Dual-Polarized Directional Panel Antenna



FP1800-15DP



FPM-1001 Mount

PCTEL's 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 94 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
- Meets stringent building code requirements
- Panel mounted type N female connector

STANDARD CONFIGURATION

Model	Connector	Mount
FP1800-15DP	2 x Type N Female Panel Mount Connectors	FPM-1001 fully adjustable mount is included. Suitable for wall or mast mount installations (all models)
FP2327-18DP	2 x Type N Female Panel Mount Connectors	
FP3637-18DP	2 x Type N Female Panel Mount Connectors	
FP4959-22DP	2 x Type N Female Panel Mount Connectors	

ELECTRICAL SPECIFICATIONS - RF ANTENNA

Model	Frequency Range	Gain	VSWR	Azimuth Half Power Beamwidth	Elevation Half Power Beamwidth
FP1800-15DP	1.80-1.83 GHz	15 dBi ± 1 dB	1.5:1 typical, 2.0:1 maximum	22°	22°
FP2327-18DP	2.30-2.70 GHz	17.5 dBi ± 1 dB	1.5:1 typical, 2.0:1 maximum	20°	20°
FP3637-18DP	3.6-3.75 GHz	18.5 dBi ± 1 dB	1.7:1 typical, 2.0:1 maximum	17°	17°
FP4959-22DP	4.9-5.9 GHz	22.5 dBi +/- 1 dB	1.5:1 typical, 2.0:1 maximum	9°	9°

ELECTRICAL SPECIFICATIONS - RF ANTENNA, continued

Model	Front to Back Ratio	Average Power	Nominal Impedance	Polarization
FP1800-15DP	> 25 dB	20 watts	50 ohms	Dual Linear, H/V or ±45° slant
FP2327-18DP	> 27 dB	20 watts	50 ohms	Dual Linear, H/V or ±45° slant
FP3637-18DP	> 30 dB	20 watts	50 ohms	Dual Linear, H/V or ±45° slant
FP4959-22DP	> 29 dB	20 watts	50 ohms	Dual Linear, H/V or ±45° slant

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Dimensions	Weight	Housing Material	Rated Wind	Temperature Range
14.5 x 14.5 x 1.57 in (368 x 368 x 40 mm)	3.5 lbs (1.6 kg)	UL 94 HB ASA radome	125 mph	-40°C to +85°C