

## SC323-H

Collinear omni antenna, 3 dBd gain, HD, 311-512 MHz

- Rugged collinear omni designed for reliable operations in extreme conditions
- Efficient, easy to install and durable
- No ground radials

The SC323-H series is a heavy duty collinear omni-directional antenna offers 3 dBd gain in 20 MHz band splits covering 450-470 MHz (F2 sub-band), 490-512 MHz (F4 sub-band), 311-321 MHz (F5 sub-band), 335-345 MHz (F6 sub-band), 380-400 MHz (T1 sub-band) and 410-430 MHz (T2 sub-band), . This antenna can be used for both transmit and receive and is well suited to TETRA applications.

The antenna is designed for a high degree of operational reliability in extreme wind, ice and corrosive conditions. The antenna is DC grounded for protection against lightning and static conditions.

The SC323 comes with an N-male connector on a generous feeder cable. N-female is also available.

Model	Description	Pattern
<a href="#">SC323-HF2SNM(D00-G3)</a>	3 dBd gain, Ground rods free, 450-470 MHz	Omni-directional
<a href="#">SC323-HT1SNM(D00-G3)</a>	3 dBd gain, N (male) connector, 380-400 MHz	Omni-directional



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Product Specification Sheet		SC323-H		Dated: 05-02-10

SC323-HF2SNM(D00-G3)

SC323-HT1SNM(D00-G3)

**Electrical Specifications**

Frequency Range, MHz	450 to 470	380 to 400
Gain (nominal), dBd (dBi)	3 (5.1)	3 (5.1)
Input VSWR (max)	1.4:1	1.4:1
Polarization	vertical	vertical
Impedance, $\Omega$	50	50
Pattern	Omni-directional	Omni-directional
Vertical beamwidth, degrees	28	28
Average Power Input (max), W	500	500
Lightning protection	DC ground	DC ground
Bandwidth, MHz	20	20
Electrical tilt (available)	0,3,6 downtilt	0

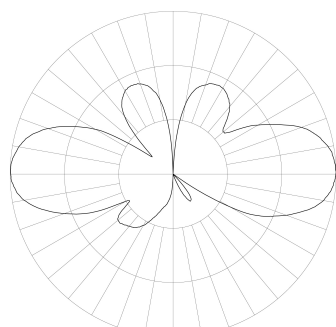
**Mechanical Specifications**

Connector	N (male)	N (male)
Width, in (mm)	2 (51)	2 (51)
Depth, in (mm)	2 (51)	2 (51)
Base pipe diameter, in (mm)	2 (51)	2 (51)
Base pipe mounting length, in (mm)	12 (305)	12 (305)
Weight, lbs (kg)	6.2 (2.8)	6 (2.7)
Weight iced, lbs (kg)	15 (6.8)	16 (7.3)
Actual Shipping weight, lbs (kg)	35 (15.9)	
Shipping dimensions, in (mm)	114x4x4 (2896x102x102)	102x3.5x3.5 (2591x89x89)
Length, in (mm)	67.6 (1718)	76 (1930)
Number of ports	1	
Mounting hardware	Clamp #130D	Clamp #130D
Radome Colour	Blue	Blue

**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 <sup>2</sup> (m <sup>2</sup> )	0.6 (0.06)	0.66 (0.06)

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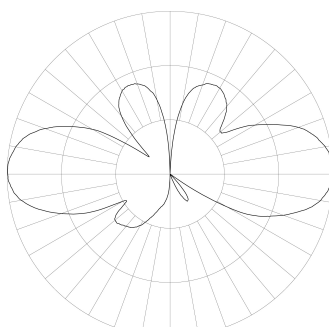


MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

SC323-HF2SNM(D00-G3)

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SC323-HT1SNM(D00-G3)

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