

SC466-HF1LDF(DXX-NUFP) Aurora™ collinear omni, 6 dBd, Low PIM, PIP & Null-filled, HD, 746-869 MHz

- Patent-pending Aurora™ balanced design covers the 746-869 MHz frequency range
- Industry-Leading -150dBc PIM rating for low noise characteristics, ideal for trunking sys.
- Heavy-duty construction with outstanding 240 mph wind rating for harsh environments
- Null-filled pattern for enhanced close-up coverage

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 prices. Null fill versions are also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Downtilt
SC466-HF1LDF(D00-NuFP)	0°
SC466-HF1LDF(D01-NuFP)	1°
SC466-HF1LDF(D02-NuFP)	2°
SC466-HF1LDF(D03-NuFP)	3°
SC466-HF1LDF(D04-NuFP)	4°
SC466-HF1LDF(D05-NuFP)	5°
SC466-HF1LDF(D06-NuFP)	6°
SC466-HF1LDF(D07-NuFP)	7°
SC466-HF1LDF(D08-NuFP)	8°
SC466-HF1LDF(D09-NuFP)	9°
SC466-HF1LDF(D10-NuFP)	10°

Note:
Recommend SMK-225-A3 or SMK-225-A7 for offset side mount. Available from Sinclair separately. Complies with EIA/TIA-329-B standard.



www.sinctech.com

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SC466-HF1LDF(DXX-NUFP)	Issue: 0	Dated: 20-06-22

Electrical Specifications

Frequency Range	MHz	746 to 869	
Bandwidth	MHz	123	
Connector		7/16 DIN-Female	
Gain (nominal)	dBd (dBi)	6.5 (8.6)	*1
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni-directional	
Vertical beamwidth (typ)	degrees	13	
Average Input Power (max)	W	500	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
PIP(KW, max)		25	
Null fill	%	25	
Lightning protection		DC ground	

Notes

- *1 : ±0.5 dB.
- *2 : Weight variance ±3 lb.
- *3 : Qty:2
- *4 : Complies w/ EIA/TIA-329 standard. Optional (not included).

Ordering Information

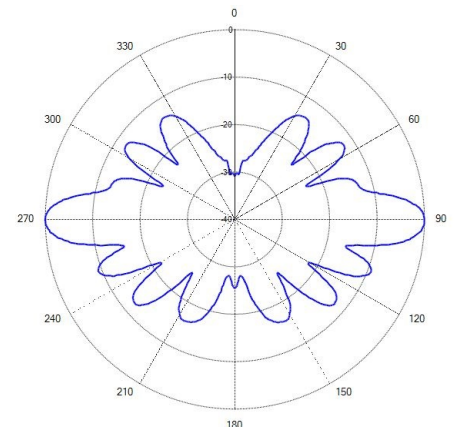
Clamps must be purchased separately.

Mechanical Specifications

Width	in (mm)	3.5 (89)	
Depth	in (mm)	3.5 (89)	
Length/ Height	in (mm)	89.6 (2276)	
Base pipe diameter	in (mm)	3.5 (89)	
Base pipe mounting length	in (mm)	16 (406)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	21 (9.53)	*2
Weight iced (1/2" ice)	lbs (kg)	37 (16.8)	
Mounting configurations		upright	
Mounting Hardware (Optional)		Clamp006B, Clamp147, or Clamp147M	*3
Kit for Offset Side Mount (straight tower leg)		SMK-225-A3 or SMK-225-A7	*4
Estimated Shipping Weight	lbs (kg)	30 (13.62)	
Shipping dimensions	in (mm)	102x6x6 (2591x152x152)	

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.2 (0.11)
Wind Loading Area (1/2" ice)	ft² (m²)	1.6 (0.15)
Rated wind velocity (no ice)	mph (km/h)	240 (386)
Rated wind velocity (1/2" radial ice)	mph (km/h)	200 (322)
Lateral Thrust (100 mph No Ice)	lbs (N)	46 (204.6)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	107 (144.5)
Tip deflection (100 mph No Ice)	degrees	0.1



Vertical, 0° downtilt shown

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SC466-HF1LDF(DXX-NUFP)	Issue: 0	Dated: 20-06-22