

SC469-HF1LDF(DXX-NUF) Aurora™ collinear omni, 9 dBd, HD, low PIM, null fill, 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 200 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 |
|-----------------------|----------|
| SC469-HF1LDF(D00-NUF) | 0° |
| SC469-HF1LDF(D01-NUF) | 1° |
| SC469-HF1LDF(D02-NUF) | 2° |
| SC469-HF1LDF(D03-NUF) | 3° |
| SC469-HF1LDF(D04-NUF) | 4° |
| SC469-HF1LDF(D05-NUF) | 5° |
| SC469-HF1LDF(D06-NUF) | 6° |
| SC469-HF1LDF(D07-NUF) | 7° |
| SC469-HF1LDF(D08-NUF) | 8° |
| SC469-HF1LDF(D09-NUF) | 9° |
| SC469-HF1LDF(D10-NUF) | 10° |



www.sinctech.com

| Region | United States | Europe, Middle East and Africa | Caribbean and Latin America | Canada and rest of the world |
|------------------|-----------------------|--------------------------------------|--------------------------------|--|
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| E-mail | salesusa@sinctech.com | salesuk@sinctech.com | salesla@sinctech.com | salescan@sinctech.com |

Electrical Specifications

| | | |
|-------------------------------------|-----------|------------------|
| Frequency Range | MHz | 746 to 869 |
| Bandwidth | MHz | 123 |
| Connector | | 7/16 DIN-Female |
| Gain (nominal) | dBd (dBi) | 9 (11.1) |
| Input VSWR (max) | | 1.5:1 |
| Polarization | | vertical |
| Impedance | Ω | 50 |
| Pattern | | Omni-directional |
| Vertical beamwidth (typ) | degrees | 7 |
| 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 |

Mechanical Specifications

| | | |
|------------------------------------|----------|--|
| Width | in (mm) | 3.5 (89) |
| Depth | in (mm) | 3.5 (89) |
| Length/ Height | in (mm) | 135 (3429) |
| Base pipe diameter | in (mm) | 3.5 (89) |
| Base pipe mounting length | in (mm) | 16 (406) |
| Radome material | | fiberglass (UV protected) |
| Weight | lbs (kg) | 25 (11.35) |
| Weight iced (1/2" ice) | lbs (kg) | 50 (22.7) |
| Mounting Hardware (Optional) | | Clamp147 ^{*1} |
| Recommended For Offset Side Mount: | | SMK-335-A3 or SMK-335-A7 ^{*2} |
| Mounting configurations | | upright |
| Estimated Shipping Weight | lbs (kg) | 66 (29.96) |
| Shipping dimensions | in (mm) | 170x5x5 (4318x127x127) |

Environmental Specifications

| | | |
|---|-------------|--------------------------|
| Temperature range | °F (°C) | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent) | ft² (m²) | 1.9 (0.18) |
| Wind Loading Area (1/2" ice) | ft² (m²) | 2.6 (0.24) |
| Rated wind velocity (no ice) | mph (km/h) | 200 (322) |
| Rated wind velocity (1/2" radial ice) | mph (km/h) | 165 (266) |
| Lateral Thrust (100 mph No Ice) | lbs (N) | 76 (338) |
| Bending moment (100 mph No Ice) | ft-lbs (Nm) | 308 (415.8) |
| Tip deflection (100 mph No Ice) | degrees | 0.8 |

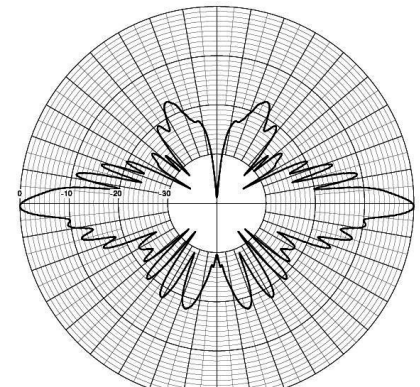
Notes

*1 : Qty:2

*2 : Not included, complies w/ EIA/TIA-329 standard, available separately.

Ordering Information

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



Vertical, 0° DT

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