

SD310-HF2P4SNM 1 dipole 2.5 dBd, offset, HD, 406-512 MHz

Also referred as: SRL310C*2-4

- Single dipole antenna that covers 406-512 MHz
- 2.5 dBd gain with offset pattern
- Heavy duty, with 75W power handling
- Recommend SMK-125-A3 when side mounting

Recommend the SMK-125-A3 side mount kit which is 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 SD310 series is also available with external cabling which permits field adjustment of its pattern.

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.



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
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

Electrical Specifications

Frequency Range	MHz	406 to 512	
Connector		N-Male	*1
Gain (nominal)	dBd (dBi)	2.5 (4.6)	
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Offset	
Horizontal beamwidth (typ)	degrees	224	
Vertical beamwidth (typ)	degrees	68	
Average Power Input (max)	W	75	
Lightning protection		DC ground	
Electrical tilt (available)		Not Available	

Notes

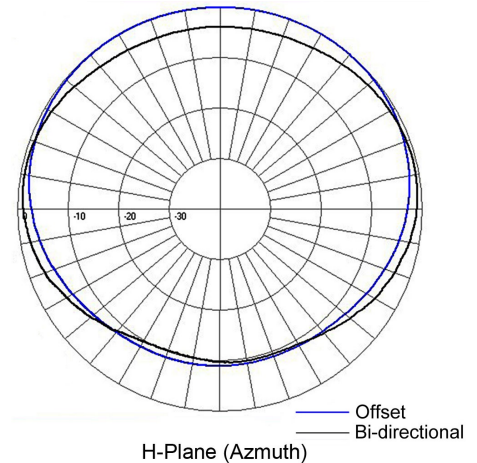
- *1 : Optional N-Female
- *2 : Values based on 100mph and 0 inches of ice.
- *3 : Values based on 100mph and 0 inches of ice.
- *4 : Values based on 100mph and 0 inches of ice.

Mechanical Specifications

Width	in (mm)	10.25 (260)	
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)	7.5 (3.41)	
Weight iced (1/2" ice)	lbs (kg)	10.7 (4.86)	
Mounting Hardware (Optional)		Clamp005, Clamp015, Clamp130, or Clamp125U	
Actual shipping weight	lbs (kg)	15 (6.81)	
Shipping dimensions	in (mm)	83x5x20 (2108x127x508)	
Mounting configurations		Universal Mount	
Recommended For Offset Side Mount:		SMK-125-A3	

Ordering Information

Clamps must be ordered separately. Recommend using an SMK-125-A3 side mounting kit



Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)	
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.65 (0.06)	
Wind Loading Area (1/2" ice)	ft² (m²)	2.31 (0.21)	
Rated wind velocity (no ice)	mph (km/h)	240 (386)	
Rated wind velocity (1/2" radial ice)	mph (km/h)	205 (330)	
Lateral thrust (100 mph No Ice)	lbs (N)	26.1 (116.1)	*2
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	2.5 (3.4)	*3
Bending moment (100 mph No Ice)	ft-lbs (Nm)	14.1 (19)	*4

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