



### Product Description

The D8076 Extreme Weather Antenna has been engineered to maintain reliable connectivity under the most demanding weather conditions. It is designed for use across the 118–137 MHz frequency band, delivering dependable omni-directional coverage with vertically polarized radiation.

Its rugged construction is specifically built to withstand high wind speeds, incorporating an icephobic coating that significantly reduces ice accumulation, ensuring minimal signal degradation in freezing climates.

### 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	D8076
Part Number	99901801
NSN Number	5985-01-668-0620
Radiation Pattern	Omni-Directional
Enclosure	Wound Fiberglass Radome
Color	Graphite Grey, Icephobic Coating

### Electrical Specifications

Frequency	MHz	118 - 137
Element Configuration		VHF
Gain	dBi	2
VSWR	Max	2:1
HPBW H-Plane		360°
HPBW E-Plane		75°
Polarization		Vertical
Impedance	$\Omega$	50
Max Input Power	W	350
Connector Type:		N-Type (Female)
Number of Connectors:		1

### Environmental Specifications

Operating Temperature	°F (°C)	-58 to 158 (-50 to +70)
Wind Loading Area	ft <sup>2</sup> (m <sup>2</sup> )	1.08 (0.10)
Wind Loading Area with ½" Ice	ft <sup>2</sup> (m <sup>2</sup> )	1.55 (0.14)
Rated Wind Velocity	mph (kph)	200 (321)
Rated Wind Velocity with ½" Ice	mph (kph)	175 (281)

### Mechanical Specifications

Antenna Length	in (mm)	65 (1651)
Antenna Weight	lbs. (kg)	9 (4.1)
Mast OD	in (mm)	2.88 (73)
Mount Type		Mast Mounted