

SC233

Collinear omni antenna, 3 dBd gain, 138-174 MHz

- Low cost antenna
- Designed to withstand harsh environments
- Excellent horizontal coverage

The SC233 series of antennas are a lightweight, 3 dBd collinear antenna constructed of high strength fiberglass radome with an aluminum coaxial skirt and base pipe. The combined features of light weight, medium gain, and low cost make this antenna a natural choice for moderate base station antenna requirements. Mounting clamps are provided for parallel mounting to a minimum 1.9 inch diameter support pipe.

Model	Description	Pattern
SC233-SFXSNM	3 dBd gain, N (male) connector, 138-174 MHz	Omni-directional
SC233M-SFXSUM	3 dBd gain, UHF (male) connector, 156-162.5 MHz	Omni-directional



www.sinctech.com



Australian Representatives
ROJONE, PTY LTD.
Tel: 02 9829 1555
E: sales@rojone.com.au
www.rojone.com.au

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1223 42 03 03	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		SC233		Dated: 05-02-10

SC233-SFXSNM

SC233M-SFXSUM

Electrical Specifications

Frequency Range, MHz	138 to 174	156 to 162.5
Gain (nominal), dBd (dBi)	3 (5.1)	3 (5.1)
Input VSWR (max)	1.5:1	2.5:1
Polarization	vertical	vertical
Impedance, Ω	50	50
Pattern	Omni-directional	Omni-directional
Vertical beamwidth, degrees	35	35
Average Power Input (max), W	100	
Lightning protection	DC ground	DC ground
Bandwidth, MHz	2	6.5

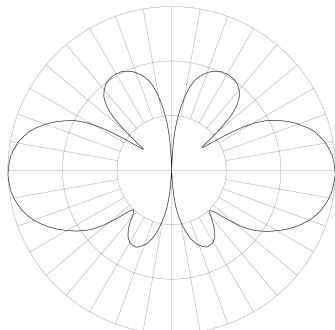
Mechanical Specifications

Connector	N (male)	UHF (male)
Width, in (mm)	1.5 (38)	1.5 (38)
Depth, in (mm)	1.5 (38)	1.5 (38)
Base pipe diameter, in (mm)	0.9 (22)	0.9 (22)
Base pipe mounting length, in (mm)	14 (356)	14 (356)
Weight, lbs (kg)	3.5 (1.6)	3.3 (1.5)
Weight iced, lbs (kg)	15 (6.8)	13 (5.9)
Actual Shipping weight, lbs (kg)	25 (11.4)	20 (9.1)
Shipping dimensions, in (mm)	157x4x4 (3988x102x102)	157x4x4 (3988x102x102)
Length, in (mm)	145 (3683)	118 (2997)
Mounting hardware	#135B clamp	#135B clamp

Environmental Specifications

Temperature range, °F (°C)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	0.61 (0.06)	0.55 (0.05)

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SC233-SFXSNM

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1223 42 03 03	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		SC233		Dated: 05-02-10