

SD314-HF2P2LDF(D00-PIP) 4 dipole, 7 dBd, bi-directional, low PIM, PIP rated, HD, 406-470 MHz

- Industry-leading -150dBc PIM rating
- 7 dBd gain with bi-directional pattern
- Heavy duty wind ratings, 200 W power handling
- Can be top or side mount (Universal mount)

Recommend SMK-125-A3 for Offset Side Mount. Available from Sinclair separately.

The SD314-HL series is an extremely rugged 4-bay exposed dipole antenna designed for applications where moderate gain is required. These premium-quality antennas are well suited to public safety applications.

The design of these antennas provides for coverage between 370 to 512 MHz in 3 sub bands, 370-430 MHz, 406-470 MHz and 450-512 MHz for private mobile networks, public safety and public security networks.

The SC314-HL series is also a low PIM antenna, with a PIM rating of -150 dBc, the best in the industry.

The standard connector offered is 7/16 DIN female.



www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Electrical Specifications

Frequency Range	MHz	406 to 470
Bandwidth	MHz	64
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	7 (9.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Bi-directional
Vertical beamwidth (typ)	degrees	15
Average Input Power (max)	W	200
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
PIP(KW, max)		25
Lightning protection		DC ground
Electrical tilt (available)		0,2,4,6,8,or 10 degrees

Notes

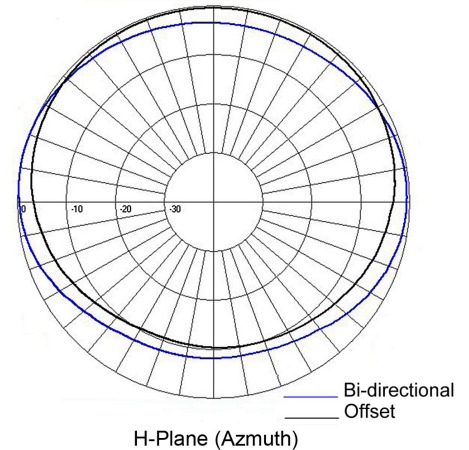
*1 : Qty 2

Mechanical Specifications

Width	in (mm)	18.5 (470)
Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	120 (3048)
Base pipe diameter	in (mm)	2.38 (60)
Base pipe mounting length	in (mm)	26 (660)
Radiating element material		aluminum
Base pipe material		aluminum
Weight	lbs (kg)	27 (12.26)
Weight iced (1/2" ice)	lbs (kg)	57 (25.88)
Mounting Hardware (Optional)		Clamp005, Clamp015, Clamp130, or Clamp125U *1
Recommended For Offset Side Mount:		SMK-125-A3
Mounting configurations		Universal Mount
Actual shipping weight	lbs (kg)	40 (18.16)
Shipping dimensions	in (mm)	124x4x20 (3150x102x508)

Ordering Information

Clamps must be ordered separately.



Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	2.16 (0.2)
Wind Loading Area (1/2" ice)	ft² (m²)	3.48 (0.32)
Rated wind velocity (no ice)	mph (km/h)	170 (274)
Rated wind velocity (1/2" radial ice)	mph (km/h)	125 (201)
Lateral Thrust (100 mph No Ice)	lbs (N)	78 (346.9)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	31 (41.9)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	302 (407.7)
Tip deflection (100 mph No Ice)	degrees	0.55

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