

SC347-HF3(YYY)(D00-M) Collinear omni antenna, 7.5 dBd gain, HD, low PIM, 450-470 MHz

- High gain, omni-directional pattern
- Patent-pending Aurora™ design for stable pattern
- Heavy duty construction and UV protected radome for long life
- -150 dBc 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, high-strength hot-dip galvanized clamps for secure mounting, etc. This antenna can be installed with confidence wherever wind, ice or snow can be a problem.

When ordering, please refer to the chart below for the model number. PIM rating is subject to specific models.

Model number	Connector	PIM (dBc)
SC347-HF3LDF(D00-M)	7/16 DIN(F)	-150
SC347-HF3SNF(D00-M)	N(F)	-



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
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SC347-HF3(YYY)(D00-M)	Issue: 0	Dated: 10-02-22

Electrical Specifications

Frequency Range	MHz	450 to 470	
Bandwidth	MHz	20	
Connector		Various options avail.	*1
Gain (nominal)	dBd (dBi)	7.5 (9.6)	*2
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni- directional	
Vertical beamwidth (typ)	degrees	10	
Average Input Power (max)	W	250	
Lightning protection		DC ground	
Electrical tilt (available)		0, 2, 4 available	

Notes

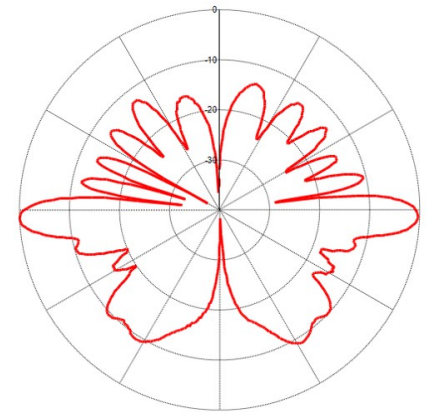
- *1 : See previous page for details.
- *2 : ±1
- *3 : Qty. 2
- *4 : Available from Sinclair separately.

Mechanical Specifications

Width	in (mm)	2.88 (73)	
Depth	in (mm)	2.88 (73)	
Length/ Height	in (mm)	157.36 (3997)	
Base pipe diameter	in (mm)	2.88 (73)	
Base pipe mounting length	in (mm)	18 (457)	
Radiating element material		brass	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	24 (10.9)	
Weight iced (1/2" ice)	lbs (kg)	48 (21.79)	
Mounting Hardware (Optional)		Clamp005, or Clamp005X	*3
Kit For Offset Side Mount (straight tower leg)		SMK-225-A3-T5 or SMK-225-A7-T5	*4
Estimated Shipping Weight	lbs (kg)	42 (19.07)	
Shipping dimensions	in (mm)	208x4.5x4.5 (5283x114x114)	

Ordering Information

Clamps must be purchased separately.



Vertical, 0°, Downtilt

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)
Rated wind velocity (no ice)	mph (km/h)	200 (322)
Rated wind velocity (1/2" radial ice)	mph (km/h)	160 (258)
Lateral Thrust (100 mph No Ice)	lbs (N)	65 (289.1)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	305 (411.8)
Tip deflection (100 mph No Ice)	degrees	1.3

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