MBX450

MXB Series, UHF/VHF Aluminum Omnidirectional Antennas

The MBX VHF/UHF antennas offer an economical choice for omnidirectional high gain applications. The 6061-T6 aluminum tubing and stainless steel hardware provides years of trouble free service.

Features

- Base matched vertical collinear antenna with phasing stub coupling for efficient operation without radials
- Adjustment to exact operation frequency with stainless steel full-lock clamps

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 **www.solidsignal.com**

Antenna Electrical Specifications

Model	Frequency Range	Factory Tuned Frequency	Gain	Bandwidth @ 1.5:1 VSWR	Vertical Beamwidth @ 1/2 Power
MBX150(N)	144-174 MHz	Antennas are field tunable within the specified frequency range.	3 dB	4 MHz	27°
MBX450(N)	450-470 MHz		3 dB	14 MHz	30°

Mechanical Specifications

Model	Height at Lowest Frequency	Weight (Mass)	Lateral Thrust at Rated Wind	Bending Moment at Rated Wind	Equivalent Flat Plate Area
MBX150(N)	110"	1.7 lbs	12.4 lbs	56.7 ft-lbs	.32 sq ft
MBX450(N)	30"	0.6 lbs	3.2 lbs	4 ft-lbs	.09 sq ft

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