

SC281-HF2LDF(D00) Collinear omni, 5 dBd, low PIM, HD, 138-158 MHz

- Wideband 5 dBd gain
- 500W power handling with low PIM rating
- A side mount kit is Mandatory when offset mounting the antenna
- Rugged fiberglass radome provides superior environmental protection

**A side mounting kit is Mandatory when offset mounting the antenna. The SMK-345-A7 for Offset Side Mount is available separately.**

The SC281-HL 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. This family is fabricated to meet the most stringent wind and ice loading requirements.



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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	138 to 158
Bandwidth	MHz	20
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	5 (7.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	18
Average Power Input (max)	W	500
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Electrical tilt (available)		0,2,4

#### Notes

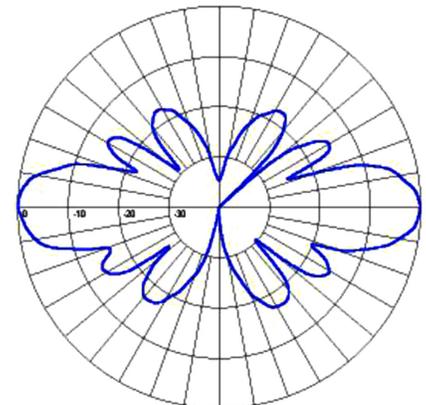
- \*1 : Qty 2
- \*2 : Side mount brackets available.

#### Mechanical Specifications

Length	in (mm)	248.5 (6312)
Width	in (mm)	5 (127)
Base pipe diameter	in (mm)	5 (127)
Base pipe mounting length	in (mm)	30 (762)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	79 (35.87)
Weight iced	lbs (kg)	142 (64.47)
Mounting Hardware (Optional)		Clamp006C <sup>*1</sup>
Actual Shipping weight	lbs (kg)	150 (68.1)
Shipping dimensions	in (mm)	264x6x6 (6706x152x152)
Recommended For Offset Side Mount:		SMK-345-A7

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	5.3 (0.49)
Wind Loading Area (1/2" ice)	ft² (m²)	6.4 (0.59)
Rated wind velocity (no ice)	mph (km/h)	170 (274) <sup>*2</sup>
Rated wind velocity (1/2" radial ice)	mph (km/h)	150 (242)
Lateral thrust (100 mph No Ice)	lbs (N)	208 (925.2)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	1610 (2173.5)
Tip deflection (100 mph No Ice)	degrees	2.2



**Elevation**

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