

SC389-HF1LDF(DXX) Collinear omni, 9 dBd, low PIM, PIP rated, HD, 380-430 MHz

- Corporate feed design provides excellent pattern control
- Heavy duty radome design, PIP rated
- Broadband omni coverage with 9 dBd gain
- 0 to 10 degrees electrical downtilt available

**Recommend SMK-345-A7 for Offset Side Mount. Available from Sinclair separately.**

The SC389-HL is a collinear omni antenna featuring low passive intermod performance with 9 dBd gain. Fabricated using durable components, this series of antennas is designed for ease of installation. The foam wrapped brass construction provides a light and durable structure housed in a UV protected fiberglass radome ensuring superior resistance to harsh environmental conditions. The SC389-HL is enclosed in a fiberglass radome to also minimize tip deflection and coverage variations in severe wind conditions. This family is fabricated to meet the most stringent wind and ice loading requirements. Due to its wide band and high power handling capability, this antenna is ideal for UHF trunking applications or multi-channel operation. With its low PIM rating, the probability of interference caused by intermodulation is low. The reliability and durability of this antenna makes it suitable for mission critical applications such as public safety.

When ordering, please refer to the chart below for the model number. Downtilt configurations are subject to various list price. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Downtilt	CTM
SC389-HF1LDF(D00)	0°	005853
SC389-HF1LDF(D01)	1°	006135
SC389-HF1LDF(D02)	2°	006135
SC389-HF1LDF(D03)	3°	006135
SC389-HF1LDF(D04)	4°	006135
SC389-HF1LDF(D05)	5°	006135
SC389-HF1LDF(D06)	6°	006135
SC389-HF1LDF(D07)	7°	006135
SC389-HF1LDF(D08)	8°	006135
SC389-HF1LDF(D09)	9°	006135
SC389-HF1LDF(D10)	10°	006135



www.sincltech.com

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	380 to 430
Bandwidth	MHz	50
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	9 (11.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni- directional
Vertical beamwidth (typ)	degrees	6.9
Average Power Input (max)	W	500
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
PIP(KW, max)		25
Electrical tilt (available)		0 to 10 degrees

### Notes

\*1 : Qty 2

### Mechanical Specifications

Width	in (mm)	5 (127)
Depth	in (mm)	5 (127)
Length/ Height	in (mm)	277 (7036)
Base pipe diameter	in (mm)	5 (127)
Base pipe mounting length	in (mm)	26 (660)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	79 (35.87)
Weight iced (1/2" ice)	lbs (kg)	142 (64.47)
Mounting Hardware (Optional)		Clamp006C *1
Actual shipping weight	lbs (kg)	110 (49.94)
Shipping dimensions	in (mm)	282x6.5x6.5 (7163x165x165)
Recommended For Offset Side Mount:		SMK-345-A7

### Ordering Information

Clamps must be ordered separately.  
Please refer to the model list on the previous page for specific model numbers and downtilt configurations.

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	5.24 (0.49)
Wind Loading Area (1/2" ice)	ft² (m²)	6.39 (0.59)
Rated wind velocity (no ice)	mph (km/h)	170 (274)
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

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