

SD310-HF2P2SNF 1 dipole 2 dBd, bi-directional, HD, 406-512 MHz

- Covers 406-512 MHz
- 2 dBd with bi-directional pattern
- Heavy duty wind ratings, 75W power handling
- Antenna can be bottom or side mounted.

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

The SD310 series of antennas is unique in its high efficiency and exceptionally wide bandwidth, covering the frequency range of 370-512 MHz in various sub-bands. Because of its bandwidth, the SD310 series is well suited for multicoupled systems.

The F1 sub-band covers 370-460 MHz, and the F2 sub-band covers 406-512 MHz with a VSWR of 1.5:1 over the sub-band.



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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 512
Connector		N-Female *1
Gain (nominal)	dBd (dBi)	2 (4.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Bi-directional
Vertical beamwidth (typ)	degrees	68
Average Power Input (max)	W	75
Lightning protection		DC ground
Electrical tilt (available)		Not Available

### Notes

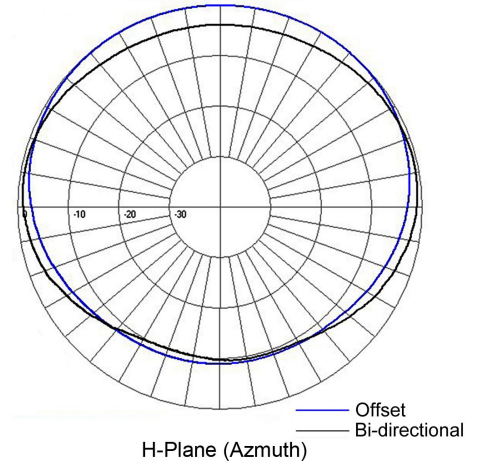
\*1 : N (male) optional

### Mechanical Specifications

Width	in (mm)	16 (406)
Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	60 (1524)
Base pipe diameter	in (mm)	1.9 (48)
Base pipe mounting length	in (mm)	24 (610)
Radiating element material		aluminum
Base pipe material		aluminum
Weight	lbs (kg)	8 (3.63)
Weight iced (1/2" ice)	lbs (kg)	11.2 (5.08)
Mounting Hardware (Optional)		Clamp005, Clamp015, Clamp130, or Clamp125U
Actual shipping weight	lbs (kg)	15 (6.81)
Shipping dimensions	in (mm)	62x19x4 (1575x483x102)
Mounting configurations		Universal Mount
Recommended For Offset Side Mount:		SMK-125-A3

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.69 (0.06)
Wind Loading Area (1/2" ice)	ft² (m²)	2.49 (0.23)
Rated wind velocity (no ice)	mph (km/h)	240 (386)
Rated wind velocity (1/2" radial ice)	mph (km/h)	190 (306)
Lateral thrust (100 mph No Ice)	lbs (N)	27.9 (124.1)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	5.3 (7.2)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	17.4 (23.5)



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