

# VHF/UHF Wideband Dipole Antennas



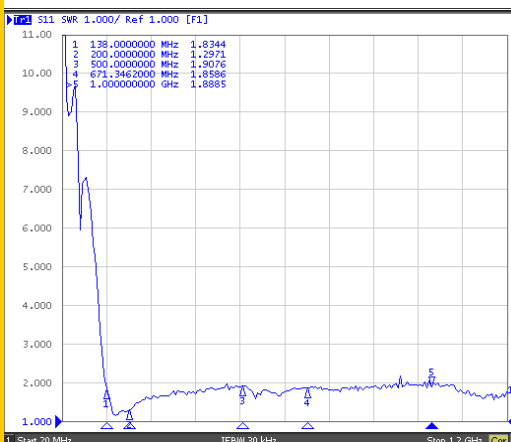
This new line of optimized wide bandwidth antennas provides a superior solution for communications, ESM, or measurement and testing systems requiring large instantaneous bandwidths with very flat impedance requirements in the VHF/UHF frequency range.

By using computer optimization techniques, engineers were able to design an antenna with low VSWR, high efficiency, and lightweight rugged construction. The antenna is available in several standard configurations or may be customized to a particular bandwidth requirement.

No lossy matching networks or lumped-element circuit components are used in the antenna. Available in lightweight aluminum or heavy duty brass and copper for shipboard applications.

## Specifications

- **VSWR: 3.0:1 max in band**
- **Standard Frequency Ranges**
  - 30—90 MHz
  - 130—550 MHz (usable to 1 GHz+)
  - 200—700 MHz
  - Others by request
- **Gain: 1.5 to 2.5 dBi**
- **Pattern: Dipole Equivalent**
- **Polarization: Linear**
- **Power: 500W standard with Type N connector, higher power available**
- **Dimensions:**
  - 30-90: 109" x 48"
  - 100-550: 23" x 15"
  - 200-600: 17.5" x 9.5"
- **Mounting: Horizontal or Vertical Pipe Mount**
- **Materials: Aluminum and PVC. Copper radiating elements are available for salt-water exposure applications.**



Measured VSWR of 130—550 MHz antenna and 50 feet LMR-400 cable for typical VHF/UHF communications applications.

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