

SC369-HF1L(YY)(DXX-ZZZ) Aurora™ collinear omni, 9 dBd gain, HD, Low PIM, 380-430 MHz

- Patent-pending Aurora™ design for exceptional performance
- Outstanding bandwidth with highly stable RF performance across the whole band
- -150dBc PIM rating for low noise characteristics, ideal for wideband or trunking systems
- Heavy-duty antenna in a relative compact form factor

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-HF1LDF(D00-PIP)	7/16 DIN(F)	-150 dBc	0°	25 kW
SC369-HF1LDF(D01-PIP)	7/16 DIN(F)	-150 dBc	1°	25 kW
SC369-HF1LDF(D02-PIP)	7/16 DIN(F)	-150 dBc	2°	25 kW
SC369-HF1LDF(D03-PIP)	7/16 DIN(F)	-150 dBc	3°	25 kW
SC369-HF1LDF(D04-PIP)	7/16 DIN(F)	-150 dBc	4°	25 kW
SC369-HF1LDF(D05-PIP)	7/16 DIN(F)	-150 dBc	5°	25 kW
SC369-HF1LDF(D06-PIP)	7/16 DIN(F)	-150 dBc	6°	25 kW
SC369-HF1LDF(D07-PIP)	7/16 DIN(F)	-150 dBc	7°	25 kW
SC369-HF1LDF(D08-PIP)	7/16 DIN(F)	-150 dBc	8°	25 kW
SC369-HF1LDF(D09-PIP)	7/16 DIN(F)	-150 dBc	9°	25 kW
SC369-HF1LDF(D10-PIP)	7/16 DIN(F)	-150 dBc	10°	25 kW
SC369-HF1LDF(D00)	7/16 DIN(F)	-150 dBc	0°	N/A
SC369-HF1LDF(D01)	7/16 DIN(F)	-150 dBc	1°	N/A
SC369-HF1LDF(D02)	7/16 DIN(F)	-150 dBc	2°	N/A
SC369-HF1LDF(D03)	7/16 DIN(F)	-150 dBc	3°	N/A
SC369-HF1LDF(D04)	7/16 DIN(F)	-150 dBc	4°	N/A
SC369-HF1LDF(D05)	7/16 DIN(F)	-150 dBc	5°	N/A
SC369-HF1LDF(D06)	7/16 DIN(F)	-150 dBc	6°	N/A
SC369-HF1LDF(D07)	7/16 DIN(F)	-150 dBc	7°	N/A
SC369-HF1LDF(D08)	7/16 DIN(F)	-150 dBc	8°	N/A
SC369-HF1LDF(D09)	7/16 DIN(F)	-150 dBc	9°	N/A
SC369-HF1LDF(D10)	7/16 DIN(F)	-150 dBc	10°	N/A
SC369-HF1LNF(D00)	N(F)	-139 dBc	0°	N/A



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

Frequency Range	MHz	380 to 430	
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	*2

Notes

- *1 : See previous page for details
- *2 : With integrated lightning spike
- *3 : ±5%
- *4 : D00 model can be installed UPRIGHT or INVERTED; downtilt models UPRIGHT only.
- *5 : Qty: 2
- *6 : Not included
- *7 : Not included

Mechanical Specifications

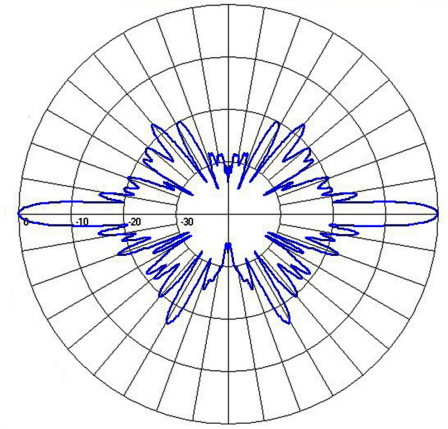
Width	in (mm)	3.5 (89)	
Depth	in (mm)	3.5 (89)	
Length	in (mm)	240 (6096)	*3
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	44 (19.98)	
Mounting configurations		upright, inverted	*4
Mounting Hardware (Optional)		Clamp006B	*5
Kit for Offset Side Mount (straight tower leg)		SMK-335-A3 or SMK-335-A7	*6
Kit for Offset Side Mount (slanted tower leg)		SMKT-335-A3-T5 or SMKT-335-A7-T5	*7

Ordering Information

Clamps must be ordered separately.

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft ² (m ²)	3.5 (0.33)
Wind Loading Area (1/2" ice)	ft ² (m ²)	4.6 (0.43)
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)	135 (600.5)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	1047 (1413.5)



Vertical, 0° DT

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Product Specification Sheet		SC369-HF1L(YY)(DXX-ZZZ)	Issue: 0	Dated: 28-03-22
EPR				Dated: 18-01-22
Customer Tech Manual				