

SC266-HF4L(YY)(DXX-ZZZ) Aurora™ collinear omni, 6 dBd, HD, low PIM, PIP, 156-174 MHz

- Patent-pending Aurora™ balanced design for exceptional performance
- Outstanding bandwidth and highly stable radiating pattern across the whole band
- -150dBc PIM rating for low noise characteristics, ideal for trunking systems
- 6 dBd high gain with 150 mph wind rating for harsh environment

Sinclair's SC266 series are broadband, heavy duty, omni-directional antennas that cover the 118-174 MHz frequency range in different band splits. This antenna utilizes Sinclair's new patent-pending technology, which not only delivers outstanding bandwidth, but also resulting in enhanced wind rating due to the shortened total length comparing to traditional designs. The industry-leading -150 dBc PIM rating provides low noise characteristics which makes it ideal for multi-channel systems or congested sites.

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 appropriate model numbers. Downtilt configurations are subject to different pricing. Null fill or inverted versions are also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Connector	PIM	Downtilt	PIP (max)
SC266-HF4LDF(D00-PIP)	7/16 DIN(F)	-150 dBc	0°	25 kW
SC266-HF4LDF(D02-PIP)	7/16 DIN(F)	-150 dBc	2°	25 kW
SC266-HF4LDF(D04-PIP)	7/16 DIN(F)	-150 dBc	4°	25 kW
SC266-HF4LDF(D06-PIP)	7/16 DIN(F)	-150 dBc	6°	25 kW
SC266-HF4LDF(D00)	7/16 DIN(F)	-150 dBc	0°	N/A
SC266-HF4LDF(D02)	7/16 DIN(F)	-150 dBc	2°	N/A
SC266-HF4LDF(D04)	7/16 DIN(F)	-150 dBc	4°	N/A
SC266-HF4LDF(D06)	7/16 DIN(F)	-150 dBc	6°	N/A
SC266-HF4LNF(D00)	N(F)	-138 dBc	0°	N/A



Antenna may not appear exactly as shown.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SC266-HF4L(YY)(DXX-ZZZ)	Issue: 2	Dated: 18-09-23

Electrical Specifications

Frequency Range	MHz	156 to 174	
Bandwidth	MHz	18	
Connector		Various options avail.	*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	18	
Average Input Power (max)	W	500	
Grounding		All metal parts DC-grounded	

Notes

- *1 : See previous page for details
 *2 : Qty 2
 *3 : D00 model can be installed UPRIGHT or INVERTED; downtilt models UPRIGHT only.
 *4 : Not included, complies w/ EIA/TIA-329

Mechanical Specifications

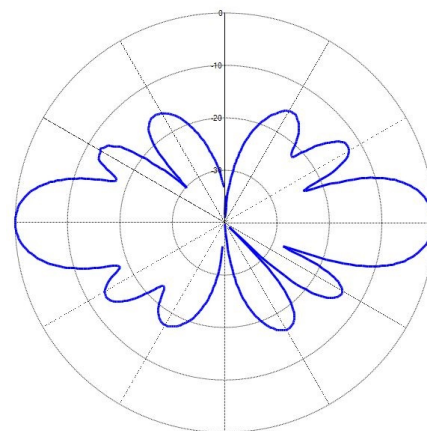
Width	in (mm)	3.5 (89)	
Depth	in (mm)	3.5 (89)	
Length/ Height	in (mm)	223.5 (5677)	
Base pipe diameter	in (mm)	3.5 (89)	
Base pipe mounting length	in (mm)	24 (610)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	41 (18.61)	
Weight iced (1/2" ice)	lbs (kg)	83 (37.68)	
Mounting Hardware (Optional)		Clamp006B	*2
Mounting configurations		upright, inverted	*3
Kit for Offset Side Mount (straight tower leg)		SMK-335-A7	*4
Estimated Shipping Weight	lbs (kg)	86 (39.04)	
Shipping dimensions	in (mm)	234x7x7 (5944x178x178)	

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)	
Wind Loading Area (Flat Plate Equivalent)	ft ² (m ²)	3.3 (0.31)	
Wind Loading Area (1/2" ice)	ft ² (m ²)	4.4 (0.41)	
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)	130 (578.2)	
Bending moment (100 mph No Ice)	ft-lbs (Nm)	950 (1282.5)	
Tip deflection (100 mph No Ice)	degrees	4	

Ordering Information

Clamps and/or side mount kit must be purchased separately.



Vertical, 0° downtilt shown

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