14.5" x 1.75" (340 x 340 x 30 mm)	3.5 lbs (1.6 kg)	-40° C to +85° C

Technical Data

Maximum Power: 20 watts
Polarization: Dual Linear, H/V or +/-45° slant
Nominal Impedance: 50 ohms
VSWR: 1.5:1 typical 2.0:1 maximum
Radome Material: UL-HB rated ASA plastic
Termination: 2 x Type N Female Panel Mount Connectors
Mounting Method: Fully adjustable pipe or wall mount, optional heavy duty mount

