

SD212-SF2P4SNM(D00S-WABK) 2 dipole, 5.5 dBd, offset, side mount, welded, ABK, 138-174 MHz

Also referred as: SRL210C2NM*2-4

- 2-bay dipole antenna that covers the 138-174 MHz band
- 5.5 dBd gain in offset pattern (1/4 wave configuration)
- 300 W power handling
- Side mount, welded and black anodized

Recommend the SMK-125-A3 side mount kit which is available from Sinclair separately (Spacing from 3' - 18")

The SD212 series is an extremely rugged 2-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 118 to 225 MHz in 3 sub bands, 118-138MHz for civil aviation applications, 138-174MHz for private mobile networks, public safety and public security and 220-225MHz for transportation networks.

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

Application Notes

- Sub bands:
118-138 MHz (F1)
138-174 MHz (F2)
190-225 MHz (F3)

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| 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 | 138 to 174 |
| Bandwidth | MHz | 36 |
| Connector | | N-Male |
| Gain (nominal) | dBd (dBi) | 5.5 (7.6) |
| Input VSWR (max) | | 1.5:1 |
| Polarization | | vertical |
| Impedance | Ω | 50 |
| Pattern | | Offset |
| Horizontal beamwidth (typ) | degrees | 210 |
| Vertical beamwidth (typ) | degrees | 34 |
| Average Power Input (max) | W | 300 |
| Lightning protection | | DC ground |
| Electrical tilt (available) | | 0,2,4,6,8, or 10 degrees |

Notes

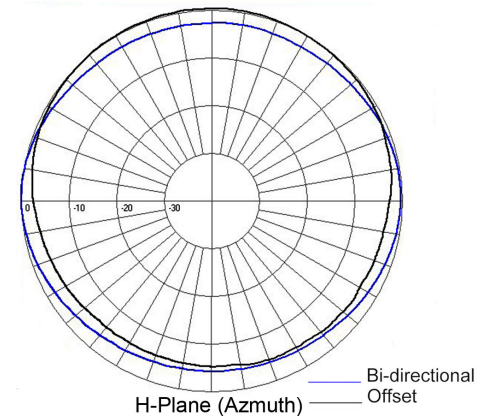
*1 : Qty 2 required

Mechanical Specifications

| | | |
|------------------------------------|----------|------------------------------------|
| Width | in (mm) | 23 (584) |
| Depth | in (mm) | 3 (76) |
| Length/ Height | in (mm) | 120 (3048) |
| Base pipe diameter | in (mm) | 2.38 (60) |
| Base pipe mounting length | in (mm) | 96 (2438) |
| Radiating element material | | aluminum |
| Base pipe material | | aluminum |
| Finish | | anodize (black) |
| Weight | lbs (kg) | 23 (10.44) |
| Weight iced (1/2" ice) | lbs (kg) | 55 (24.97) |
| Mounting Hardware (Optional) | | Clamp005, Clamp015, or Clamp130 *1 |
| Actual shipping weight | lbs (kg) | 40 (18.16) |
| Shipping dimensions | in (mm) | 124x26x6 (3150x660x152) |
| Mounting configurations | | side mount |
| Recommended For Offset Side Mount: | | SMK-125-A3 or SMK-125-A7 |
| Boom mast junction | | welded |

Ordering Information

Clamps must be ordered separately.



Environmental Specifications

| | | |
|-------------------------------------------|-------------|--------------------------|
| Temperature range | °F (°C) | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent) | ft² (m²) | 2.1 (0.2) |
| Wind Loading Area (1/2" ice) | ft² (m²) | 3.4 (0.32) |
| Rated wind velocity (no ice) | mph (km/h) | 190 (306) |
| Rated wind velocity (1/2" radial ice) | mph (km/h) | 150 (242) |
| Lateral thrust (100 mph No Ice) | lbs (N) | 76 (338) |
| Torsional moment (100 mph No Ice) | ft-lbs (Nm) | 32 (43.2) |
| Bending moment (100 mph No Ice) | ft-lbs (Nm) | 94 (126.9) |
| Tip deflection (100 mph No Ice) | degrees | 0.1 |

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