SC366-HF2LDF(DXX-M) Aurora™ collinear omni antenna, 6 dBd, HD, low PIM, 450-512 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 250 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 cutting-edge patent-pending and field-proven balanced design technology, which not only delivers outstanding bandwidth and unbeatable stable RF pattern across the whole band, but also resulting in enhanced wind rating due to the shortened total length comparing to traditional design. The antenna is housed in a rugged, UV resistant, fiberglass radome that offers superior environmental protection and will last for years. 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. Inverted, null fill and PIP rated versions are also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Gain(dBd)	Downtilt	CTM#	Mounting Config.
SC366-HF2LDF(D00-M)	6	0º	006757	upright / inverted
SC366-HF2LDF(D01-M)	6	1º	006763	upright
SC366-HF2LDF(D02-M)	6	2º	006763	upright
SC366-HF2LDF(D03-M)	6	3º	006763	upright
SC366-HF2LDF(D04-M)	6	4º	006763	upright
SC366-HF2LDF(D05-M)	6	5º	006763	upright
SC366-HF2LDF(D06-M)	6	6º	006763	upright
SC366-HF2LDF(D07-M)	6	7º	006763	upright
SC366-HF2LDF(D08-M)	6	8º	006763	upright
SC366-HF2LDF(D09-M)	6	9º	006763	upright
SC366-HF2LDF(D10-M)	6	10º	006763	upright

For offset side mount, recommend SMK or SMKT mounting kit, see details in the next page. Available from Sinclair separately. Complies with EIA/TIA-329 standard.

www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
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Electrical Specifications

Frequency Range	MHz	450 to 512
Bandwidth	MHz	62
Connector		7/16 DIN-Female
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		Lightning spike
DC Ground		YES
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)	108 (2743)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	22 (9.99)	
Mounting Hardware (Optional)		Clamp147, or Clamp147M	*1
Recommended For Offset Side Mount:		SMK-335-A3 or SMK-335-A7	*2
Mounting configurations		upright, inverted	*3
Estimated Shipping Weight	lbs (kg)	54 (24.52)	
Shipping dimensions	in (mm)	123x6x6 (3124x152x152)	

Environmental Specifications

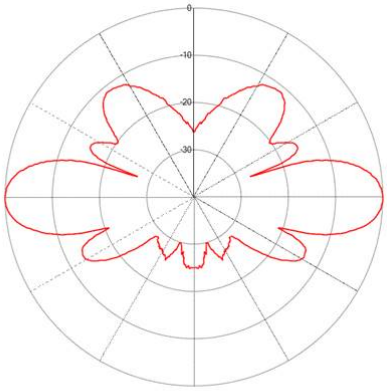
Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.6 (0.15)
Wind Loading Area (1/2" ice)	ft² (m²)	2.1 (0.2)
Rated wind velocity (no ice)	mph (km/h)	250 (403)
Rated wind velocity (1/2" radial ice)	mph (km/h)	210 (338)
Lateral Thrust (100 mph No Ice)	lbs (N)	61 (271.3)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	203 (274.1)

Notes

*1 : Qty: 2
*2 : Straight tower legs. For slanted tower legs, recommend SMKT-335-A3-T5 or SMKT-335-A7-T5.
*3 : D00 model can be installed upright or inverted; downtilt models upright only.

Ordering Information

Clamps must be purchased separately.



Vertical, 0° Downtilt

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