

**SD222-SF4PASNM** Exposed dipole, 3 dBd omni/ 6 dBd offset, field adjustable, N-Male, 147-157 MHz

Also referred as: SRL222NM\*4

- 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 147-157 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.

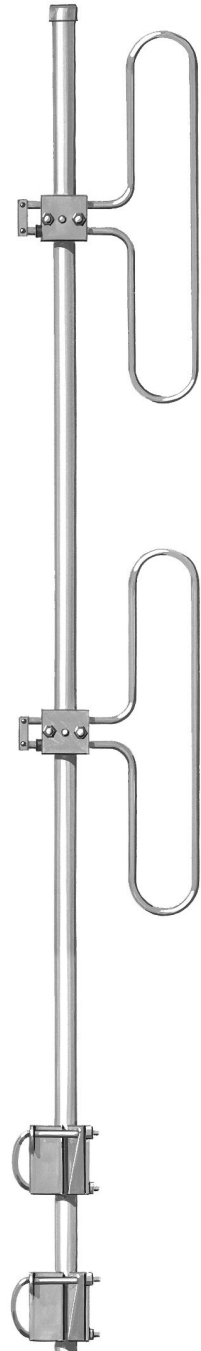
Because external cabling is used, the antenna pattern is easily changed in the field. Field adjustment guidelines are provided.

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	Caribbean and Latin America	Canada and rest of the world
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#### Electrical Specifications

Frequency Range	MHz	147 to 157	
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	*1
Vertical beamwidth (typ)	degrees	34	
Average Power Input (max)	W	300	
Lightning protection		DC ground	

#### Notes

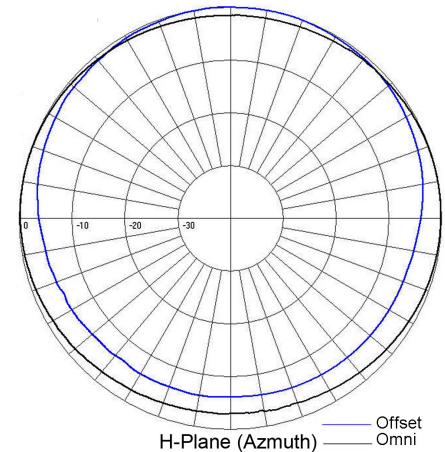
- \*1 : 170 degrees when in Offset configuration.
- \*2 : Qty 2 included
- \*3 : For Omni pattern, bottom mount. For offset, side mount.

#### 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)		Clamp130	*2
Actual shipping weight	lbs (kg)	25 (11.35)	
Shipping dimensions	in (mm)	117x4x13.5 (2972x102x343)	
Mounting configurations		Universal Mount	*3
Recommended For Offset Side Mount:		SMK-125-A3 or SMK-125-A7	

#### 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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