

SC346-HF3LDF(DXX) Aurora™ collinear omni antenna, 6 dBd, HD, low PIM, 450-470 MHz

- Patent-pending Aurora™ design for outstanding performance
- 20 MHz fully operational bandwidth with highly consistent RF performance
- -150dBc PIM rating for low noise characteristics, ideal for wideband or trunking systems
- Heavy duty construction and UV protected radome for harsh environment

The Aurora™ SC family is Sinclair's next-generation of public safety collinear antennas. The patent-pending design utilizes cutting-edge yet field-proven technology to deliver an unparalleled combination of highly stable RF pattern, higher gain, and wider bandwidth.

Specifically, the SC346-HL series collinear omni-directional antenna offers 6 dBd gain in 20 MHz band splits covering the 351-512 MHz UHF frequency range. This antenna is designed for a high degree of operational reliability in extreme wind, ice, and corrosive conditions. Its relatively low mass and small wind-loading profile makes it easy to install. The antenna is fully DC grounded for protection against lightning and static conditions.

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
SC346-HF3LDF(D00)	0°
SC346-HF3LDF(D03)	3°
SC346-HF3LDF(D06)	6°



www.sinctech.com

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specification Sheet
EPR 019057
Customer Tech Manual 006820

SC346-HF3LDF(DXX)

Issue: 2

Dated: 07-12-20
Dated: 29-04-20

Electrical Specifications

Frequency Range	MHz	450 to 470	
Bandwidth	MHz	20	
Connector		7/16 DIN-Female	*1
Gain (nominal)	dBd (dBi)	6 (8.1)	
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni- directional	
Vertical beamwidth (typ)	degrees	12	
Average Input Power (max)	W	500	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
Lightning protection		DC ground	
Electrical tilt (available)		0,3 or 6 degrees	

Notes

- *1 : Flange mount
- *2 : Qty 2

Mechanical Specifications

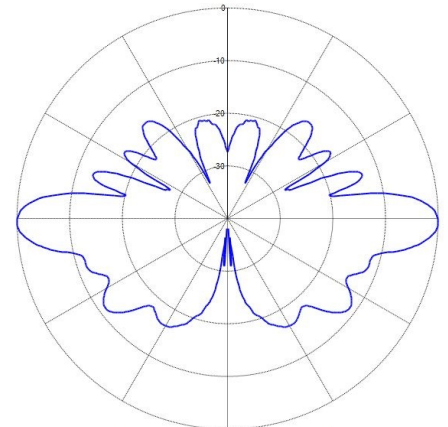
Width	in (mm)	2 (51)	
Depth	in (mm)	2 (51)	
Length	in (mm)	127 (3226)	
Base pipe diameter	in (mm)	2 (51)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	9 (4.09)	
Weight iced (1/2" ice)	lbs (kg)	26 (11.8)	
Mounting Hardware (Optional)		Clamp130, or Clamp090M	*2
Mounting configurations		upright	
Actual shipping weight	lbs (kg)	25 (11.35)	
Shipping dimensions	in (mm)	133x4.5x4.5 (3378x114x114)	
Radome Colour		Blue	

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.1 (0.1)
Wind Loading Area (1/2" ice)	ft² (m²)	1.5 (0.14)
Rated wind velocity (no ice)	mph (km/h)	180 (290)
Rated wind velocity (1/2" radial ice)	mph (km/h)	140 (225)
Lateral Thrust (100 mph No Ice)	lbs (N)	38 (169)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	146 (197.1)
Tip deflection (100 mph No Ice)	degrees	2.4

Ordering Information

Clamps must be purchased separately.
When ordering, please refer to the chart on the previous page for specific model numbers and downtilt configurations.



Vertical, 0° downtilt

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