

SC281-HF3LDF

Collinear omni antenna, 5 dBd gain, low PIM, 148-168 MHz

- Wide band, covers 20MHz with true omni pattern
- 500W power handling with extremely low PIM: -150dBc (2x20W carriers)
- Survival wind speed 192 mph (309 km/h), rated wind speed 160 mph (255 km/h)

The SC281 is a collinear omni featuring Low Passive Intermod performance. Fabricated using durable components, this series of antennas is designed for ease of installation and superior resistance to harsh environmental conditions. The SC281 is enclosed in a fiberglass radome to minimize tip deflection and coverage variations in severe wind conditions. This family is fabricated to meet the most stringent wind and ice loading requirements.



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Region	United States, South & Central America	Europe, Middle East and Africa	Canada and rest of the world
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Electrical Specifications

Bandwidth	MHz	20
Frequency range	MHz	148 to 168
Gain	dBd (dBi)	5 (7.1)
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Pattern		omnidirectional
Input VSWR (max)		1.5:1
Polarization		vertical
Vertical beamwidth	degrees	18
Electrical tilt	degrees	0,2,4
Average power input (max)	W	500
Impedance	Ω	50
Lightning protection		DC ground

Notes

*1 : 6C clamp suggested

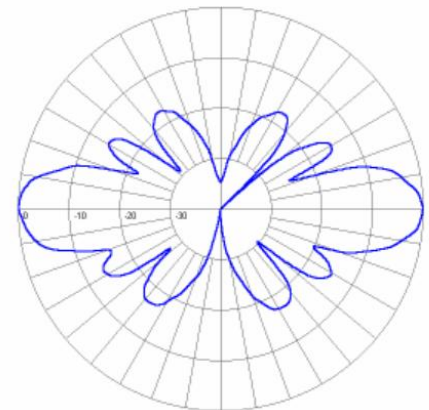
Ordering Information

Specify frequency band of operation.

Mechanical Specifications

Length	in (mm)	251 (6375)
Width	in (mm)	5 (127)
Connector		7/16 DIN (female)
Weight	lbs (kg)	79 (35.9)
Weight iced	lbs (kg)	142 (64.5)
Base pipe diameter	in (mm)	5 (127)
Mounting hardware		clamps not supplied
Shipping dimensions		264x6x6 in
Shipping weight	lbs (kg)	150 (68.1)

*1



Elevation

Environmental Specifications

Survival wind velocity (no ice)	mph (km/h)	192 (309)
Survival wind velocity (1/2" radial ice)	mph (km/h)	165 (266)
Tip deflection	degrees	2.2
Rated radial ice	in (mm)	0.5 (13)
Projected area (no ice)	ft ² (m ²)	5.3 (4.9)
Projected area (ice)	ft ² (m ²)	6.4 (5.9)
Lateral thrust (100mph)	lbs (N)	208 (925.2)
Bending moment	ft-lbs (Nm)	1610 (2173.5)
Temperature range	°F (°C)	-40 to +140 (-40 to +60)