

Omnidirectional Antenna Series

The Omnidirectional Antenna Series are available in VHF, UHF and 700/800/900 MHz configurations. These omnidirectional antennas are wide-band and unity gain. They are constructed from high strength, corrosion resistant aluminum alloy and stainless steel. All our antennas can be completely customized to your particular applications.

- Each antenna has a rugged design to withstand the most extreme environmental conditions.
- The mounting hardware supplied will permit 0.75" to 2.3/8" O.D. pipe installation.
- DC ground for lightning protection.
- Because of the very large bandwidth, these are ideal antennas to stock, whether for emergency use or for resale.

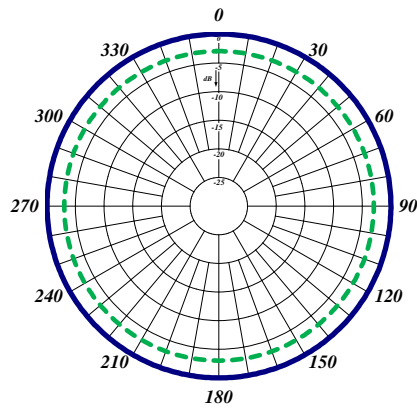
| Electrical Specifications | 201-70 | 301-70 | 401-70 |
|--|----------------|-----------------------|-----------------------|
| Frequency Range, MHz (in splits) | 25-174 MHz | 406-512 | 746-960 |
| Nominal Gain | Unity | | |
| Bandwidth 1.5:1 VSWR, MHz | 2% | 20 | 10% |
| Polarization | Vertical | Vertical | Vertical |
| Vertical Beam width (Ver. Pol.) | 78° | 75° | 75° |
| Pattern | Omni | | |
| Power Rating, Watts | 500 | 100 | 100 |
| Nominal Impedance, Ohms | 50 | 50 | 50 |
| Lightning Protection | Star Gap | DC Ground | DC Ground |
| Standard Termination | Type N Male | | |
| Mechanical Specifications | 201-70 | 301-70 | 401-70 |
| Max. Length, in (mm) | 229 (5817) | 24 (610) | 21 (533) |
| Skirt Diameter, in (mm) | 2.625 (67) | N/A | N/A |
| Whip Diameter, in (mm) | 0.75 (19) | N/A | N/A |
| Weight, lbs. (kg) | 17 (7.7) | 1.4 (0.7) | 1 (0.45) |
| Rated Wind Velocity, no ice, mph (km/h) | 115 (185) | 150 (241) | 150 (241) |
| Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h) | N/A | 100 (161) | 100 (161) |
| Lateral Thrust @ 100 mph, ft.*lb (kg*m) | 67 (30.4) | 3.9 (1.8) | 3.4 (1.6) |
| Bending Moment @top clamp: 100 mph, ft.*lb (kg*m) | 308 (42.6) | 1.84 (0.25) | 1.87 (0.26) |
| Projected Area, ft ² (m ²) | 2.5 (0.23) | 0.15 (0.014) | 0.13 (0.019) |
| Mounting Information Mast O.D. (mm) or Hardware Included | 1.7" (42) O.D. | 167-85 Clamp Included | 167-85 Clamp Included |



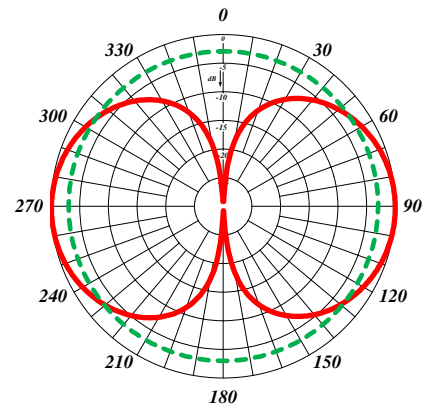
401-70



201-70



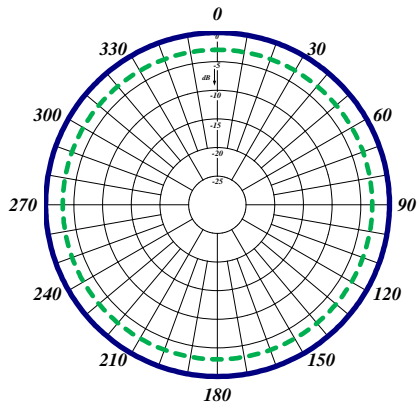
Horizontal Pattern



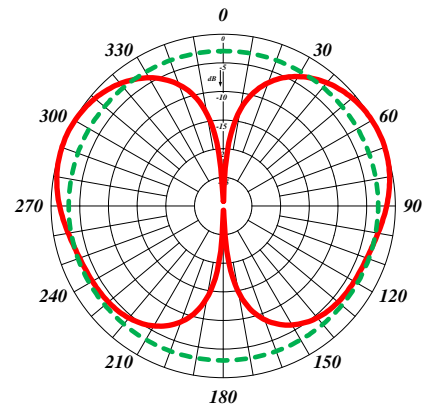
Vertical Pattern



301-70



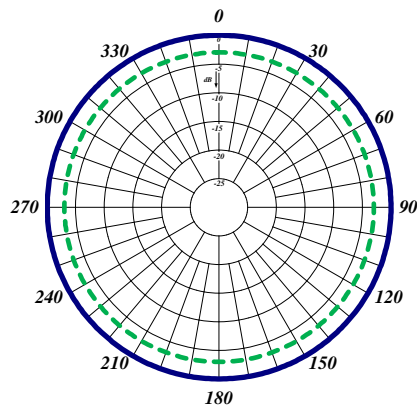
Horizontal Pattern



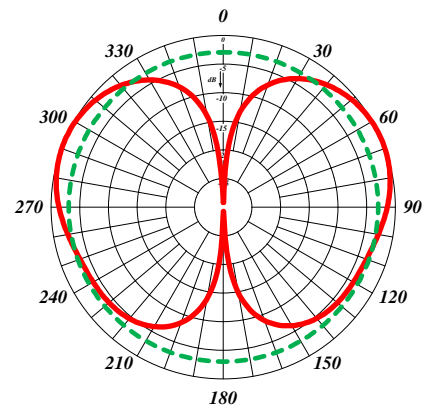
Vertical Pattern



401-70



Horizontal Pattern



Vertical Pattern