

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

- Medium gain collinear omni-directional antenna with 10 - 13 MHz bandwidth
- Integrated clamp design for ease of installation
- Rugged construction for reliability and long life

Sinclair's SC213 collinear omnidirectional antenna offers 5 dBi gain in 10 -13 MHz bandwidth covering the 137-174 MHz VHF frequency range. The high-quality components and the carefully engineered structure mean this antenna can last for years in the field. Its relatively low mass and small wind-loading profile make it easy to install. The antenna is fully DC grounded for protection against lightning and static conditions.

When ordering, please refer to the chart below for the model number.

Model number	Frequency range	Bandwidth	Connector	Length*
SC213-SF6SNF	163-174 MHz	11 MHz	N(F)	3.40m
SC213-SF9SNF	157-170 MHz	13 MHz	N(F)	3.55m
SC213-SF8SNF	151-164 MHz	13 MHz	N(F)	3.50m
SC213-SF11SNF	150-163 MHz	13 MHz	N(F)	3.56m
SC213-SF7SNF	146-159 MHz	13 MHz	N(F)	3.78m
SC213-SF4SNF	142-154 MHz	12 MHz	N(F)	3.35m
SC213-SF3SNF	137-148 MHz	11 MHz	N(F)	3.50m

Hardened versions for marine applications are also available, please contact your Sinclair Sales Representative for more information.

Note:

* Nominal, connector excluded.



Antenna may not appear exactly as shown

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

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	Ω	50	
Pattern		Omni- directional	
Vertical beamwidth (typ)	degrees	30	*4
Average Input Power (max)	W	250	
Grounding		All metal parts DC-grounded	
Main Beam Electrical Tilt (Downtilt)	degrees	0	

Notes

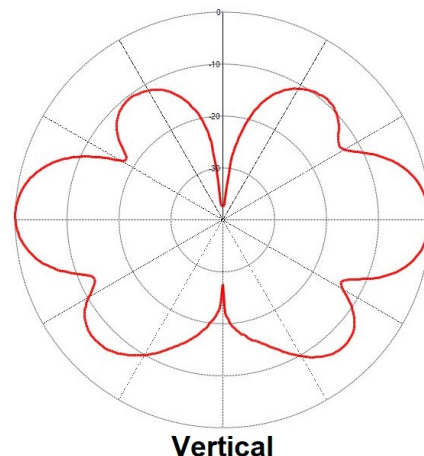
- *1 : See previous page for specifics.
 *2 : ± 0.5 dB
 *3 : Input VSWR (max): 1.65:1
 *4 : $\pm 10\%$
 *5 : Max. See previous page for details.
 *6 : For masts of 1.26 to 2.36 inch (32 to 60 mm) OD.

Mechanical Specifications

Width	in (mm)	3.5 (89)	
Depth	in (mm)	1.9 (48)	
Length/ Height	in (mm)	148.8 (3780)	*5
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	7 (3.18)	
Mounting Hardware (Included)		2 x U-bolt & Nut	*6
Mounting configurations		upright	
Estimated Shipping Weight	lbs (kg)	28 (12.71)	
Shipping dimensions	in (mm)	150x5x5 (3810x127x127)	

Environmental Specifications

Temperature range	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	-49 to +140 (-45 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft^2 (m^2)	0.7 (0.07)
Survival wind velocity (no ice)	mph (km/h)	149 (240)



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E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SC213 SERIES	Issue: 8	Dated: 22-03-24
EPR				Dated: 22-03-24
Customer Tech Manual				