

MBS Series, UHF/VHF Aluminum Omnidirectional Antennas

The MBS VHF/UHF base station antennas feature 6061-T6 seamless aluminum construction and a no ground plane design for simplified mounting.

Features

- Base matched 1/2 wave vertical antenna requiring no ground plane or radials for effective operation
- Easily adjusted to exact operating frequency
- All stainless steel hardware
- 6061-T6 seamless aluminum



MBS150

Antenna Electrical Specifications

Model	Frequency Range	Factory Tuned Frequency	Gain	Bandwidth @ 1.5:1 VSWR	Vertical Beamwidth @ 1/2 Power
MBS150	144-174 MHz	Antennas are field tunable within the specified frequency range.	Unity	6 MHz	70°
MBS450	450-470 MHz		Unity	20 MHz	52°



Mechanical Specifications

Model	Antenna Height	Weight (Mass)	Lateral Thrust at Rated Wind	Bending Moment at Rated Wind	Equivalent Flat Plate Area
MBS150	43"	1.1 lbs	6.7 lbs	12 ft-lbs	.17 ft ²
MBS450	15"	.04 lbs	2.0 lbs	1.2 ft-lbs	.05 ft ²

Technical Data

Maximum Power: 250 watts
Normal Impedance: 50 ohms
Radiator Material: 6061-T6 aluminum tubing
Lightning Protection: DC grounded
Wind Survival: 90 mph
Termination: SO-239 standard; N female connector is optional
Maximum Mounting Pipe Diameter: VHF: 1-1/4" UHF: 1"
Mounting Method: Built-in clamp (included)

For detailed specifications, visit <http://antenna.pctel.com>.

Suffix N indicates N connector option. Please add \$3.00 for N connector.