

SC366-HF3L(YY)(DXX-M-ZZZ) Aurora™ collinear omni, 6 dBd, HD, low PIM, PIP, 406-470 MHz

- Patent-pending Aurora™ design for exceptional performance
- Outstanding bandwidth with highly stable RF performance across the whole band
- -150dBc PIM rating for low noise characteristics, ideal for wideband or trunking systems
- Light-weight heavy-duty antenna with outstanding 190 mph wind rating for long life

Sinclair's SC366 series of antennas are broadband, heavy duty, omni-directional antennas that cover the 320-512 MHz frequency range in different band splits. This antenna utilizes Sinclair's patent-pending technology, which not only delivers outstanding bandwidth, but also resulting in enhanced wind rating comparing to traditional design. The industry-leading -150 dBc PIM rating provides low noise characteristics which makes it ideal for wideband and multi-channel systems.

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 model number. Downtilt configurations are subject to various list price. Null-filled models are available for optimized close-up coverage at 5.5 dBd gain. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Connector	PIM	Downtilt	PIP (max)
SC366-HF3LDF(D00-M-PIP)	7/16 DIN(F)	-150 dBc	0°	25 kW
SC366-HF3LDF(D01-M-PIP)	7/16 DIN(F)	-150 dBc	1°	25 kW
SC366-HF3LDF(D02-M-PIP)	7/16 DIN(F)	-150 dBc	2°	25 kW
SC366-HF3LDF(D03-M-PIP)	7/16 DIN(F)	-150 dBc	3°	25 kW
SC366-HF3LDF(D04-M-PIP)	7/16 DIN(F)	-150 dBc	4°	25 kW
SC366-HF3LDF(D05-M-PIP)	7/16 DIN(F)	-150 dBc	5°	25 kW
SC366-HF3LDF(D06-M-PIP)	7/16 DIN(F)	-150 dBc	6°	25 kW
SC366-HF3LDF(D07-M-PIP)	7/16 DIN(F)	-150 dBc	7°	25 kW
SC366-HF3LDF(D08-M-PIP)	7/16 DIN(F)	-150 dBc	8°	25 kW
SC366-HF3LDF(D09-M-PIP)	7/16 DIN(F)	-150 dBc	9°	25 kW
SC366-HF3LDF(D10-M-PIP)	7/16 DIN(F)	-150 dBc	10°	25 kW
SC366-HF3LDF(D00-M)	7/16 DIN(F)	-150 dBc	0°	N/A
SC366-HF3LDF(D01-M)	7/16 DIN(F)	-150 dBc	1°	N/A
SC366-HF3LDF(D02-M)	7/16 DIN(F)	-150 dBc	2°	N/A
SC366-HF3LDF(D03-M)	7/16 DIN(F)	-150 dBc	3°	N/A
SC366-HF3LDF(D04-M)	7/16 DIN(F)	-150 dBc	4°	N/A
SC366-HF3LDF(D05-M)	7/16 DIN(F)	-150 dBc	5°	N/A
SC366-HF3LDF(D06-M)	7/16 DIN(F)	-150 dBc	6°	N/A
SC366-HF3LDF(D07-M)	7/16 DIN(F)	-150 dBc	7°	N/A
SC366-HF3LDF(D08-M)	7/16 DIN(F)	-150 dBc	8°	N/A
SC366-HF3LDF(D09-M)	7/16 DIN(F)	-150 dBc	9°	N/A
SC366-HF3LDF(D10-M)	7/16 DIN(F)	-150 dBc	10°	N/A
SC366-HF3LNF(D00-M)	N(F)	-139 dBc	0°	N/A



Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Electrical Specifications

Frequency Range	MHz	406 to 470	
Bandwidth	MHz	64	
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	
Horizontal beamwidth (typ)	degrees	360	
Vertical beamwidth (typ)	degrees	15	
Average Input Power (max)	W	500	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
Lightning protection		DC ground	*2
Electrical tilt (available)		0 to 10 degrees	

Notes

- *1 : See previous page for details
- *2 : With integrated lighting spike
- *3 : D00 model can be installed upright or inverted; downtilt models upright only.
- *4 : Qty: 2
- *5 : Straight tower legs. For slanted tower legs, recommend SMKT-335-A3-T5 or SMKT-335-A7-T5.

Ordering Information

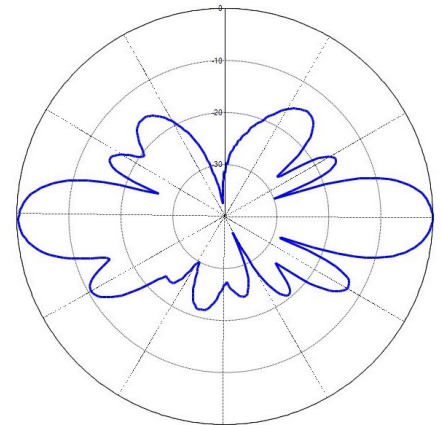
Clamps must be purchased separately.

Mechanical Specifications

Width	in (mm)	3.5 (89)	
Depth	in (mm)	3.5 (89)	
Length/ Height	in (mm)	132 (3353)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	25.5 (11.58)	
Mounting configurations		upright, inverted	*3
Mounting Hardware (Optional)		Clamp147, or Clamp147M	*4
Kit For Offset Side Mount (straight tower leg)		SMK-335-A3 or SMK-335-A7	*5
Estimated Shipping Weight	lbs (kg)	62 (28.15)	
Shipping dimensions	in (mm)	142x6x6 (3607x152x152)	

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.5 (0.14)
Wind Loading Area (1/2" ice)	ft² (m²)	1.9 (0.18)
Rated wind velocity (no ice)	mph (km/h)	190 (306)
Rated wind velocity (1/2" radial ice)	mph (km/h)	160 (258)
Lateral Thrust (100 mph No Ice)	lbs (N)	57 (253.5)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	167 (225.5)



Vertical, 0° downtilt shown

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