

SD312-HF2P2LDF(D00) 2 dipole, 4.0 dBd, bi-directional, low PIM, HD, 406-470 MHz

- Covers 406-470 MHz frequency range
- 4.0 dBd with bi-directional pattern
- Heavy-duty wind ratings, low PIM, and 150W power handling
- Can be bottom or side mounted (Universal mount)

**Recommend the SMK-125-A3 side mount kit which is available from Sinclair separately**

The SD312-HL series is an extremely rugged 2-bay exposed dipole low PIM antenna designed for applications where moderate gain is required and Passive Intermodulation interference (PIM) is a consideration. These premium-quality antennas are well suited to public safety applications.



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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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Product Specification Sheet EPR 017919 Customer Tech Manual 005262		SD312-HF2P2LDF(D00)	Issue: 3	Dated: 14-12-16 Dated: 25-08-13

### Electrical Specifications

Frequency Range	MHz	406 to 470
Bandwidth	MHz	64
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	4 (6.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Bi-directional
Vertical beamwidth (typ)	degrees	32
Average Power Input (max)	W	150
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Electrical tilt (available)		0,2,4,6,8, or 10 degrees

### Mechanical Specifications

Width	in (mm)	18.9 (480)
Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	83.13 (2112)
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)	10.3 (4.68)
Weight iced (1/2" ice)	lbs (kg)	13.9 (6.31)
Mounting Hardware (Optional)		Clamp005, Clamp015, Clamp130, or Clamp125U
Actual shipping weight	lbs (kg)	20 (9.08)
Shipping dimensions	in (mm)	89x21x6 (2261x533x152)
Mounting configurations		Universal Mount
Recommended For Offset Side Mount:		SMK-125-A3

### Environmental Specifications

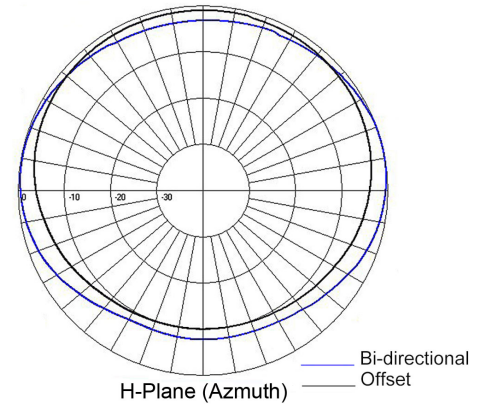
Temperature range	°F (°C)	-40 to +140 (-40 to +60)	
Wind Loading Area (Flat Plate Equivalent)	ft <sup>2</sup> (m <sup>2</sup> )	0.94 (0.09)	
Wind Loading Area (1/2" ice)	ft <sup>2</sup> (m <sup>2</sup> )	1.93 (0.18)	
Rated wind velocity (no ice)	mph (km/h)	235 (378)	
Rated wind velocity (1/2" radial ice)	mph (km/h)	165 (266)	
Lateral thrust (100 mph No Ice)	lbs (N)	42.1 (187.3)	*1
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	7.8 (10.5)	*2
Bending moment (100 mph No Ice)	ft-lbs (Nm)	121.25 (163.7)	*3
Tip deflection (100 mph No Ice)	degrees	0.25	*4

### Notes

- \*1 : @100mph/160kph, no ice
- \*2 : @100mph/160kph, no ice
- \*3 : @100mph/160kph, no ice
- \*4 : @100mph/160kph, no ice

### Ordering Information

N-type connectors also available



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