

WISPerformance Series Sector Panel Antennas

These WISPerformance sector panels provide coverage of 2.7 GHz to 2.9 GHz frequencies with a VSWR performance of less than 1.5:1. Their electrical design provides outstanding front-to-back ratio performance ensuring that the radiated energy is focused towards its targeted area.

Two models are available that provide vertical or horizontal polarization options, both featuring field adjustable horizontal beamwidths of 60° or 90°. Their efficient gain performance and compact UV resistant housing provide outstanding coverage and maximum installation flexibility where tower space is limited. In addition, they include an adjustable pipe mount that permits +/-15° uptilt or downtilt of the antenna to adjust to the requirements of the coverage area.

General Specifications:

Radome Material:

Gray, UV resistant plastic

Backplane:

High strength aluminum extrusion

Termination:

N, female bulkhead

Polarization:

Vertical (WISP28016MBV)
Horizontal (MSP28016MBH)

Lighting Protection:

DC grounded

Mounting Method:

Adjustable pipe mount (included)

Nominal Impedance:

50 Ohms



WISP28016MBH

Feature and Benefits:

- Cover 2.7 to 2.9 GHz frequencies with excellent VSWR performance.
- Outstanding front-to-back ratio ensures that the radiated energy is controlled towards the area of coverage and minimized behind the antenna.
- Includes adjustable pipe mount that permits uptilt or downtilt adjustment of +/-15 degrees for more precise coverage of the geographic area.
- Models available for vertical or horizontal polarization.

Electrical Specifications

Model #	Frequency Range	Nominal Gain (+/- 0.5)	Front-to-Back Ratio	Horizontal Plane Beamwidth	E-Plane Beamwidth	Typical Cross Poll Discrimination	VSWR	Maximum Power Input
WISP28016MBH	2700-2900 MHz	16 dBi at 60° 14 dBi at 90°	> 25 dB	90° or 60° (adjustable)	13°	> 20 dB	< 1.5:1	30 Watts
WISP28016MBV	2700-2900 MHz	16 dBi at 60° 14 dBi at 90°	> 35 dB	90° or 60° (adjustable)	13°	> 20 dB	< 1.5:1	30 Watts

Mechanical Specifications

Model #	Rated Wind Velocity	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area	Temperature Range	Dimensions	Weight
WISP28016MBH	125 mph	40 lbf without flaps 104 lbf with flaps	.44 ft² without flaps 1.16 ft² with flaps	-30°C to 75° C	24" L x 4" W x 3" D (without flaps) (609 mm L x 101 mm W x 76 mm D) 24" L x 6" W x 3" D (with flaps)	4.5 lbs (2.1 Kg)
WISP28016MBV	125 mph	40 lbf without flaps 104 lbf with flaps	.44 ft² without flaps 1.16 ft² with flaps	-30°C to 75° C	24" L x 4" W x 3" D (without flaps) (609 mm L x 101 mm W x 76 mm D) 24" L x 6" W x 3" D (with flaps)	4.5 lbs (2.1 Kg)