

SD224-SF6PASNM Exposed dipole, 6 dBd omni/ 9 dBd offset, field adjustable, N-Male, 158-168 MHz

Also referred as: SRL224NM*6

- 6 dBd in omni-directional configuration, 9 dBd in offset configuration
- 10 MHz bandwidth, covering 158-168 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 (F6) covers 158-168MHz.

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.



Electrical Specifications

Frequency Range	MHz	158 to 168	
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	16	
Average Power Input (max)	W	300	
Lightning protection		DC ground	

Mechanical Specifications

Depth	in (mm)	4 (102)	
Length/ Height	in (mm)	216 (5486)	
Width	in (mm)	14 (356)	
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 (Standard)		Clamp130	*2
Actual Shipping weight	lbs (kg)	55 (24.97)	
Shipping dimensions	in (mm)	120x24x6 (3048x610x152)	
Mounting configurations		Universal Mount	*3
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)	ft ² (m ²)	3.2 (0.3)	
Wind Loading Area (1/2" ice)	ft ² (m ²)	6.6 (0.61)	*4
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)	

Notes

- *1 : 170 degrees when in Offset Configuration
- *2 : Qty 2 included
- *3 : For Omni pattern, bottom mount. For offset, side mount.
- *4 : 0.5" radial ice

