

SD224-SF5PASNM Exposed dipole, 6 dBd omni/ 9 dBd offset, field adjustable, N-Male, 152-162 MHz

- 6 dBd in omni-directional configuration, 9 dBd in offset configuration
- 10 MHz bandwidth, covering 152-162 MHz
- Easy to install light structural design
- For Omni pattern bottom mount; For Offset pattern side mount

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

The SD224 is a 4-dipole broadband gain antenna that is field adjustable to provide an omnidirectional or offset coverage pattern.

Because external cabling is used, the antenna pattern is easily changed in the field. Field adjustment guidelines are provided.

The SD224 provides 9dBd gain in the offset configuration, and 6dBd gain in the omni-directional configuration.

The SD224 series covers the 128-174MHz band in 8 band splits. This model (F5) covers 152-162MHz.

Application Notes

- The field adjustable SD224 series is designed for use where either an omni-directional pattern or a higher gain offset pattern may be required.



| 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) 1487 84 28 19 | 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 |

Electrical Specifications

| | | | |
|----------------------------|---------|----------------------------|----|
| Frequency Range | MHz | 152 to 162 | |
| Bandwidth | MHz | 10 | |
| Connector | | N-Male | |
| Gain (nominal) | | 6 or 9 dBd | *1 |
| Input VSWR (max) | | 1.5:1 | |
| Polarization | | vertical | |
| Impedance | Ω | 50 | |
| Pattern | | Omni or Offset, Adjustable | |
| Horizontal beamwidth (typ) | degrees | 0 | *2 |
| Vertical beamwidth (typ) | degrees | 16 | |
| Average Power Input (max) | W | 300 | |
| Lightning protection | | DC ground | |

Notes

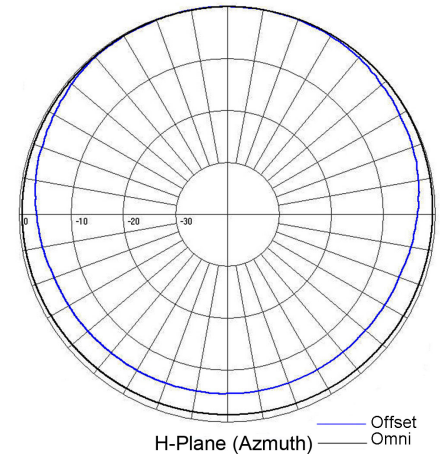
- *1 : 6 dBd for Omni, 9 dBd for Offset configuration.
- *2 : 170 degrees when in Offset configuration.
- *3 : Qty 2
- *4 : For Omni pattern, bottom mount. For offset, side mount.

Mechanical Specifications

| | | | |
|------------------------------------|----------|--------------------------|----|
| Width | in (mm) | 14 (356) | |
| Depth | in (mm) | 4.5 (114) | |
| Length/ Height | in (mm) | 216 (5486) | |
| 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) | 35 (15.89) | |
| Mounting Hardware (Included) | | Clamp130 | *3 |
| Actual shipping weight | lbs (kg) | 55 (24.97) | |
| Shipping dimensions | in (mm) | 120x24x6 (3048x610x152) | |
| Mounting configurations | | Universal mount | *4 |
| Recommended For Offset Side Mount: | | SMK-125-A3 or SMK-125-A7 | |

Environmental Specifications

| | | |
|---|-------------|--------------------------|
| Temperature range | °F (°C) | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent) | ft² (m²) | 3.2 (0.3) |
| Wind Loading Area (1/2" ice) | ft² (m²) | 6.6 (0.61) |
| Rated wind velocity (no ice) | mph (km/h) | 105 (169) |
| Rated wind velocity (1/2" radial ice) | mph (km/h) | 80 (129) |
| Lateral thrust (100 mph No Ice) | lbs (N) | 116 (516) |
| Bending moment (100 mph No Ice) | ft-lbs (Nm) | 539 (727.7) |



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