

SC224-SFXSNF(D00-FXXXX) Collinear Omni, 4.5 dBd, 8 MHz B.W., Straight radome, 134-174 MHz

- Rugged fiberglass radome
- Designed to withstand severe environmental conditions
- High gain, omni-directional, 8 MHz bandwidth with VSWR of 1.5:1

The SC224 series of antennas have been specifically designed for VHF applications requiring high performance, wideband and exceptional electrical and mechanical specifications. This series of omni-directional antennas are constructed of a rugged fiberglass radome which allows them to withstand severe environmental conditions.

This antenna's default tilt configuration is 0 degree. However, 2, 4, or 6 degrees of electrical down are available upon request.

Frequency must be specified at time of order and complete part number will be provided accordingly.



Antenna may not appear exactly the same as image.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

Electrical Specifications

Frequency Range	MHz	134 to 174	
Bandwidth	MHz	8	
Connector		N-Female	*1
Gain (nominal)	dBd (dBi)	4.5 (6.6)	*2
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni- directional	
Vertical beamwidth (typ)	degrees	25	*3
Average Input Power (max)	W	500	
Grounding		All metal parts DC-grounded	
Main Beam Electrical Tilt (Downtilt)	degrees	0	

Mechanical Specifications

Width	in (mm)	2.88 (73)	
Depth	in (mm)	2.88 (73)	
Length/ Height	in (mm)	196 (4978)	*4
Base pipe diameter	in (mm)	2.88 (73)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	29 (13.17)	*5
Weight iced (1/2" ice)	lbs (kg)	60 (27.24)	
Mounting Hardware (Optional)		Clamp005X	*6
Mounting configurations		upright	
Actual shipping weight	lbs (kg)	56 (25.42)	
Shipping dimensions	in (mm)	225x6x6 (5715x152x152)	

Environmental Specifications

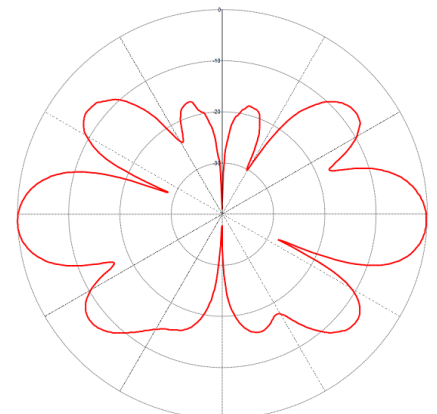
Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft ² (m ²)	2.2 (0.2)
Wind Loading Area (1/2" ice)	ft ² (m ²)	3 (0.28)
Rated wind velocity (no ice)	mph (km/h)	160 (258)
Rated wind velocity (1/2" radial ice)	mph (km/h)	125 (201)
Lateral Thrust (100 mph No Ice)	lbs (N)	83 (369.2)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	530 (715.5)
Tip deflection (100 mph No Ice)	degrees	3

Notes

- *1 : Flange mount
- *2 : ± 1 dB
- *3 : $\pm 10\%$
- *4 : maximum, varies with frequency
- *5 : maximum
- *6 : Qty 2

Ordering Information

Specify center of frequency when ordering. Length of antenna varies with frequency.



Vertical - 0° downtilt

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