

**SC229-SFXLDF**

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

(SC229DFLN)

- Rugged fiberglass radome
- High gain, omnidirectional
- Designed to withstand severe environmental conditions
- Broad band (6 MHz Bandwidth with 1.5:1 VSWR, and wider for 2:1 VSWR)

The SC229-L series of antennas have been specifically designed for VHF applications requiring high performance, strong bandwidth and exceptional electrical and mechanical specifications. This series of omnidirectional antennas are constructed of a rugged fiberglass radome which allows them to withstand severe environmental conditions.

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.



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Region	United States, South & Central America	Europe, Middle East and Africa	Canada and rest of the world
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**Electrical Specifications**

Bandwidth	MHz	6	
Frequency range	MHz	138 to 174	*1
Gain	dBd (dBi)	6 (8.1)	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
Pattern		omnidirectional	
Input VSWR (max)		1.5:1	
Polarization		vertical	
Vertical beamwidth	degrees	17	
Impedance	$\Omega$	50	
Lightning protection		DC ground	

**Notes**

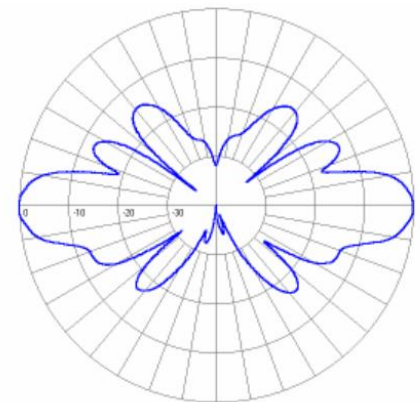
- \*1 : "Fxxxx" option specifies center frequency to nearest 0.5MHz. 220MHz version also available.
- \*2 : may vary with frequency
- \*3 : incl. ground plane reflectors
- \*4 : 100mph, no ice
- \*5 : flat plate equivalent
- \*6 : flat plate equivalent
- \*7 : 100mph, no ice
- \*8 : 100mph, no ice

**Mechanical Specifications**

Length	in (mm)	238 (6045)	*2
Width	in (mm)	3 (76)	*3
Connector		7/16 DIN (female)	
Weight	lbs (kg)	32 (14.5)	
Weight iced	lbs (kg)	73 (33.1)	
Base pipe diameter	in (mm)	2.9 (73)	
Mounting hardware		#5 clamp	
Shipping dimensions		248x4x4 in	
Shipping weight	lbs (kg)	75 (34.1)	

**Ordering Information**

Specify centre frequency band of operation.  
Gain and vertical beamwidth will change with downtilt option.



Elevation

**Environmental Specifications**

Survival wind velocity (no ice)	mph (km/h)	195 (314)	
Survival wind velocity (1/2" radial ice)	mph (km/h)	161 (259)	
Rated wind velocity (no ice)	mph (km/h)	150 (242)	
Rated wind velocity (1/2" radial ice)	mph (km/h)	115 (185)	
Tip deflection	degrees	6	*4
Rated radial ice	in (mm)	0.5 (13)	
Projected area (no ice)	ft <sup>2</sup> (m <sup>2</sup> )	2.9 (2.7)	*5
Projected area (ice)	ft <sup>2</sup> (m <sup>2</sup> )	5.4 (5)	*6
Lateral thrust (100mph)	lbs (N)	110 (489.3)	*7
Bending moment	ft-lbs (Nm)	950 (1282.5)	*8
Temperature range	°F (°C)	-40 to +140 (-40 to +60)	

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