

SC366-HF6L(YY)(DXX-M-ZZZ) Aurora™ collinear omni, 6 dBd, HD, low PIM, PIP, 320-355 MHz

- Patent-pending Aurora™ balanced 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. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Connector	PIM	Downtilt	PIP (max)
SC366-HF6LDF(D00-M-PIP)	7/16 DIN(F)	-150 dBc	0°	25 kW
SC366-HF6LDF(D01-M-PIP)	7/16 DIN(F)	-150 dBc	1°	25 kW
SC366-HF6LDF(D02-M-PIP)	7/16 DIN(F)	-150 dBc	2°	25 kW
SC366-HF6LDF(D03-M-PIP)	7/16 DIN(F)	-150 dBc	3°	25 kW
SC366-HF6LDF(D04-M-PIP)	7/16 DIN(F)	-150 dBc	4°	25 kW
SC366-HF6LDF(D05-M-PIP)	7/16 DIN(F)	-150 dBc	5°	25 kW
SC366-HF6LDF(D06-M-PIP)	7/16 DIN(F)	-150 dBc	6°	25 kW
SC366-HF6LDF(D07-M-PIP)	7/16 DIN(F)	-150 dBc	7°	25 kW
SC366-HF6LDF(D08-M-PIP)	7/16 DIN(F)	-150 dBc	8°	25 kW
SC366-HF6LDF(D00-M)	7/16 DIN(F)	-150 dBc	0°	N/A
SC366-HF6LDF(D01-M)	7/16 DIN(F)	-150 dBc	1°	N/A
SC366-HF6LDF(D02-M)	7/16 DIN(F)	-150 dBc	2°	N/A
SC366-HF6LDF(D03-M)	7/16 DIN(F)	-150 dBc	3°	N/A
SC366-HF6LDF(D04-M)	7/16 DIN(F)	-150 dBc	4°	N/A
SC366-HF6LDF(D05-M)	7/16 DIN(F)	-150 dBc	5°	N/A
SC366-HF6LDF(D06-M)	7/16 DIN(F)	-150 dBc	6°	N/A
SC366-HF6LDF(D07-M)	7/16 DIN(F)	-150 dBc	7°	N/A
SC366-HF6LDF(D08-M)	7/16 DIN(F)	-150 dBc	8°	N/A
SC366-HF6LNF(D00-M)	N(F)	-139 dBc	0°	N/A

Null-filled models are available for optimized close-up coverage at 5.5 dBd gain:

Model Number	Connector	PIM	Downtilt	PIP (max)
SC366-HF6LDF(D00-M-NuF)	7/16 DIN(F)	-150 dBc	0°	N/A



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

Electrical Specifications

Frequency Range	MHz	320 to 355	
Bandwidth	MHz	35	
Connector		Various options avail.	*1
Gain (nominal)	dBd (dBi)	6 (8.1)	*2
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, lightning spike	
Electrical tilt (available)		0 to 10 degrees	

Notes

- *1 : See previous page for details
- *2 : Null-filled (NuF) models @ 5.5 dBd, see previous page for details.
- *3 : D00 model can be installed upright or inverted; downtilt and null-filled (NuF) 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

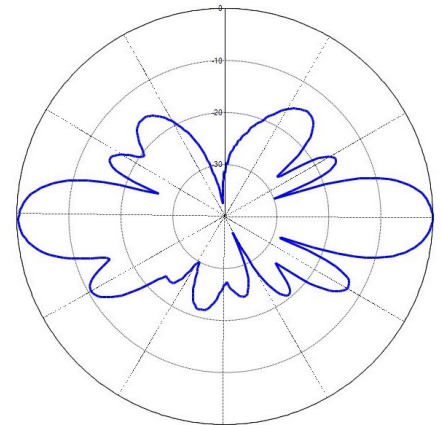
Clamps must be purchased separately.

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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