

[< Home](#)
[< Family](#)

SD318-H

8 dipole antenna, 9.3/10.2 gain, HD, 370-512 MHz

- Covers 370-512 MHz in 2 band splits
- 9.3 dBd gain in elliptical (bi-directional) pattern (1/2 wave), 10.2 dBd gain offset pattern (1/4 wave)
- Heavy duty wind rating and 150W power handling
- Recommend using an SMK-125-A7 side mounting kit

The SD318-H series is an extremely rugged 8-bay exposed dipole antenna designed for applications where moderate gain is required. These premium-quality antennas are well suited to public safety/public security applications.

The design of these antennas provides for coverage between 370 to 512 MHz in 2 sub bands, 370-460 MHz and 406-512 MHz for private mobile networks, public safety and public security networks.

The standard connector offered is N-type (male).

Clamps are not included but recommended is a set of #5 clamps.

Model	Description	Pattern
SD318-HF1P2SNM	9.3 dBd gain, elliptical, HD, N (male) connector, 380-460 MHz	Bi-directional
SD318-HF1P4SNM	10.2 dBd gain, offset, HD, N (male) connector, 380-460 MHz	Offset
SD318-HF2P2SNM	9.3 dBd gain, elliptical, HD, N (male) connector, 406-512 MHz	Bi-directional
SD318-HF2P4SNM	10.2 dBd gain, offset, HD, N (male) connector, 406-512 MHz	Offset



www.sinctech.com

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) 1223 42 03 03	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
Product Specification Sheet		SD318-H		Dated: 05-02-10

[SD318-HF1P2SNM](#)

[SD318-HF1P4SNM](#)

[SD318-HF2P2SNM](#)

[SD318-HF2P4SNM](#)

Electrical Specifications

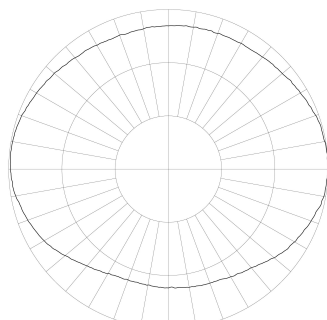
Frequency Range, MHz	380 to 460	380 to 460	406 to 512	406 to 512
Gain (nominal), dBd (dBi)	9.3 (11.4)	10.2 (12.3)	9.3 (11.4)	10.2 (12.3)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical	vertical
Pattern	Bi-directional	Offset	Bi-directional	Offset
Horizontal beamwidth, degrees		222		222
Vertical beamwidth, degrees	8	8	8	8
Average Power Input (max), W	150	150	150	150
Lightning protection	DC ground	DC ground	DC ground	DC ground

Mechanical Specifications

Connector	N (male)	N (male)	N (male)	N (male)
Length/ Height, in (mm)	204 (5182)	204 (5182)	204 (5182)	204 (5182)
Width, in (mm)	16 (406)	12 (305)	16 (406)	12 (305)
Depth, in (mm)	3.5 (89)	3.5 (89)	3.5 (89)	3.5 (89)
Base pipe diameter, in (mm)	2.4 (60)	2.4 (60)	2.4 (60)	2.4 (60)
Base pipe mounting length, in (mm)	48 (1219)	48 (1219)	48 (1219)	48 (1219)
Weight, lbs (kg)	46 (20.9)	48 (21.8)	48 (21.8)	46 (20.9)
Actual Shipping weight, lbs (kg)	85 (38.6)	80 (36.3)	85 (38.6)	80 (36.3)
Shipping dimensions, in (mm)	209x5x24in ()	209x5x24in ()	209x5x24in ()	209x5x24in ()
Mounting hardware	clamps not supplied	clamps not supplied	clamps not supplied	clamps not supplied

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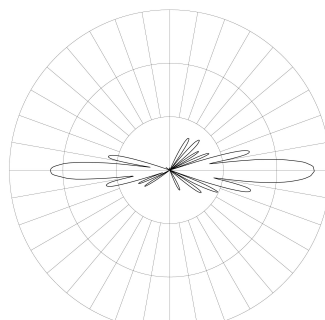


MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Azimuth
Relative Gain - 10 dB per Division

SD318-HF1P2SNM

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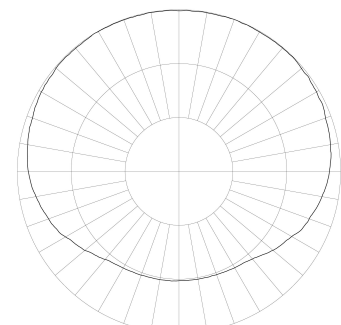


MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SD318-HF1P2SNM

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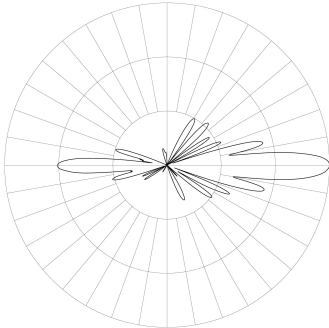
MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Azimuth
Relative Gain - 10 dB per Division

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MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

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