

SC369-HF5L(YY)(DXX-ZZZ) Aurora™ collinear omni, 9 dBd gain, HD, Low PIM, 350-400 MHz

- Patent-pending Aurora™ balanced design for exceptional performance
- Wideband and highly stable RF performance across the whole band
- The light-weight heavy-duty antenna in a relatively short length compared with traditional design
- -150 dBc Low PIM rating for high performance in multi-channel systems

Sinclair's SC369 series are broadband, heavy duty, omnidirectional antennas that cover the 350-512 MHz frequency range in different band splits. This antenna utilizes Sinclair's new patent-pending technology, which not only delivers outstanding bandwidth and unbeatable stable RF performance across the whole band but also resulting in enhanced wind rating due to the shortened total length comparing to traditional design. The industry-leading -150 dBc PIM rating provides low noise characteristics which makes it ideal for multi-channel systems.

Lightning protection: the antenna is fully DC grounded and it comes with a lightning spike projecting through the top of the radome to protect the antenna from lightning strikes. It's designed according to IEC62305 part 1-4 and VDE0855-300, and fulfills the requirements of lightning protection class II.

When ordering, please refer to the chart below for the model number. Different configurations are subject to various list price. Inverted and null fill versions are also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Connector	PIM	Downtilt	PIP (max)
SC369-HF5LDF(D00-PIP)	7/16 DIN(F)	-150 dBc	0°	25 kW
SC369-HF5LDF(D01-PIP)	7/16 DIN(F)	-150 dBc	1°	25 kW
SC369-HF5LDF(D02-PIP)	7/16 DIN(F)	-150 dBc	2°	25 kW
SC369-HF5LDF(D03-PIP)	7/16 DIN(F)	-150 dBc	3°	25 kW
SC369-HF5LDF(D04-PIP)	7/16 DIN(F)	-150 dBc	4°	25 kW
SC369-HF5LDF(D05-PIP)	7/16 DIN(F)	-150 dBc	5°	25 kW
SC369-HF5LDF(D06-PIP)	7/16 DIN(F)	-150 dBc	6°	25 kW
SC369-HF5LDF(D07-PIP)	7/16 DIN(F)	-150 dBc	7°	25 kW
SC369-HF5LDF(D08-PIP)	7/16 DIN(F)	-150 dBc	8°	25 kW
SC369-HF5LDF(D09-PIP)	7/16 DIN(F)	-150 dBc	9°	25 kW
SC369-HF5LDF(D10-PIP)	7/16 DIN(F)	-150 dBc	10°	25 kW
SC369-HF5LDF(D00)	7/16 DIN(F)	-150 dBc	0°	N/A
SC369-HF5LDF(D01)	7/16 DIN(F)	-150 dBc	1°	N/A
SC369-HF5LDF(D02)	7/16 DIN(F)	-150 dBc	2°	N/A
SC369-HF5LDF(D03)	7/16 DIN(F)	-150 dBc	3°	N/A
SC369-HF5LDF(D04)	7/16 DIN(F)	-150 dBc	4°	N/A
SC369-HF5LDF(D05)	7/16 DIN(F)	-150 dBc	5°	N/A
SC369-HF5LDF(D06)	7/16 DIN(F)	-150 dBc	6°	N/A
SC369-HF5LDF(D07)	7/16 DIN(F)	-150 dBc	7°	N/A
SC369-HF5LDF(D08)	7/16 DIN(F)	-150 dBc	8°	N/A
SC369-HF5LDF(D09)	7/16 DIN(F)	-150 dBc	9°	N/A
SC369-HF5LDF(D10)	7/16 DIN(F)	-150 dBc	10°	N/A
SC369-HF5LNF(D00)	N(F)	-139 dBc	0°	N/A



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#### Electrical Specifications

Frequency Range	MHz	350 to 400
Bandwidth	MHz	50
Connector		Various options avail. *1
Gain (nominal)	dBd (dBi)	9 (11.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Horizontal beamwidth (typ)	degrees	360
Vertical beamwidth (typ)	degrees	7
Average Input Power (max)	W	500
Lightning protection		DC ground
Electrical tilt (available)		0 to 10 degrees

#### Notes

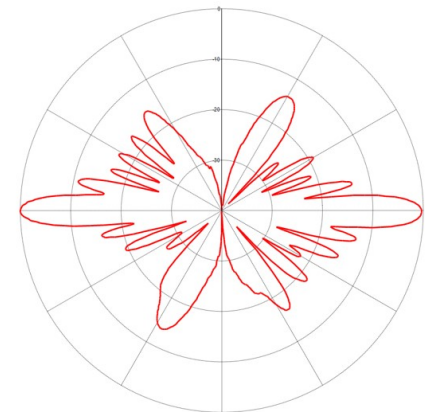
- \*1 : See previous page for details
- \*2 : D00 model can be installed upright or inverted; downtilt models upright only.
- \*3 : Qty: 2, suggested clamp spacing is 18"
- \*4 : Not included
- \*5 : Not included

#### Mechanical Specifications

Width	in (mm)	3.5 (89)
Depth	in (mm)	3.5 (89)
Length	in (mm)	251.25 (6382)
Base pipe diameter	in (mm)	3.5 (89)
Base pipe mounting length	in (mm)	24 (610)
Radome material		fiberglass (UV protected)
Mounting configurations		upright, inverted *2
Mounting Hardware (Optional)		Clamp006B *3
Kit for Offset Side Mount (straight tower leg)		SMK-335-A3 or SMK-335-A7 *4
Kit for Offset Side Mount (slanted tower leg)		SMKT-335-A3-T5 or SMKT-335-A7-T5 *5

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	3.5 (0.33)
Wind Loading Area (1/2" ice)	ft² (m²)	4.7 (0.44)
Rated wind velocity (no ice)	mph (km/h)	150 (242)
Rated wind velocity (1/2" radial ice)	mph (km/h)	125 (201)
Lateral Thrust (100 mph No Ice)	lbs (N)	140 (622.7)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	1127 (1521.5)
Tip deflection (100 mph No Ice)	degrees	4.7



Vertical, 0° DT

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Product Specification Sheet		SC369-HF5L(YY)(DXX-ZZZ)	Issue: 1	Dated: 28-03-22
EPR				Dated: 14-07-21
Customer Tech Manual				