

SC364-HF3LDF(DXX-PIP) Aurora™ collinear omni antenna, 4 dBd, HD, low PIM, PIP-rated, 450-512 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 wind rating for long life and reliability

Sinclair's SC364 series of antennas are broadband, heavy-duty, omni-directional antennas that cover the 380-512 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 results in enhanced wind rating due to the shortened total length compared 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.

Model Number	Downtilt	Mounting Config.
SC364-HF3LDF(D00-PIP)	0°	upright / inverted

* Downtilt versions are available, please contact your Sinclair Sales Representative or Customer Service Representative for more information.

* For offset side mount, recommend SMK or SMKT mounting kit, see details on the next page. Available from Sinclair separately.



Antenna may not appear exactly as shown

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SC364-HF3LDF(DXX-PIP)	Issue: 1	Dated: 22-03-24

Electrical Specifications

Frequency Range	MHz	450 to 512
Bandwidth	MHz	62
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	4 (6.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	20
Average Input Power (max)	W	500
Number of ports		1
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
PIP(KW, max)		25
Grounding		All metal parts DC-grounded

Notes

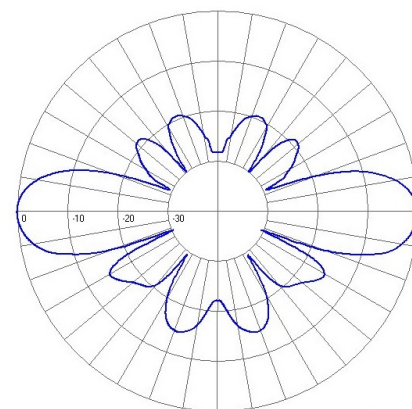
- *1 : $\pm 5\%$
- *2 : Qty. 2
- *3 : D00 model can be installed upright or inverted; Downtilt models upright only
- *4 : Optional. Complies with EIA/TIA-329 standard.
- *5 : Optional. Complies with EIA/TIA-329 standard.

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)	83.8 (2129)	*1
Base pipe diameter	in (mm)	3.5 (89)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	19 (8.63)	
Weight iced (1/2" ice)	lbs (kg)	33 (14.98)	
Mounting Hardware (Optional)		Clamp147, or Clamp147M	*2
Mounting configurations		upright, inverted	*3
Kit for Offset Side Mount (straight tower leg)		SMK-335-A3 or SMK-335-A7	*4
Kit for Offset Side Mount (slanted tower leg)		SMKT-335-A3-T5 or SMKT-335-A7-T5	*5
Estimated Shipping Weight	lbs (kg)	44 (19.98)	
Shipping dimensions	in (mm)	89x6x6 (2261x152x152)	
Radome Colour		Light Blue	



Vertical - 0° downtilt

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.1 (0.1)
Wind Loading Area (1/2" ice)	ft² (m²)	1.5 (0.14)
Rated wind velocity (no ice)	mph (km/h)	280 (451)
Rated wind velocity (1/2" radial ice)	mph (km/h)	240 (386)
Lateral Thrust (100 mph No Ice)	lbs (N)	44 (195.7)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	98 (132.3)
Tip deflection (100 mph No Ice)	degrees	0.1

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