

**SD222-SF7PASNM** Exposed dipole, 3 dBd omni/ 6 dBd offset, field adjustable, N-Male, 164-174 MHz

Also referred as: SRL222NM\*7

- External harness allows field adjustment for omni-directional or offset coverage
- 3 dBd in omni-directional configuration, 6 dBd in offset configuration
- 10 MHz bandwidth, covering 164-174 MHz

**Recommend SMK-125-A3 or SMK-125-A7 when side mounting. Available from Sinclair separately.**

The SD222 is a broadband gain antenna that is field adjustable to provide an omni-directional or offset coverage pattern.

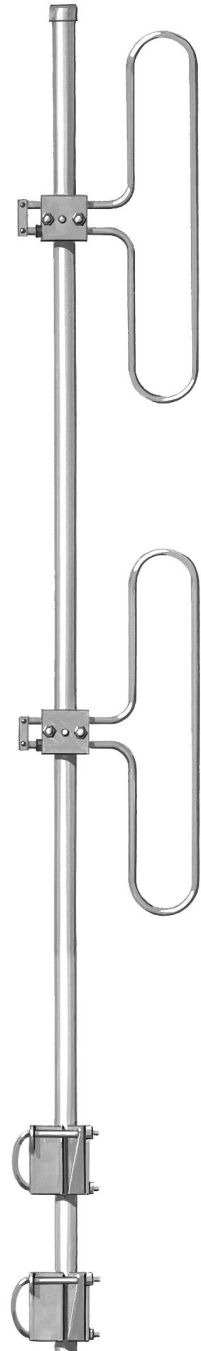
Because external cabling is used, the antenna pattern is easily changed in the field. Field adjustment guidelines are provided.

The SD222 provides 6dBd gain in the offset configuration, and 3dBd gain in the omni-directional configuration.

This antenna covers the 132-174MHz band in 7 band splits. Each band split covers 10MHz.

### Application Notes

- The field adjustable SD222 series is designed for use where either an omni-directional pattern or a higher gain offset pattern may be required.
- The SD222 series covers 132-174 MHz in 11 band splits: 132-142 MHz (F1), 137-147 MHz (F2), 142-152 MHz (F3), 147-157 MHz (F4), 152-162 MHz (F5), 158-168 MHz (F6), 163-174 MHz (F7), 150-160 MHz (F8), 160-170 MHz (F9), 215-225 MHz (F10), 139-149 MHz (F11).



Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

#### Electrical Specifications

Frequency Range	MHz	164 to 174
Bandwidth	MHz	10
Connector		N-Male
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni or Offset, Adjustable
Horizontal beamwidth (typ)	degrees	0
Vertical beamwidth (typ)	degrees	34
Average Input Power (max)	W	300
Lightning protection		DC ground

#### Notes

- \*1 : 170 degrees when in Offset configuration.
- \*2 : Qty 2 included
- \*3 : For Omni pattern, bottom mount. For offset, side mount.

#### Mechanical Specifications

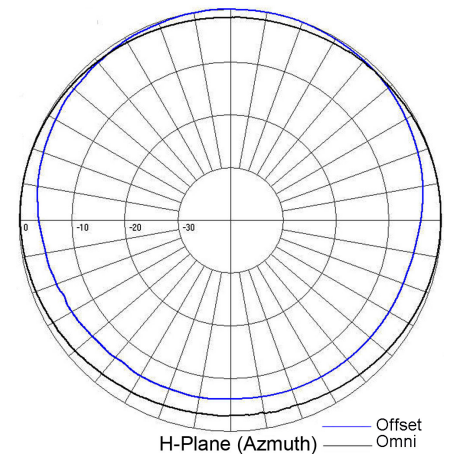
Width	in (mm)	12 (305)
Length/ Height	in (mm)	114 (2896)
Base pipe diameter	in (mm)	1.5 (38)
Base pipe mounting length	in (mm)	15 (381)
Radiating element material		aluminum
Base pipe material		aluminum
Weight	lbs (kg)	17 (7.72)
Mounting Hardware (Included)		Clamp120
Recommended For Offset Side Mount:		SMK-125-A3 or SMK-125-A7
Mounting configurations		Universal Mount
Actual shipping weight	lbs (kg)	25 (11.35)
Shipping dimensions	in (mm)	117x4x13.5 (2972x102x343)

#### Ordering Information

Mounting hardware included.

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.13 (0.1)
Wind Loading Area (1/2" ice)	ft² (m²)	2.45 (0.23)
Rated wind velocity (no ice)	mph (km/h)	120 (193)
Rated wind velocity (1/2" radial ice)	mph (km/h)	80 (129)
Lateral Thrust (100 mph No Ice)	lbs (N)	65.1 (289.6)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	12.8 (17.3)



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