

SD310-HF2P2LDF

1 dipole 1.5 dBd, bi-directional, low PIM, HD, 406-470 MHz

Also referred as: SD310-HF2P2LDF(D00)

- Covers 406-470 MHz band
- 1.5 dBd with bi-directional pattern
- Heavy duty wind ratings, low PIM, 75W power handling
- Antenna can be bottom or side mounted.

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

The SD310-L series is an extremely rugged single-bay exposed dipole antenna designed for applications where Passive Intermodulation interference (PIM) is a consideration. These premium-quality antennas are well suited to public safety/public security applications in either the TETRA or APCO P-25 bands.

The SD310-L provides industry leading -150dBc Passive Intermodulation (PIM) performance, the result of a redesign of the SD310 platform to remove possible PIM sources from the antenna. Low-PIM design features include welded dipoles, low-PIM harness cables, power dividers and radiating elements, and a low-PIM 7/16DIN connector.

Application Notes

- The SD310-HL is available in a half-wave configuration (P2) providing 1.5 dBd gain in a bi-directional pattern, and a quarter-wave configuration (P4) providing 2 dBd gain in an offset pattern.



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

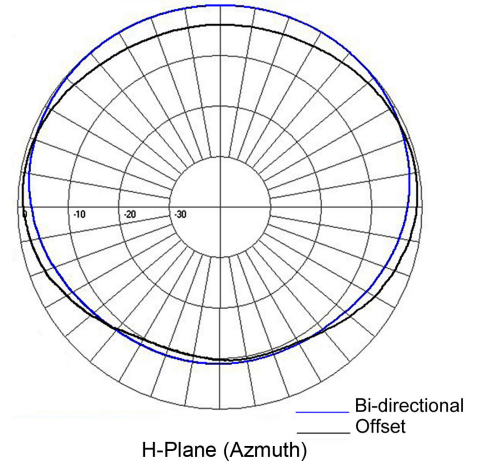
Frequency Range	MHz	406 to 470
Bandwidth	MHz	64
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	1.5 (3.6)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Bi-directional
Vertical beamwidth (typ)	degrees	78
Average Power Input (max)	W	75
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground

Mechanical Specifications

Width	in (mm)	18.75 (476)
Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	48.13 (1223)
Base pipe diameter	in (mm)	1.9 (48)
Base pipe mounting length	in (mm)	18 (457)
Radiating element material		aluminum
Base pipe material		aluminum
Weight	lbs (kg)	7 (3.18)
Weight iced (1/2" ice)	lbs (kg)	11 (4.99)
Mounting Hardware (Optional)		Clamp005, Clamp015, Clamp130, or Clamp125U
Actual shipping weight	lbs (kg)	13 (5.9)
Shipping dimensions	in (mm)	63x22x4 (1600x559x102)
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)	0.64 (0.06)
Wind Loading Area (1/2" ice)	ft² (m²)	1.1 (0.1)
Rated wind velocity (no ice)	mph (km/h)	265 (427)
Rated wind velocity (1/2" radial ice)	mph (km/h)	210 (338)
Lateral thrust (100 mph No Ice)	lbs (N)	23.1 (102.7)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	8.1 (10.9)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	29.6 (40)
Tip deflection (100 mph No Ice)	degrees	0.04



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