

SD312-HF1P2SNM(D00) 2 dipole 5 dBd, bi-directional, N-Male, HD, 370-460 MHz

- Covers the entire 370-460 MHz frequency range
- 5 dBd gain with bi-directional pattern
- Heavy duty with 150 W 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 moderate gain is required. These premium-quality antennas are well suited to public safety applications.

Also available with a N-female connector as SD312-HF1P2SNF(D00).

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.



www.sinctech.com

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		SD312-HF1P2SNM(D00)	Issue: 9	Dated: 14-12-16
EPR	016854			Dated: 25-01-16
Customer Tech Manual	005262	Sinclair's commitment to product leadership may result in improvement or change to this product Copyright © Sinclair Technologies		

Electrical Specifications

Frequency Range	MHz	370 to 460
Bandwidth	MHz	90
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	34
Average Power Input (max)	W	150
Lightning protection		DC ground
Electrical tilt (available)		0,2,4,6,8, or 10 degrees

Notes

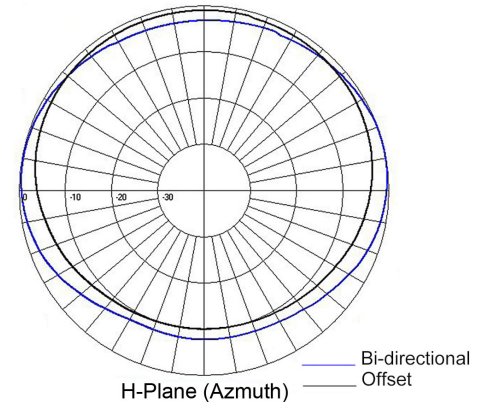
*1 : N-Female available

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)	14.1 (6.4)
Mounting Hardware (Optional)		Clamp005, Clamp015, Clamp130, or Clamp125U
Actual shipping weight	lbs (kg)	21 (9.53)
Shipping dimensions	in (mm)	83x50x20 (2108x1270x508)
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)	0.95 (0.09)
Wind Loading Area (1/2" ice)	ft² (m²)	1.96 (0.18)
Rated wind velocity (no ice)	mph (km/h)	230 (370)
Rated wind velocity (1/2" radial ice)	mph (km/h)	165 (266)
Lateral thrust (100 mph No Ice)	lbs (N)	42.5 (189)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	8.11 (10.9)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	122 (164.7)
Tip deflection (100 mph No Ice)	degrees	0.3



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