

SD222-SF11PASNM Exposed dipole, 3 dBd omni/ 6 dBd offset, field adjustable, N-Male, 139-149 MHz

- External harness allows field adjustment for omni-directional or offset coverage
- 3 dBd in omni-directional configuration, 6 dBd gain offset configuration
- 10 MHz bandwidth, covering 139-149 MHz

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

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

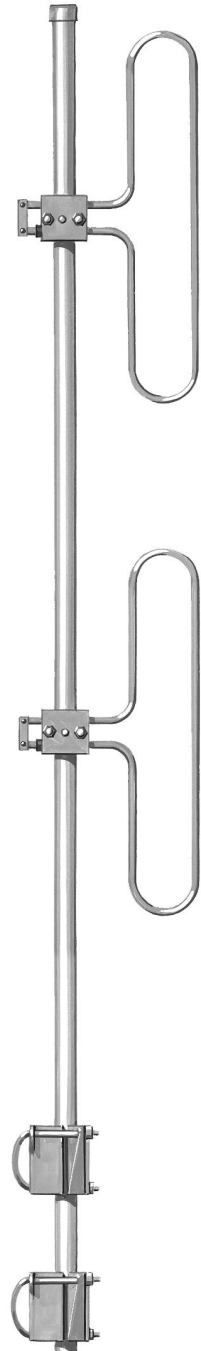
Because external cabling is used, the antenna pattern is easily changed in the field. Field adjustment guidelines are provided.

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

This antenna covers the 132-174 MHz band in 11 band splits. Each band split covers 10 MHz.

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	139 to 149	
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 Input Power (max)	W	300	
Lightning protection		DC ground	

Notes

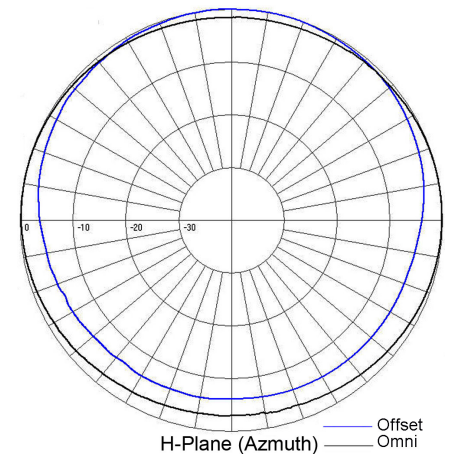
- *1 : 170 degrees when in Offset configuration.
- *2 : Qty 2 included
- *3 : For Omni pattern, bottom mount. For offset, side mount.

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

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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