

SD312-HF2P2SNM(DXX) 2 dipole 5 dBd, bi-directional, HD, 406-512 MHz

Also referred as: SRL310C2*2-2

- Covers entire 406-512 MHz frequency range
- 5 dBd gain with bi-directional pattern
- Heavy duty with 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-H series is an extremely rugged 2-bay exposed dipole antenna designed for applications in the 370-512 MHz range where the moderate gain is required. These premium-quality antennas are well suited to public safety applications.

When ordering, please refer to the chart below for the model number. Downtilt configurations are subject to various list price. N-Female connector is also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Downtilt
SD312-HF2P2SNM(D00)	0°
SD312-HF2P2SNM(D02)	2°
SD312-HF2P2SNM(D04)	4°
SD312-HF2P2SNM(D06)	6°
SD312-HF2P2SNM(D08)	8°
SD312-HF2P2SNM(D10)	10°

Application Notes

- For lower gain applications the SD310 single dipole configuration is available. For higher gain, the SD314, 4 dipole and SD318, 8 dipole configurations are available. For medium gain applications the SD312 is ideal.



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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
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Electrical Specifications

Frequency Range	MHz	406 to 512
Bandwidth	MHz	106
Connector		N-Male *1
Gain (nominal)	dBd (dBi)	5 (7.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Bi-directional
Vertical beamwidth (typ)	degrees	36
Average Input Power (max)	W	150
Lightning protection		DC ground
Electrical tilt (available)		0,2,4,6,8, or 10 degrees

Notes

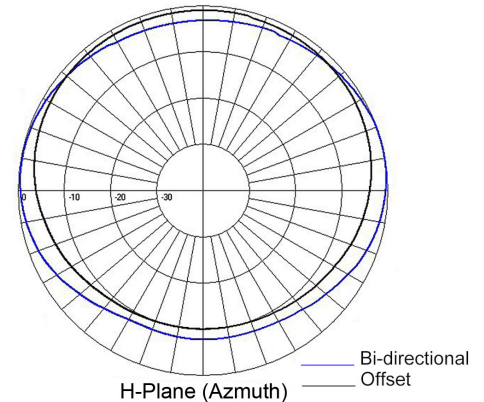
*1 : N-Female connector is also available.

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
Recommended For Offset Side Mount:		SMK-125-A3
Mounting configurations		Universal Mount
Actual shipping weight	lbs (kg)	21 (9.53)
Shipping dimensions	in (mm)	83x50x20 (2108x1270x508)

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.94 (0.09)
Wind Loading Area (1/2" ice)	ft² (m²)	1.93 (0.18)
Rated wind velocity (no ice)	mph (km/h)	235 (378)
Rated wind velocity (1/2" radial ice)	mph (km/h)	170 (274)
Lateral Thrust (100 mph No Ice)	lbs (N)	42.1 (187.3)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	7.8 (10.5)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	121.25 (163.7)
Tip deflection (100 mph No Ice)	degrees	0.25



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