

**SC213 SERIES** Collinear omni, 5 dBi, 137-174 MHz

- Medium gain collinear omni-directional antenna
- Integrated clamp design for ease of installation
- Rugged construction for reliability and long life

The Sinclair SC213 is a rugged collinear omnidirectional antenna designed for reliable operation across the 137–174 MHz VHF band. It delivers 5 dBi gain with excellent bandwidth and consistent pattern performance.

Constructed from high-quality materials and precision-engineered components, the SC213 ensures long service life in demanding field environments. Its lightweight design and low wind-loading profile simplify installation on a wide range of mounting structures.

The antenna is fully DC grounded to protect against static buildup and nearby lightning discharges.

Ordering information:

Model number	Frequency range	Bandwidth	Connector	Length/Note
SC213-SF9SNF	157-170 MHz	13 MHz	N(F)	3.10m
SC213-SF11SNF	150-164 MHz	14 MHz	N(F)	3.25m
SC213-SF7SNF	146-159 MHz	13 MHz	N(F)	3.25m
SC213-SF6SNF	161-174 MHz	13 MHz	N(F)	See note 1
SC213-SF3SNF	137-148 MHz	11 MHz	N(F)	See note 1

Note 1: Available in Q2 2026, please call for details.



Antenna may not appear exactly as shown

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Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specification Sheet		SC213 SERIES	Issue: 10	Dated: 04-11-25
EPR				Dated: 04-11-25
Customer Tech Manual				

**Electrical Specifications**

Frequency Range	MHz	137 to 174	*1
Connector		N-Female	
Gain (nominal)	dBd (dBi)	3 (5.1)	*2
Input VSWR (typ)		1.5:1	*3
Polarization		vertical	
Impedance	$\Omega$	50	
Pattern		Omni-directional	
Vertical beamwidth (typ)	degrees	30	*4
Average Input Power (max)	W	250	
DC Ground		Yes	
Main Beam Electrical Tilt (Downtilt)	degrees	0	

**Notes**

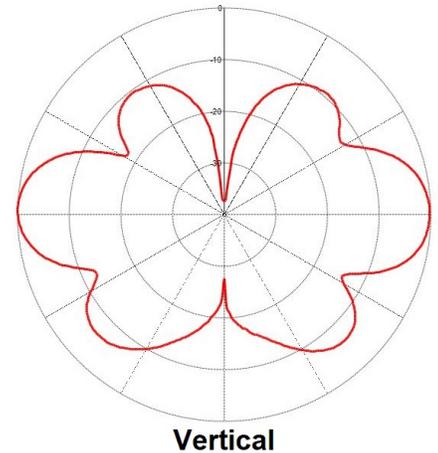
- \*1 : See previous page for specifics.
- \*2 :  $\pm 1$ dB
- \*3 : Input VSWR (max): 1.65:1
- \*4 :  $\pm 10\%$
- \*5 : For masts of 1.26 to 2.36 inch (32 to 60 mm) OD.

**Mechanical Specifications**

Width	in (mm)	3.5 (89)	
Depth	in (mm)	1.9 (48)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	7 (3.18)	
Mounting Hardware (Included)		2 x U-bolt & Nut	*5
Mounting configurations		upright	
Estimated Shipping Weight	lbs (kg)	28 (12.71)	
Shipping dimensions	in (mm)	150x5x5 (3810x127x127)	

**Environmental Specifications**

Temperature range	$^{\circ}$ F ( $^{\circ}$ C)	-49 to +140 (-45 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft <sup>2</sup> (m <sup>2</sup> )	0.7 (0.07)
Survival wind velocity (no ice)	mph (km/h)	149 (240)
Tip deflection (100 mph No Ice)	degrees	12



**Vertical**

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