



**FEATURES AND BENEFITS**

- ½ wave NGP design for true 2-dBi performance
- Easy installation with optional NMO mounts
- Special UV-treated radome – resists sun damage
- 100% tested on a network analyzer

**ELECTRICAL SPECIFICATIONS**

|                                       |                 |
|---------------------------------------|-----------------|
| Model Name                            | B(B)4502N       |
| Operating Frequency (MHz)             | 450-470         |
| VSWR – Max                            | <2:1            |
| Gain (dBi)                            | 2.0             |
| Nominal Impedance (Ohms)              | 50              |
| Max Power - Ambient 25°C (W)          | 100             |
| Polarization                          | Vertical        |
| Pattern                               | Omnidirectional |
| Elevation Plane 3 dB Beamwidth Port 1 | 110°            |
| Azimuth Plane 3 dB Beamwidth Port 1   | 360°            |

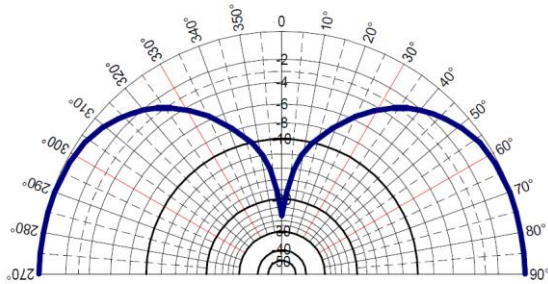
**MECHANICAL SPECIFICATIONS**

|                                  |   |
|----------------------------------|---|
| Dimensions – H x D – mm (inches) | 320.0 x 36.8 (12.6 x 1.45)                            |
| Weight – kg (lbs.)               | 0.172 (0.379)   |
| Flat Plate Area – square feet    | 0.02  |
| Cable Type                       | N/A   |
| Mounting                         | NMO mountable   |
| Noise Suppressor                 | BlackHawk NS 1535 1-35 volt, 15 Amp (sold separately) |

**ENVIRONMENTAL SPECIFICATIONS**

|  |           |
|--|-----------|
| Rated Wind Velocity – kph (mph)                        | 210 (125) |
| Rated Wind Velocity (with 0.5" radial ice) – kph (mph) | 137 (85)  |
| Lateral Thrust @ 125 mph wind velocity – kg (lbs.)     | 26 (57)   |
| Material Substance Compliance                          | RoHS      |

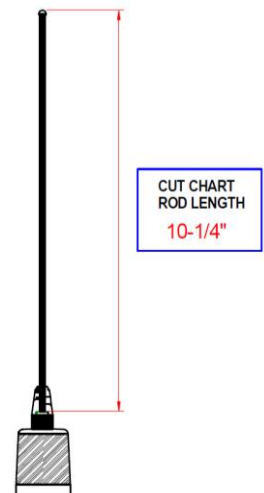
**RADIATION PATTERN**



Normalized to 2dBi  
Elevation Pattern (Y, Z or H-plane)

**CUTTING CHART**

| FREQUENCY (MHz) | ROD w/ SPRING | ROD ONLY    |
|-----------------|---------------|-------------|
| 450             | 10-1/4 in.    | N/A         |
| 455             | 10 in.        | 10-3/8 in.  |
| 460             | 9-3/4 in.     | 10 in.      |
| 465             | 9-9/16 in.    | 9-13/16 in. |
| 470             | 9-1/4 in.     | 9-1/2 in.   |



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