

SC225M-H

Collinear omni antenna, 0 dBd gain, HD, 130-174 MHz

- Collinear Omni antenna
- Heavy-duty fiberglass radome
- Light weight

The SC225M-H series of antennas are constructed of high strength fiberglass with aluminum base pipe. The combined features of light weight, unity gain and low cost make this antenna a natural choice for moderate base station antenna requirements.

Model	Description	Pattern
SC225M-HF1SNF	0 dBd gain, N (female) connector, 130-139 MHz	Omni-directional
SC225M-HF2SNF	0 dBd gain, N (female) connector, 138- 148 MHz	Omni-directional
SC225M-HF3SNF	0 dBd gain, N (female) connector, 147-157 MHz	Omni-directional
SC225M-HF4SNF	0 dBd gain, N (female) connector, 156-166 MHz	Omni-directional
SC225M-HF5SNF	0 dBd gain, N (female) connector, 164-174 MHz	Omni-directional



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Product Specification Sheet		SC225M-H		Dated: 05-02-10

SC225M-HF1SNF

SC225M-HF2SNF

SC225M-HF3SNF

SC225M-HF4SNF

Electrical Specifications

Frequency Range, MHz	130 to 139	138 to 148	147 to 157	156 to 166
Gain (nominal), dBd (dBi)	unity (2.1)	unity (2.1)	unity (2.1)	unity (2.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical	vertical
Impedance, Ω	50	50	50	50
Pattern	Omni-directional	Omni-directional	Omni-directional	Omni-directional
Vertical beamwidth, degrees	80	80	80	80
Average Power Input (max), W	250	250	250	250
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	9	10	10	10
Electrical tilt (available)	0 degrees	0 degrees	0 degrees	0 degrees

Mechanical Specifications

Connector	N (female)	N (female)	N (female)	N (female)
Width, in (mm)	2.9 (73)	2.9 (73)	2.9 (73)	2.9 (73)
Base pipe diameter, in (mm)	2.9 (73)	2.9 (73)	2.9 (73)	2.9 (73)
Base pipe mounting length, in (mm)	12 (305)	12 (305)	12 (305)	12 (305)
Weight, lbs (kg)	9.5 (4.3)	9.5 (4.3)	9.5 (4.3)	9.5 (4.3)
Weight iced, lbs (kg)	47 (21.3)	47 (21.3)	47 (21.3)	47 (21.3)
Actual Shipping weight, lbs (kg)	18 (8.2)	18 (8.2)	18 (8.2)	18 (8.2)
Shipping dimensions, in (mm)	73x5x6 (1854x127x152)	73x5x6 (1854x127x152)	73x5x6 (1854x127x152)	81x3.5x3.5 (2057x89x89)
Length, in (mm)	69.1 (1755)	69.1 (1755)	69.1 (1755)	69.1 (1755)
Mounting hardware	#5 clamp	#130 clamp	#130 clamp	#130 clamp

Environmental Specifications

Temperature range, °F (°C)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	0.66 (0.06)	0.66 (0.06)	0.66 (0.06)	0.66 (0.06)

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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

SC225M-HF5SNF

Electrical Specifications

Frequency Range, MHz	164 to 174
Gain (nominal), dBd (dBi)	unity (2.1)
Input VSWR (max)	1.5:1
Polarization	vertical
Impedance, Ω	50
Pattern	Omni-directional
Vertical beamwidth, degrees	80
Average Power Input (max), W	250
Lightning protection	DC ground
Bandwidth, MHz	10
Electrical tilt (available)	0 degrees

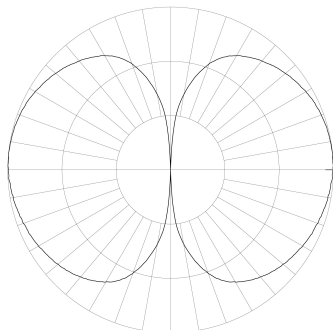
Mechanical Specifications

Connector	N (female)
Width, in (mm)	2.9 (73)
Base pipe diameter, in (mm)	2.9 (73)
Base pipe mounting length, in (mm)	12 (305)
Weight, lbs (kg)	9.5 (4.3)
Weight iced, lbs (kg)	
Actual Shipping weight, lbs (kg)	18 (8.2)
Shipping dimensions, in (mm)	73x5x6 (1854x127x152)
Length, in (mm)	69.1 (1755)
Mounting hardware	#130 clamp

Environmental Specifications

Temperature range, °F (°C)	-40 to +158 (-40 to +70)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	0.66 (0.06)

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SC225M-HF1SNF

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