



Product Description

The D8072 Extreme Weather Antenna has been engineered to maintain reliable connectivity under the most demanding weather conditions. Operating across the 108–174 MHz VHF frequency band, it delivers consistent omni-directional coverage via two vertically stacked dipole elements housed in a single, rugged enclosure and configured for the same frequency band.

Designed to endure high wind speeds and freezing climates, it features a ice-resistant coating that helps minimize ice buildup and preserve signal quality.

Product Features

- Vertical polarization for optimal signal propagation
- Icephobic surface treatment minimizes ice buildup
- High-wind resistance for extreme weather survivability
- Durable fiberglass-wound radome for environmental protection
- Aluminum base for lightweight strength and corrosion resistance



General Specifications

| | |
|-------------------|----------------------------------|
| Model Name | D8072 |
| Part Number | 99903801 |
| Antenna Type | Dipole Antenna |
| Radiation Pattern | Omni-Directional |
| Enclosure | Wound Fiberglass Radome |
| Color | Graphite Grey, Icephobic Coating |
| Compliances | RoHS, REACH |

Electrical Specifications

| | | |
|-----------------|------------|-----------|
| Frequency Range | MHz | 108 - 174 |
| Gain | dBic | 2 |
| Polarization | | Vertical |
| VSWR | Max | 2:1 |
| Impedance | Ω | 50 |
| Max Input Power | W | 350 |
| HPBW | $^{\circ}$ | 75 |

Mechanical Specifications

| | | |
|-----------------------|-----------|-----------------|
| Length | in (mm) | 153.2 (3891) |
| Weight | lbs. (kg) | 18.3 (8.3) |
| Element Configuration | | VHF-VHF |
| Connector Type | | N-Type (Female) |
| Number of Connectors | | 2 |

Environmental & Structural Specifications

| | | |
|----------------------------------|---|------------------------|
| Operating Temperature | $^{\circ}\text{F}$ ($^{\circ}\text{C}$) | -58 to 158 (-50 to 70) |
| Wind Loading Area | ft ² (m ²) | 2.46 (.22) |
| Wind Loading Area with ½" Ice | ft ² (m ²) | 3.53 (.32) |
| Bend Moment (ft-lbs) | | 408.1 |
| Bend Moment (ft-lbs) with ½" Ice | | 148.2 |
| Survival Rating No Ice | mph (kph) | 150 (241) |

Mounting Specifications

| | | |
|---------------|---------|--------------|
| Mount Type | | Mast Mounted |
| Mast OD | in (mm) | 2.88 (73) |
| Mast ID (min) | in (mm) | 2.38 (60) |