

SD312-HF5P2SNM(D00) 2 dipole 5 dBd, bi-directional, N-Male, HD, 300-380 MHz

- Covers 300-380 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 300-512 MHz range where moderate gain is required. These premium-quality antennas are well suited to public safety applications.

### 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.



Antenna may not appear exactly as picture.

| Region           | United States         | Europe, Middle East and Africa       | Caribbean and Latin America    | Canada and rest of the world                             |
|------------------|-----------------------|--------------------------------------|--------------------------------|--|
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### Electrical Specifications

|                             |           |                          |
|-----------------------------|-----------|--------------------------|
| Frequency Range             | MHz       | 300 to 380               |
| Bandwidth                   | MHz       | 80                       |
| 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 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

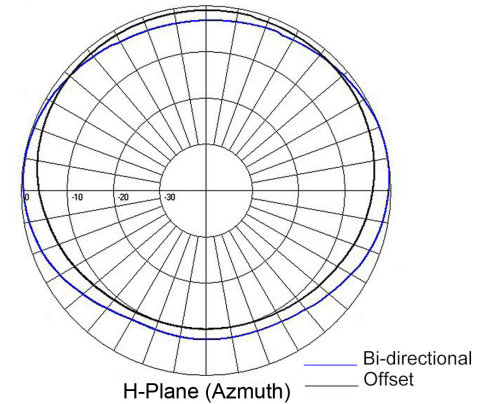
|                                    |          |  |
|------------------------------------|----------|--|
| Width                              | in (mm)  | 21 (533)                                   |
| Depth                              | in (mm)  | 3.5 (89)                                   |
| Length/ Height                     | in (mm)  | 80 (2032)                                  |
| 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) | 12.1 (5.49)                                |
| Weight iced (1/2" ice)             | lbs (kg) | 20.3 (9.22)                                |
| Mounting Hardware (Optional)       |          | Clamp005, Clamp015, Clamp130, or Clamp125U |
| Actual shipping weight             | lbs (kg) | 20 (9.08)                                  |
| Shipping dimensions                | in (mm)  | 85x27x5 (2159x686x127)                     |
| 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)    | 0.9 (0.08)               |
| Wind Loading Area (1/2" ice)              | ft² (m²)    | 2 (0.19)                 |
| 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)     | 42.8 (190.4)             |
| Torsional moment (100 mph No Ice)         | ft-lbs (Nm) | 20 (27)                  |
| Bending moment (100 mph No Ice)           | ft-lbs (Nm) | 93 (125.6)               |
| Tip deflection (100 mph No Ice)           | degrees     | 0.22                     |

### Ordering Information

Clamps must be ordered separately.



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