

SY306R-HFXSNF(FXXXX) Yagi directional, radome enclosed, 6 MHz B.W., 10 dBd, HD, 406-512 MHz

- Heavy duty, radome enclosed 10 dBd gain directional antenna with 6 MHz bandwidth
- Ideally suited to harsh environment applications
- 25 dB Front to Back Ratio

The SY306R series are heavy duty, radome enclosed 10 dBd gain directional antenna, ideally suited to harsh environment applications. It comes with a heavy duty fiberglass radome to protect the antenna. The entire antenna is at a DC ground potential.

The antenna and the reflector are designed for optimum front-back ratio. The reflector is also optimized for reduced wind loading.

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Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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### Electrical Specifications

Frequency Range	MHz	406 to 512	*1
Bandwidth	MHz	6	
Connector		N-Female	
Gain (nominal)	dBd (dBi)	10 (12.1)	
VSWR (max)		1.5:1	
Polarization		vertical or horizontal	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	48	
Vertical beamwidth (typ)	degrees	42	
Average Input Power (max)	W	250	
Front-to-back ratio (Typ)	dB	25	
Lightning protection		DC ground	

### Notes

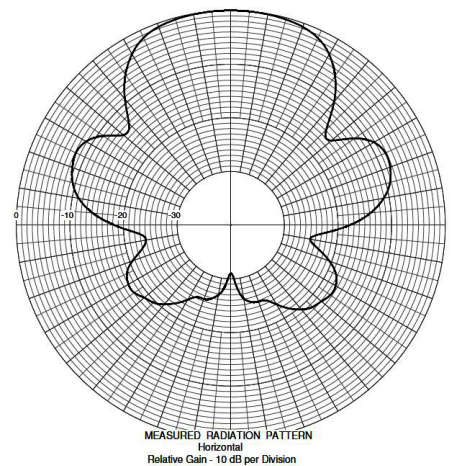
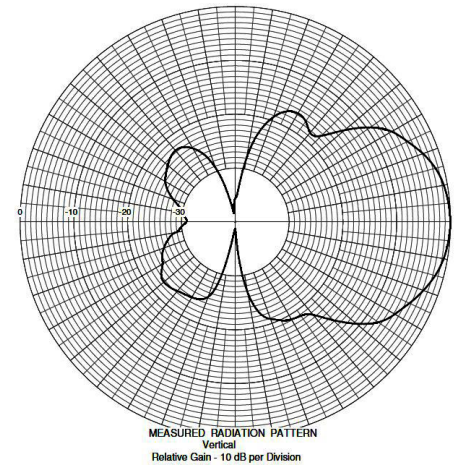
- \*1 : 6 MHz bandwidth
- \*2 : \*Reflector dimension
- \*3 : \*Reflector dimension
- \*4 : #4 clamps for 2.88" O.D. pipe. #2B clamps for 2.38" O.D. pipe

### Mechanical Specifications

Width	in (mm)	20 (508)	*2
Depth	in (mm)	14 (356)	*3
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)		#2 Clamps for 2.38" O.D. Pipe	*4
Estimated Shipping Weight	lbs (kg)	28 (12.71)	
Shipping dimensions	in (mm)	36x24x18 (914x610x457)	

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
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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