



## DB420-B

**1-port omni exposed dipole antenna, 450–470 MHz, 360° HPBW, fixed electrical tilt**

- Broad response
- Moisture resistant
- Rugged, reliable design

### Electrical Specifications

Frequency Band, MHz	450–470
Gain, dBi	11.3
Beamwidth, Horizontal, degrees	360
Beamwidth, Vertical, degrees	7.0
Beam Tilt, degrees	0
VSWR   Return Loss, dB	1.5   14.0
Input Power per Port, maximum, watts	250
Polarization	Vertical
Impedance	50 ohm

### General Specifications

Operating Frequency Band	450 – 470 MHz
Antenna Type	Omni
Band	Single band
Performance Note	Outdoor usage

### Mechanical Specifications

RF Connector Quantity, total	1
RF Connector Quantity, low band	1
RF Connector Interface	N Male
Color	Silver
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Aluminum
RF Connector Location	End of flexible lead
Wind Loading, maximum	591.6 N @ 100 mph 133.0 lbf @ 100 mph
Wind Speed, maximum	161 km/h   100 mph

### Dimensions

Length	5918.2 mm   233.0 in
Net Weight, without mounting kit	15.6 kg   34.4 lb

### Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)

DB420-B

ISO 9001:2008

Designed, manufactured and/or distributed under this quality management system



## Included Products

DB365-OS — Pipe Mounting Kit that consists of two clamps for mounting antennas to round members 1.25 - 3.5 in (35 - 89 mm) OD round members.

## \* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance