

SC229

Collinear omni antenna, 6 dBd gain, 138-225 MHz

- Rugged fiberglass radome
- High gain, omni-directional, 6MHz band width with VSWR of 1.5:1
- Designed to withstand severe environmental conditions
- Recommend using an SMK-225-A3 side mounting kit

The SC229 series of antennas have been designed for VHF applications requiring high performance, wide-band and exceptional electrical and mechanical specifications. It is enclosed in fiberglass radome with lightning spike projecting through the top of the radome to protect the antenna from a lightning strike. This series of antenna also utilizes a tapered radome, which results in less wind resistance, decreases the overall weight, and results in lower tip deflection at high wind speeds.

Model	Description	Pattern
SC229-SFXSNF	6 dBd gain, N (female) connector, 138-225 MHz	Omni-directional
SC229-SFXSNM	6 dBd gain, N (male) connector, 138-225 MHz	Omni-directional
SC229-SFXSNM(HP)	6 dBd gain, N(male) connector, High power, 138-225 MHz	Omni-directional
SC229-SFXSNM(HP-F1710)	6 dBd gain, N-male connector, High power, 138-225 MHz	Omni-directional





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Product Specification Sheet		SC229		Dated: 05-02-10

[SC229-SFXSNF](#)

[SC229-SFXSNM](#)

[SC229-SFXSNM\(HP\)](#)

[SC229-SFXSNM\(HP-F1710\)](#)

Electrical Specifications

Frequency Range, MHz	138 to 225	138 to 225	138 to 225	167.5 to 174.5
Gain (nominal), dBd (dBi)	6 (8.1)	6 (8.1)	6 (8.1)	6 (8.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical	vertical
Impedance, Ω	50	50	50	50
Pattern	Omni-directional	Omni-directional	Omni-directional	Omni-directional
Vertical beamwidth, degrees	17	17	17	17
Average Power Input (max), W	300	300	500	500
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	6	6	6	7

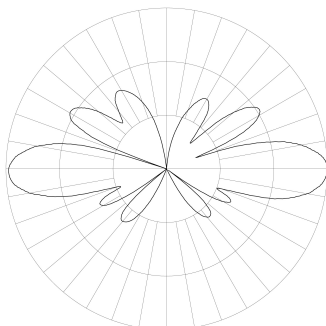
Mechanical Specifications

Connector	N (female)	N (male)	N (male)	N (male)
Width, in (mm)	29.8 (756)	29.8 (756)	2.9 (73)	29.8 (756)
Depth, in (mm)	29.8 (756)	29.8 (756)		29.8 (756)
Base pipe diameter, in (mm)	2.9 (73)	2.9 (73)	2.9 (73)	2.9 (73)
Base pipe mounting length, in (mm)	15 (381)	15 (381)	15 (381)	
Weight, lbs (kg)	32 (14.5)	32 (14.5)	32 (14.5)	29.9 (13.6)
Weight iced, lbs (kg)	73 (33.1)	73 (33.1)	73 (33.1)	65 (29.5)
Actual Shipping weight, lbs (kg)	75 (34.1)	75 (34.1)	75 (34.1)	68 (30.9)
Shipping dimensions, in (mm)	300x4x4 (7620x102x102)	300x4x4 (7620x102x102)	288x4x4 (7315x102x102)	260x4x4 (6604x102x102)
Length, in (mm)	278 (7061)	278 (7061)	278 (7061)	235.8 (5988)
Mounting hardware	#5 clamp	#5 clamp	#5 clamp	#5 clamp

Environmental Specifications

Temperature range, °F (°C)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	2.83 (0.26)	2.83 (0.26)	2.83 (0.26)	2.35 (0.22)

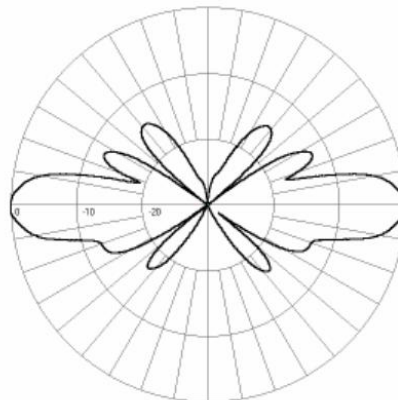
SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SC229-SFXSNF



Elevation

SC229-SFXSNM(HP)

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