



SC49C-HWBLDF(DXX-NUF)

Aurora[™] collinear omni, 11.5 dBd, HD, low PIM, null fill, 746-960 MHz

- Patent-pending Aurora[™] balanced design delivers exceptional 214 MHz bandwidth
- Industry-leading -150dBc PIM rating for low noise characteristics, ideal for trunking sys.
- · Heavy-duty construction with outstanding 220 mph wind rating for harsh environments
- · 500W power handling; optimized null fill for close-in coverage enhancement

The Aurora™ SC family is Sinclair's next generation of collinear antennas. The patent-pending antenna utilizes cutting-edge, field-proven balanced design to deliver an unparalleled combination of higher gain, wider bandwidth, highly consistent RF pattern, higher wind rating and lighter weight, all in a small form factor. Designed according to IEC62305 Part 1-4, VDE0855-300, and fulfilling the requirements of lightning protection class II, these antennas are fully DC-grounded and protected with a lightning spike through the top of the radome. Unbeatable, heavy-duty construction along with the enhanced wind rating, means these antennas can last for years in the most challenging environments. The new Aurora SC series is ideal for public safety applications as it offers reliability, durability, and easy installation in a lightweight and compact package.

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

Model Number	Downtilt
SC49C-HWBLDF(D00-NuF)	0°
SC49C-HWBLDF(D01-NuF)	1°
SC49C-HWBLDF(D02-NuF)	2°
SC49C-HWBLDF(D03-NuF)	3°
SC49C-HWBLDF(D04-NuF)	4°
SC49C-HWBLDF(D05-NuF)	5°
SC49C-HWBLDF(D06-NuF)	6°
SC49C-HWBLDF(D07-NuF)	7°
SC49C-HWBLDF(D08-NuF)	8°
SC49C-HWBLDF(D09-NuF)	9°
SC49C-HWBLDF(D10-NuF)	10°

Application Notes

 Recommend SMK-345-A7 kit for offset side mounting. Available from Sinclair separately. Complies with EIA/TIA-329 standard.

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
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Product Specification Sheet EPR 018944		SC49C-HWBLDF(DXX-NUF)	Issue: 0	Dated: 15-07-19 Dated: 16-03-18

FPR 018944 Customer Tech Manual 006135





Antennas 700-1000 MHz Antennas SC49C-HL PIM Certified Series

A Norsat Company in Norsat

Electrical Specifications		
Frequency Range	MHz	746 to 960
Bandwidth	MHz	214
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	11.5 (13.6)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni- directional
Vertical beamwidth (typ)	degrees	3.6
Average Input Power (max)	W	500
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Null fill	%	25
Lightning protection		DC ground
Electrical tilt (available)		0 to 10 degrees

Machanical	Specifications	

Width	in (mm)	5 (127)	
Depth	in (mm)	5 (127)	
Length/ Height	in (mm)	202.5 (5144)	
Base pipe diameter	in (mm)	5 (127)	
Base pipe mounting length	in (mm)	26 (660)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	68 (30.87)	
Weight iced (1/2" ice)	lbs (kg)	121 (54.93)	
Mounting Hardware (Optional)		Clamp006C	**
Recommended For Offset Side Mount:		SMK-345-A7	
Mounting configurations		upright	
Estimated Shipping Weight	lbs (kg)	110 (49.94)	
Shipping dimensions	in (mm)	264x6.5x6.5 (6706x165x165)	

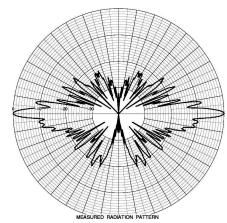
Environmental Specifications

	Environmental opcomoduono		
	Temperature range	°F (°C)	-40 to +140 (-40 to +60)
5	Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	4.4 (0.41)
)	Wind Loading Area (1/2" ice)	ft² (m²)	5.3 (0.49)
	Rated wind velocity (no ice)	mph (km/h)	220 (354)
	Rated wind velocity (1/2" radial ice)	mph (km/h)	190 (306)
)	Lateral Thrust (100 mph No Ice)	lbs (N)	171 (760.6)
	Bending moment (100 mph No Ice)	ft-lbs (Nm)	1062 (1433.7)
-	Tip deflection (100 mph No Ice)	degrees	0.9

Notes *1 : Qty:2

Ordering Information

When ordering, please refer to the model list on the previous page for specific model numbers and downtilt configurations.



Vertical, 0° downtilt shown

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Product Specificatio	n Sheet	SC49C-HWBLDF(DXX-NUF)	Issue: 0	Dated: 15-07-19