

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°

MAXRAD

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)

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"	.0.4 lbs	2.0 lbs	1.2 ft-lbs	.05 ft ²

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

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