

SC473-HF1LDF(D00) Collinear omni, 4 dBd, low PIM, HD, 746-869 MHz

- Covers the 746-869 MHz frequency range
- 500 Watt average power handling capability
- Heavy-duty, low PIM construction
- Can be mounted upright or inverted

Sinclair's SC473-HL Series of antennas are broad band covering the entire 746-869 MHz frequency range and offers 4 dBd of gain. It is constructed to minimize intermodulation products in multi-carrier systems. It is ideal for applications requiring a broad band antenna with limited tower space.

Downtilt versions are available as per request.



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	746 to 869
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	4 (6.1)
VSWR (max)		1.5:1
Polarization		vertical
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	28
Average Power Input (max)	W	500
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Main Beam Electrical Tilt (Downtilt)	degrees	0 to 5

Mechanical Specifications

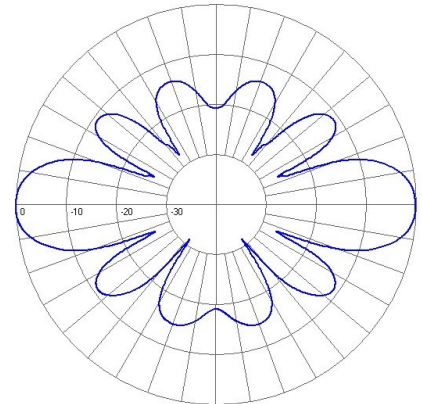
Width	in (mm)	3.5 (89)
Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	58.5 (1486)
Base pipe diameter	in (mm)	3.5 (89)
Base pipe mounting length	in (mm)	14 (356)
Radiating element material		copper/ zinc
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	17 (7.72)
Weight iced (1/2" ice)	lbs (kg)	28 (12.71)
Mounting Hardware (Optional)		Clamp147
Shipping Length/ Height	in (mm)	82.5 (2096)
Estimated Shipping Weight	lbs (kg)	26 (11.8)
Shipping dimensions	in (mm)	78x6x6 (1981x152x152)
Mounting configurations		upright, inverted

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.83 (0.08)
Wind Loading Area (1/2" ice)	ft² (m²)	1.1 (0.1)
Rated wind velocity (no ice)	mph (km/h)	370 (596)
Rated wind velocity (1/2" radial ice)	mph (km/h)	325 (523)
Lateral thrust (100 mph No Ice)	lbs (N)	33 (146.8)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	51.1 (69)
Tip deflection (100 mph No Ice)	degrees	0.048

Ordering Information

Units with no downtilt support universal mount (upright or inverted)



Vertical, 0° DT

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