

## 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        |
|--------------------------------|---|----------------|
| <a href="#">SD318-HF1P2SNM</a> | 9.3 dBd gain, elliptical, HD, N (male) connector, 380-460 MHz | Bi-directional |
| <a href="#">SD318-HF1P4SNM</a> | 10.2 dBd gain, offset, HD, N (male) connector, 380-460 MHz    | Offset         |
| <a href="#">SD318-HF2P2SNM</a> | 9.3 dBd gain, elliptical, HD, N (male) connector, 406-512 MHz | Bi-directional |
| <a href="#">SD318-HF2P4SNM</a> | 10.2 dBd gain, offset, HD, N (male) connector, 406-512 MHz    | Offset         |





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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) 1223 42 03 03                           | International: +1 905 726 7676                                 | Canada: 1 800 263 3275<br>International: +1 905 727 0165         |
| E-mail                      | <a href="mailto:salesusa@sinctech.com">salesusa@sinctech.com</a> | <a href="mailto:salesuk@sinctech.com">salesuk@sinctech.com</a> | <a href="mailto:salesla@sinctech.com">salesla@sinctech.com</a> | <a href="mailto:salescan@sinctech.com">salescan@sinctech.com</a> |
| Product Specification Sheet |  | SD318-H  |  | Dated: 05-02-10  |

SD318-HF1P2SNM

SD318-HF1P4SNM

SD318-HF2P2SNM

SD318-HF2P4SNM

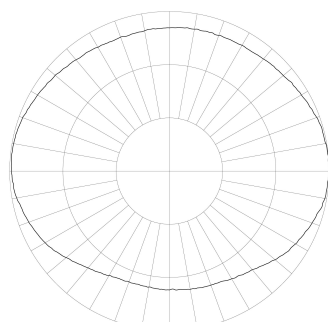
**Electrical Specifications**

|                               |                |             |                |             |
|-------------------------------|----------------|-------------|----------------|-------------|
| 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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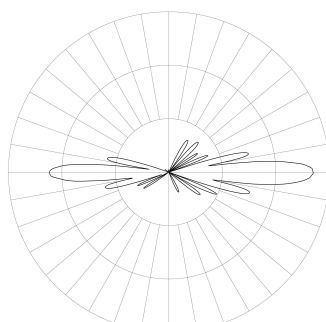
MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Azimuth

Relative Gain - 10 dB per Division

SD318-HF1P2SNM

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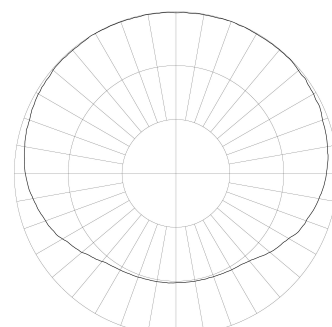
MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation

Relative Gain - 10 dB per Division

SD318-HF1P2SNM

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MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

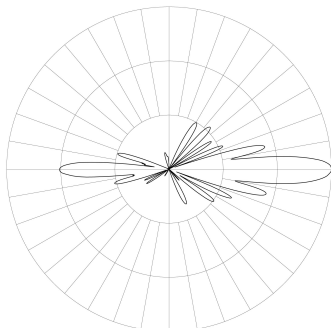
Azimuth

Relative Gain - 10 dB per Division

SD318-HF1P4SNM

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| Product Specification Sheet |                       | SD318-H                              |                                | Dated: 05-02-10  |

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MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

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