

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.



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	

Mechanical Specifications

Depth	in (mm)	3.5 (89)	
Length/ Height	in (mm)	60 (1524)	
Width	in (mm)	10.25 (260)	
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	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	

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

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.

Ordering Information

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

