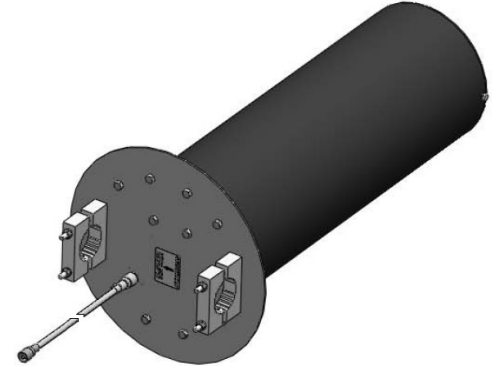


**SY307R-HF1SNM** Yagi directional, radome enclosed, 10 dBd, HD, 403-430 MHz

- Heavy duty, radome enclosed 10 dBd gain directional antenna
- Extremely rugged antenna withstands 195 mph winds.
- Ideally suited for harsh environments.

The SY307R is a heavy duty, radome enclosed 10 dBd gain directional antenna, ideally suited to harsh environment applications. This extremely rugged antenna will withstand 175 mph winds, with up to 0.5 inch of radial ice.



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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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### Electrical Specifications

Frequency Range	MHz	403 to 430
Bandwidth	MHz	27
Connector		N-Male
Gain (nominal)	dBd (dBi)	10 (12.1)
Input VSWR (max)		1.5:1
Polarization		vertical or horizontal
Impedance	Ω	50
Pattern		Directional
Horizontal beamwidth (typ)	degrees	48
Vertical beamwidth (typ)	degrees	42
Average Input Power (max)	W	250
Front-to-back ratio (Typ)	dB	15
Lightning protection		DC ground

### Notes

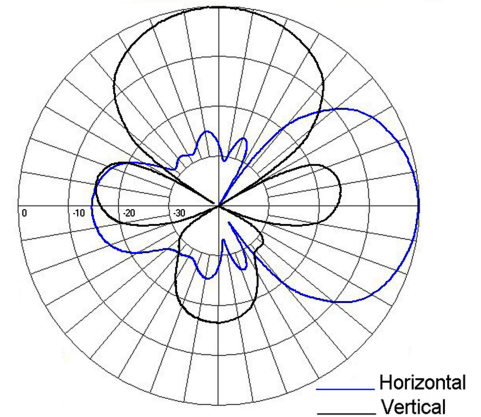
- \*1 : Reflector O.D.
- \*2 : Reflector O.D.

### Mechanical Specifications

Width	in (mm)	16 (406)	*1
Depth	in (mm)	16 (406)	*2
Length/ Height	in (mm)	31 (787)	
Radiating element material		aluminum	
Radome material		fiberglass	
Reflector material		aluminum	
Weight	lbs (kg)	18 (8.17)	
Weight iced (1/2" ice)	lbs (kg)	35 (15.89)	
Mounting Hardware (Included)		Clamp002B	
Estimated Shipping Weight	lbs (kg)	24 (10.9)	
Shipping dimensions	in (mm)	17x17x35 (432x432x889)	

### Environmental Specifications

Temperature range	°F (°C)	-40 to +158 (-40 to +70)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.34 (0.12)
Wind Loading Area (1/2" ice)	ft² (m²)	1.48 (0.14)
Rated wind velocity (no ice)	mph (km/h)	195 (314)
Rated wind velocity (1/2" radial ice)	mph (km/h)	175 (282)
Lateral Thrust (100 mph No Ice)	lbs (N)	53 (235.7)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	56 (75.6)



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