

SC229-SFXSNM(DXX-FXXXX) Collinear omni, 6 dBd, 6 MHz B.W., N-Male connector, 138-225 MHz

Also referred as: SRL229NM-xxxx

- Rugged fiberglass radome
- High gain, omni-directional, 6 MHz band width with VSWR of 1.5:1
- Designed to withstand severe environmental conditions
- Recommend the SMK-225-A3 or SMK-225-A7 kit when side mounting.

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The SC229 series of antennas have been specifically designed for VHF applications requiring high performance, wideband bandwidth 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. 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.



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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Electrical Specifications

Frequency Range	MHz	138 to 225	*1
Bandwidth	MHz	6	
Connector		N-Male	
Gain (nominal)	dBd (dBi)	6 (8.1)	
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni-directional	
Vertical beamwidth (typ)	degrees	17	
Average Power Input (max)	W	300	
Lightning protection		DC ground	
Electrical tilt (available)		0, 2, 4, or 6 degrees	

Mechanical Specifications

Width	in (mm)	2.88 (73)	*2
Length	in (mm)	278 (7061)	*3
Base pipe diameter	in (mm)	2.88 (73)	
Base pipe mounting length	in (mm)	15 (381)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	34 (15.44)	
Weight iced (1/2" ice)	lbs (kg)	75 (34.05)	
Mounting Hardware (Included)		Clamp005	*4
Recommended For Offset Side Mount:		SMK-225-A3 or SMK-225-A7	
Mounting configurations		upright	
Actual shipping weight	lbs (kg)	75 (34.05)	
Shipping dimensions	in (mm)	300x4x4 (7620x102x102)	

Environmental Specifications

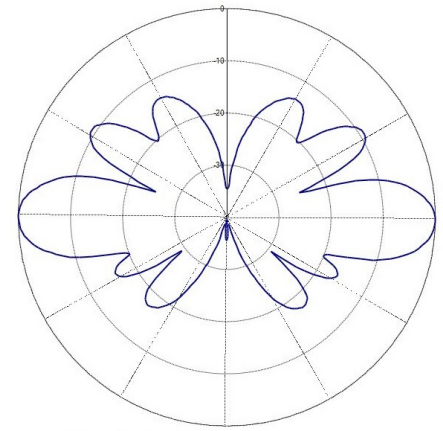
Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	2.83 (0.26)
Wind Loading Area (1/2" ice)	ft² (m²)	5.36 (0.5)
Rated wind velocity (no ice)	mph (km/h)	150 (242)
Rated wind velocity (1/2" radial ice)	mph (km/h)	115 (185)
Lateral Thrust (100 mph No Ice)	lbs (N)	110 (489.3)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	950 (1282.5)
Tip deflection (100 mph No Ice)	degrees	6

Notes

- *1 : "Fxxxx" option specifies center frequency to nearest 0.5MHz.
- *2 : 29.75" (755.65mm) with ground rods.
- *3 : Max, actual length vary with frequency
- *4 : Qty 2

Ordering Information

- Specify center frequency.
- Gain and vertical beamwidth will change with downtilt option.
- Length of antenna will change with frequency.



Vertical, 0° downtilt shown

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