

SD224-SF4PASNM

Exposed dipole antenna, 6/9 dBd gain, field adjustable, 147-157 MHz

(SRL224NM*4)

- External harness allows field adjustment for omnidirectional or offset coverage
- 6 dBd in omnidirectional configuration, 9 dBd in offset configuration
- 10 MHz bandwidth, covering 147-157MHz

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 (F4) covers 147-157MHz.



Application Notes

- The field adjustable SD224 series is designed for use where either an omnidirectional pattern or a higher gain offset pattern may be required. Field adjustment is enabled by an external harness, so this antenna may not be suited for extreme wind and ice conditions. Instead, use the SC229 or SC281 omnidirectional antenna, or the SD214 fixed-dipole antenna.
- Field adjustable antennas are not generally recommended for applications where PIM is a consideration. Instead, use the SC229 or SC281 series low-PIM omnidirectional antennas, or the SD214 series low-PIM dipole antenna.
- The SD224 series covers 132-174 MHz in 7 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). 128-138 MHz available as Special Assembly (F9).
- 2 x #130 clamps and mounting instructions are included.

www.sinctech.com

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Electrical Specifications

Bandwidth	MHz	10
Frequency range	MHz	147 to 157
Pattern		omnidirectional/offset
Input VSWR (max)		1.5:1
Polarization		vertical
Horizontal beamwidth	degrees	170
Vertical beamwidth	degrees	16
Lightning protection		DC ground

Notes

- *1 : 0 degrees in the omnidirectional pattern
- *2 : mounting hardware included
- *3 : flat plate equivalent
- *4 : flat plate equivalent
- *5 : at 100mph wind, no ice
- *6 : at 100mph wind, no ice
- *7 : at 100mph wind, no ice

*1

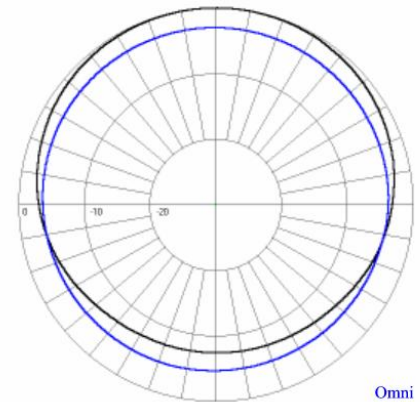
Ordering Information

#130 clamps are provided.

Mechanical Specifications

Height	in (mm)	216 (5486)
Depth	in (mm)	4 (102)
Width	in (mm)	14 (356)
Connector		N (male)
Weight	lbs (kg)	35 (15.9)
Base pipe diameter	in (mm)	1.5 (38)
Base pipe mounting length	in (mm)	26 (660)
Mounting hardware		#130 clamp
Shipping dimensions		216x18x6 in
Shipping weight	lbs (kg)	55 (25)

*2



Azimuth

Omni
Offset

Environmental Specifications

Rated wind velocity (no ice)	mph (km/h)	105 (169)
Rated wind velocity (1/2" radial ice)	mph (km/h)	75 (121)
Rated radial ice	in (mm)	0.5 (13)
Projected area (no ice)	ft ² (m ²)	2.6 (2.4)
Projected area (ice)	ft ² (m ²)	5.1 (4.7)
Lateral thrust (100mph)	lbs (N)	116 (516)
Torsional moment	ft-lbs (Nm)	13 (17.6)
Bending moment	ft-lbs (Nm)	625 (843.8)

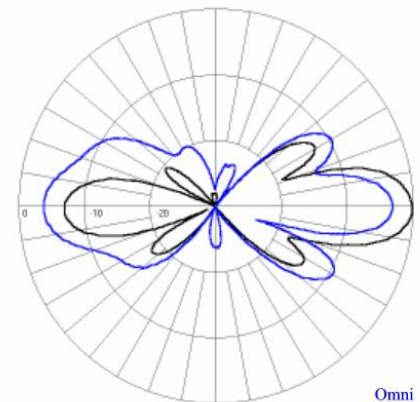
*3

*4

*5

*6

*7



Elevation

Omni
Offset