

SD310-HF3P2LDF

1 dipole 1.5 dBd, bi-directional, low PIM, HD, 450-512 MHz

Also referred as: SD310-HF3P2LDF(D00)

- Covers 450-512 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 applications in either the TETRA or APCO P-25 bands.

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.



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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	450 to 512
Bandwidth	MHz	62
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	75
Average Power Input (max)	W	75
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground

Notes

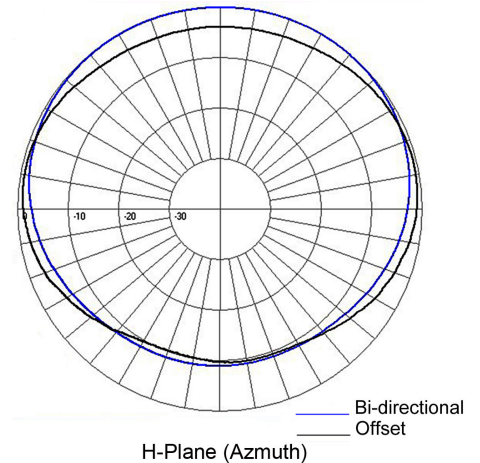
- *1 : @100mph/160kph, no ice
- *2 : @100mph/160kph, no ice
- *3 : @100mph/160kph, no ice

Mechanical Specifications

Width	in (mm)	17.1 (434)
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)	0.61 (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)	22 (97.9) *1
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	7.6 (10.3) *2
Bending moment (100 mph No Ice)	ft-lbs (Nm)	28 (37.8) *3
Tip deflection (100 mph No Ice)	degrees	0.04



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