

SC347-HF8LDF(D00-M) Aurora™ collinear omni antenna, 7.5 dBd, HD, low PIM, 470-490 MHz

- High gain, omni-directional pattern
- Patent-pending Aurora™ design for stable pattern
- Heavy duty construction and UV protected radome for long life
- -150dBc PIM rating for low noise characteristics, ideal for trunking systems

The SC347 series is Sinclair's next-generation heavy-duty omni-directional antenna that utilizes cutting-edge patent-pending technology achieving an unmatched combination of wideband, high gain, lightweight, and stable RF performance. The stable RF pattern means this antenna can easily meet the stringent requirement of high-performance systems on pattern stability to achieve optimal coverage control. The antenna is fully DC grounded on all elements for the ultimate lightning protection and dissipation of static noise. Severe weather conditions have been fully considered in its heavy-duty construction, including the rugged UV resistant fiberglass radome for harsh environment, carefully designed internal supporting structure, certified long-life components, the extra long base pipe for high wind rating, and the high-strength hot-dip galvanized clamps (optional) for secure mounting, etc. This antenna can be installed with confidence wherever wind, ice, or snow can be a problem.

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



Antenna may not appear exactly as picture.

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
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### Electrical Specifications

Frequency Range	MHz	470 to 490	
Bandwidth	MHz	20	
Connector		7/16 DIN-Female	*1
Gain (nominal)	dBd (dBi)	7.5 (9.6)	*2
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni-directional	
3dB beamwidth, vertical	degrees	10	*3
Average Input Power (max)	W	250	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
Lightning protection		DC ground	

### Notes

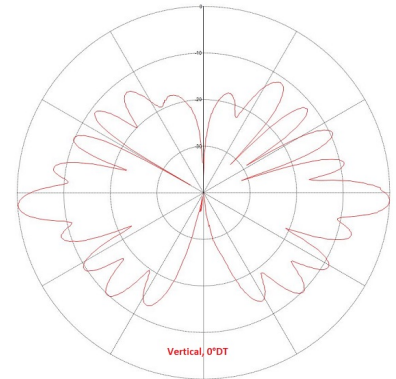
- \*1 : Flange mount
- \*2 : ±1 dBd
- \*3 : +/-1 degree
- \*4 : Qty. 2

### Mechanical Specifications

Width	in (mm)	2.88 (73)	
Depth	in (mm)	2.88 (73)	
Length/ Height	in (mm)	150 (3810)	
Base pipe diameter	in (mm)	2.88 (73)	
Base pipe mounting length	in (mm)	18 (457)	
Radiating element material		Brass & PCB	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	23 (10.44)	
Weight iced (1/2" ice)	lbs (kg)	46 (20.88)	
Mounting configurations		upright	
Mounting Hardware (Optional)		Clamp005, or Clamp005X	*4
Kit For Offset Side Mount (straight tower leg)		SMK-225-A3-T5 or SMK-225-A7-T5	
Estimated Shipping Weight	lbs (kg)	56 (25.42)	
Shipping dimensions	in (mm)	154x4.5x4.5 (3912x114x114)	

### Ordering Information

Clamps must be purchased separately.



### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.7 (0.16)
Wind Loading Area (1/2" ice)	ft² (m²)	2.4 (0.22)
Survival wind velocity (no ice)	mph (km/h)	315 (507)
Survival wind velocity (1/2" radial ice)	mph (km/h)	252 (406)
Rated wind velocity (no ice)	mph (km/h)	225 (362)
Rated wind velocity (1/2" radial ice)	mph (km/h)	180 (290)
Lateral Thrust (100 mph No Ice)	lbs (N)	65 (289.1)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	301 (406.4)
Tip deflection (100 mph No Ice)	degrees	1.3

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