

### Model

#### RFF8-875-N-HD1A

Severe Environment Standard Parabolic  
875 - 960 MHz  
150 mph / 255 kmh survival

mWAVE's Gabriel Severe Environment Standard Parabolic antennas are designed for years of trouble free operation in some of the most severe climates. These models are engineered to deliver both superior RF electrical and mechanical performance and have done so worldwide for decades. If your sites environmental conditions are more severe than the norm, the mWAVE Gabriel Severe Environment antenna lines will elevate your sites operational and survival rates.



### Configuration

Type	Standard (Solid) Parabolic Antenna
Survival Rating	150 mph / 255 kmh <sup>(1)</sup>
Diameter	8-ft. (2.4)
Frequency Band	875 - 960 MHz
Polarization	Single
Feed Input	Type N
Construction	Single piece spun aluminum parabolic reflector
Struts	1 - Adjustable, 2 - Side and 1 - Bottom
Antenna Color	Production gray
Radome Material	Heavy duty fiberglass UV stabilized (M8C-1SE-HD)
Radome Color	Gray - no logo (other colors available.)
Radome Protection	n / a
Container	Standard wood crate (export crates available)
Origin	Engineered and Manufactured in Windham, ME USA

### Electrical

Frequency Band	875 - 960 MHz
Beamwidth, Horizontal	9.3°
Beamwidth, Vertical	9.3°
XPD (dB)	29
Electrical Compliance	U.S. FCC Part 101.115 & CDN IC-SRSP-507
Front to Back Ratio (F/B) (dB)	27
Gain, Low (dBi)	23.9
Gain, Mid (dBi)	24.3
Gain, High (dBi)	24.6
Return Loss (RL) (dB)	17.7
VSWR	1.30:1

- Notes:
- (1.) Survival and Operational wind ratings are based on a specific models mechanical configuration.
  - (2.) Models with higher survival ratings are available.
  - (3.) Referenced product specifications are subject to change without notice.  
Designed, Engineered, and Manufactured in Windham, ME USA  
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**Mechanical Features**

Fine Azimuth Adjustment	+/- 10°	
Elevation Adjustment	+/- 7.5°	
Vertical Mast Pipe O.D.	4.5-in	(115-mm)
Net Weight	380-lbs	(172-kg)
Strut Adjustable	Optional	
Strut Side	Optional	
Strut Bottom	Optional	
Operational Wind	112-mph	(180-kmh)
Survival Wind	150-mph	(241-kmh)
Operational Temperature	-40° F to +122° F	(-40° C to + 50° C)
Standard	ANSI / TIA - 222	

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Form: RFF8-875-N-HD1A\_220629\_rev.0-DS



**Model**

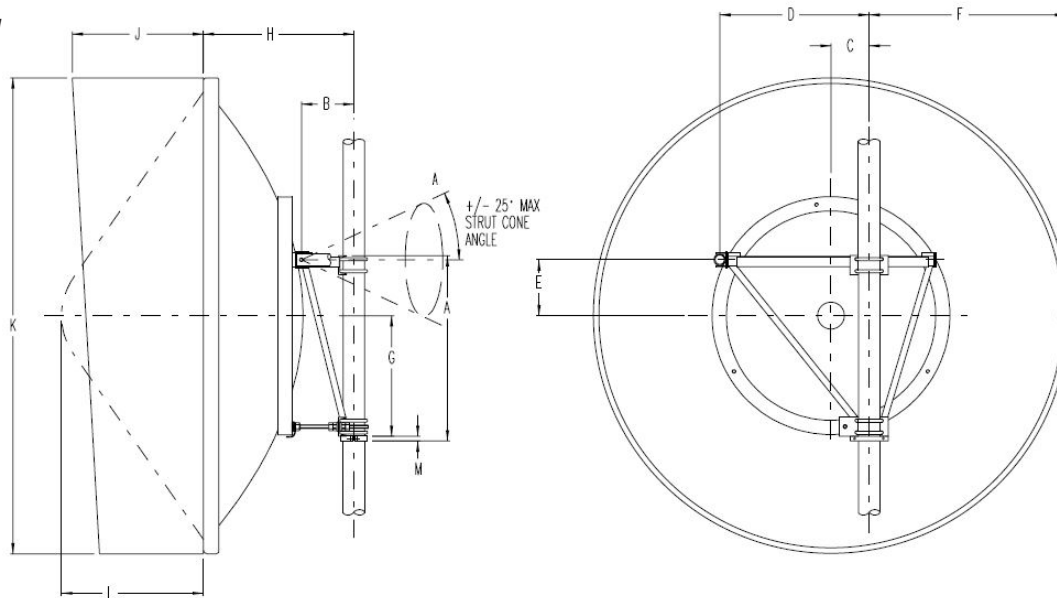
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**Mechanical**



**Mechanical Reference**

**8-ft**

**2.4m**

		(in)	(mm)
A	Mount Length	38.9	990
B	Pivot Point	11.0	280
C	Center Line Offset	8.0	205
D	Mount Strut Horz.	32.5	825
E	Mount Strut Pivot Vert.	11.8	300
F	Fixed Side Strut Horz.	42.0	1065
G	Centerline (above shearstop)	25.3	645
H	Reflector Length	31.8	810
J	HP Shroud Length (short)	29.7	755
	HP Shroud Length (long)	37.7	958
K	Antenna Diameter	100.0	2540
L	Radome Length (Standard)	33.0	840
M	Shearstop Collar	1	25
	Mast Diameter	4.5	115
	Fixed & Adjustable Struts Supplied	1 Adj. / 2 Side / 1 Bottom	
	Azimuth Adjustable Range (fine)	+/- 10°	
	Elevation Adjustment Ranges	+/- 7.5°	
	Weight	380-lbs	172-kg

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