TALLEY
A REXEL COMPANY
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Antennas
Low Band, Aviation, and VHF Antennas
SD212 Series

# SD212-SF2P2SNM(DXX-BT) 2 dipole, 5.0 dBd, bi-directional, weather seal boot, 138-174 MHz

- Covers the entire 138-174 MHz frequency range
- 5.0 dBd gain with bi-directional pattern
- Can be top or side mounted (Universal mount)
- Weather seal boot equipped for ease of connector waterproofing in the field

**Recommend SMK-125-A3 or SMK-125-A7 for Offset Side Mount.**
**Available from Sinclair separately.**

The SD212 series is a 2-bay exposed dipole antenna designed for applications where the moderate gain is required. These premium-quality antennas are well suited to public safety applications.

The design of these antennas provides for coverage from 118 to 225 MHz in 3 subbands, 118-138 MHz for civil aviation applications, 138-174 MHz for private mobile networks, and public safety, and 220-225 MHz for transportation networks.

The standard connector offered is N-male which is terminated on a 1-foot cable.

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

| Model Number | Downtilt |
|---|---|
| SD212-SF2P2SNM(D00-BT) | 0º |
| SD212-SF2P2SNM(D02-BT) | 2º |
| SD212-SF2P2SNM(D04-BT) | 4º |
| SD212-SF2P2SNM(D06-BT) | 6º |
| SD212-SF2P2SNM(D08-BT) | 8º |
| SD212-SF2P2SNM(D10-BT) | 10º |

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**Electrical Specifications**

| | | |
|---|---|---|
| Frequency Range | MHz | 138 to 174 |
| Bandwidth | MHz | 36 |
| Connector | | N-Male |
| 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 Input Power (max) | W | 300 |
| Lightning protection | | DC ground |
| Electrical tilt (available) | | 0,2,4,6,8, or 10 degrees |

**Mechanical Specifications**

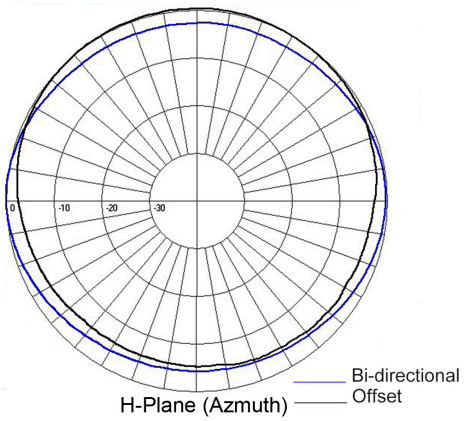
| | | |
|---|---|---|
| Width | in (mm) | 40 (1016) |
| Depth | in (mm) | 3 (76) |
| Length/ Height | in (mm) | 120 (3048) |
| Base pipe diameter | in (mm) | 1.9 (48) |
| Base pipe mounting length | in (mm) | 36 (914) |
| Radiating element material | | aluminum |
| Base pipe material | | aluminum |
| Weight | lbs (kg) | 22.5 (10.22) |
| Weight iced (1/2" ice) | lbs (kg) | 55 (24.97) |
| Mounting Hardware (Optional) | | Clamp005, Clamp015, or Clamp130 *1 |
| Recommended For Offset Side Mount: | | SMK-125-A3 or SMK-125-A7 |
| Mounting configurations | | Universal Mount |
| Actual shipping weight | lbs (kg) | 45 (20.43) |
| Shipping dimensions | in (mm) | 124x48x6 (3150x1219x152) |

**Environmental Specifications**

| | | |
|---|---|---|
| Temperature range | °F (°C) | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent) | ft² (m²) | 2.14 (0.2) |
| Wind Loading Area (1/2" ice) | ft² (m²) | 3.71 (0.34) |
| Rated wind velocity (no ice) | mph (km/h) | 140 (225) |
| Rated wind velocity (1/2" radial ice) | mph (km/h) | 105 (169) |
| Lateral Thrust (100 mph No Ice) | lbs (N) | 77 (342.5) |
| Torsional moment (100 mph No Ice) | ft-lbs (Nm) | 83 (112.1) |
| Bending moment (100 mph No Ice) | ft-lbs (Nm) | 247 (333.5) |
| Tip deflection (100 mph No Ice) | degrees | 1.02 |
| Connector weather seal boot | | Times IPB-400 NM |

**Notes**
*1 : Qty 2 required

**Ordering Information**
Clamps must be ordered separately.
When ordering, please refer to the model list on the previous page for specific model numbers and downtilt configurations.

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