

SC229-L - PIM Certified Collinear omni antenna, 6 dBd gain, low PIM, 138-174 MHz

- Designed to withstand severe environmental conditions
- Fiberglass radome with built in lightning protection
- Provides excellent coverage and durability

The SC229-L 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.

The SC229-L is also high-performance low PIM collinear omni's which use industry-leading designs that offer high gain, excellent bandwidth and high reliability.

Model	Description	Pattern
SC229-SFXLDF	6 dBd gain, 7/16 DIN (female) connector, 138-225 MHz	Omni-directional





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Product Specification Sheet		SC229-L - PIM Certified		Dated: 05-02-10

SC229-SFXLDF

Electrical Specifications

Frequency Range, MHz	138 to 225
Gain (nominal), dBd (dBi)	6 (8.1)
Input VSWR (max)	1.5:1
Polarization	vertical
Impedance, Ω	50
Pattern	Omni-directional
Vertical beamwidth, degrees	17
Average Power Input (max), W	300
Passive intermod. (2x20W, 3rd ord.), dBc	-150
Lightning protection	DC ground
Bandwidth, MHz	6

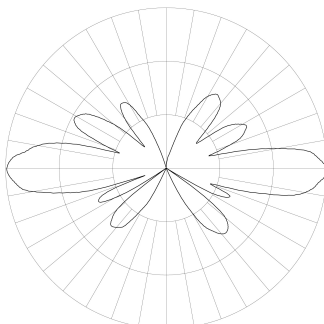
Mechanical Specifications

Connector	7/16 DIN (female)
Width, in (mm)	3 (76)
Base pipe diameter, in (mm)	2.9 (73)
Base pipe mounting length, in (mm)	24 (610)
Weight, lbs (kg)	32 (14.5)
Weight iced, lbs (kg)	73 (33.1)
Actual Shipping weight, lbs (kg)	75 (34.1)
Shipping dimensions, in (mm)	248x4x4 (6299x102x102)
Length, in (mm)	238 (6045)
Mounting hardware	#5 clamp

Environmental Specifications

Temperature range, °F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	2.88 (0.27)

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SC229-SFXLDF

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