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SC329-H

Collinear omni antenna, 6 dBd gain, 380-480 MHz

- Rugged collinear omni designed for reliable operations
- No ground radials
- Available with N (female) connector

The SC329-H series is a broadband collinear omni-directional antenna which offers 6 dBd gain in 20 MHz band splits ranging from 380-480 MHz.

The antenna is designed for a high degree of operational reliability in extreme wind, ice and corrosive conditions, but its relatively low mass and small wind-loading profile makes it easy to install. The antenna is DC grounded for protection against lightning and static conditions.

The antenna is available in 0,3 and 6 degree electrical downtilts.

Model	Description	Pattern
SC329-HF1SNM(D00-G6)	6 dBd gain, N (male) connector, HD, 406-420 MHz	Omni-directional
SC329-HF2SNM(G6)	6 dBd gain, Ground rods free, 450-470 MHz	Omni-directional
SC329-HF3SNM(D00-G6)	6 dBd gain, N (male) connector, 470-490 MHz	Omni-directional
SC329-HF5SNM(D00-G6)	6 dBd gain, N (male) connector, 430-450 MHz	Omni-directional
SC329-HT1SNM(D00-G6)	6 dBd, 380-400 MHz	Omni-directional
SC329-HT2SNM(G6)	Ground rods free, 410-430 MHz	Omni-directional



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Product Specification Sheet		SC329-H		Dated: 05-02-10

[SC329-HF1SNM\(D00-G6\)](#)

[SC329-HF2SNM\(G6\)](#)

[SC329-HF3SNM\(D00-G6\)](#)

[SC329-HF5SNM\(D00-G6\)](#)

Electrical Specifications

	SC329-HF1SNM(D00-G6)	SC329-HF2SNM(G6)	SC329-HF3SNM(D00-G6)	SC329-HF5SNM(D00-G6)
Frequency Range, MHz	406 to 420	450 to 470	470 to 490	430 to 450
Gain (nominal), dBd (dBi)	6 (8.1)	6 (8.1)	6 (8.1)	6 (8.1)
Input VSWR (max)	1.5:1	1.5:1	1.4:1	1.4:1
Polarization	vertical	vertical	vertical	vertical
Impedance, Ω	50	50	50	50
Pattern	Omni-directional	Omni-directional	Omni-directional	Omni-directional
Vertical beamwidth, degrees	12	12	12	12
Average Power Input (max), W	300	500	500	500
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	14	20	20	20
Electrical tilt (available)	0,3,6	0,3,6	0,3,6	0,3,6

Mechanical Specifications

	SC329-HF1SNM(D00-G6)	SC329-HF2SNM(G6)	SC329-HF3SNM(D00-G6)	SC329-HF5SNM(D00-G6)
Connector	N (male)	N (male)	N (male)	N (male)
Width, in (mm)	2 (51)	2 (51)	2 (51)	2 (51)
Depth, in (mm)	2 (51)	2 (51)	2 (51)	2 (51)
Base pipe diameter, in (mm)	2 (51)	2 (51)	2 (51)	2 (51)
Base pipe mounting length, in (mm)	12 (305)	12 (305)	12 (305)	12 (305)
Weight, lbs (kg)	10.4 (4.7)	8.9 (4)	12 (5.4)	12 (5.4)
Weight iced, lbs (kg)	27.1 (12.3)	25.5 (11.6)	27 (12.3)	27 (12.3)
Actual Shipping weight, lbs (kg)		20 (9.1)		
Shipping dimensions, in (mm)	162x4x4 (4115x102x102)	156x3.8x3.8 (3962x95x95)	132x4x4 (3353x102x102)	162x4x4 (4115x102x102)
Length, in (mm)	133.2 (3383)	128.5 (3264)	114 (2896)	138.5 (3518)
Mounting hardware	Clamp #130D	#130 clamp	#130 clamp	Clamp #130D
Radome Colour	Blue	Blue	Blue	Blue

Environmental Specifications

	SC329-HF1SNM(D00-G6)	SC329-HF2SNM(G6)	SC329-HF3SNM(D00-G6)	SC329-HF5SNM(D00-G6)
Temperature range, °F (°C)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent), ft² (m²)	1.15 (0.11)	1.07 (0.1)	1.18 (0.11)	1.18 (0.11)

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[SC329-HT1SNM\(D00-G6\)](#)

[SC329-HT2SNM\(G6\)](#)

Electrical Specifications

Frequency Range, MHz	380 to 400	410 to 430
Gain (nominal), dBd (dBi)	6 (8.1)	6 (8.1)
Input VSWR (max)	1.5:1	1.5:1
Polarization	vertical	vertical
Impedance, Ω	50	50
Pattern	Omni-directional	Omni-directional
Vertical beamwidth, degrees	12	12
Average Power Input (max), W	500	500
Lightning protection	DC ground	DC ground
Bandwidth, MHz	20	20
Electrical tilt (available)	0,3,6	3

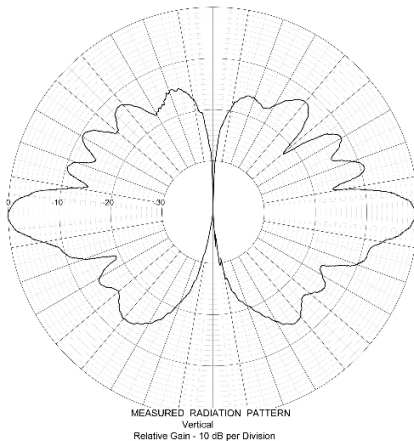
Mechanical Specifications

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)	12 (5.4)	10.2 (4.6)
Weight iced, lbs (kg)	27 (12.3)	25.9 (11.8)
Actual Shipping weight, lbs (kg)	25 (11.4)	21 (9.5)
Shipping dimensions, in (mm)	156x3.5x3.5 (3962x89x89)	156x4x4 (3962x102x102)
Length, in (mm)	138.5 (3518)	126.8 (3221)
Mounting hardware	Clamp #130D	#130 clamp
Radome Colour	Blue	Blue

Environmental Specifications

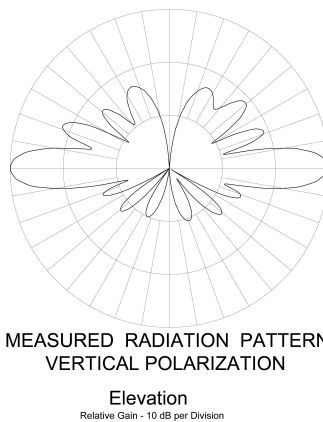
Temperature range, °F (°C)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	1.18 (0.11)	1.09 (0.1)

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SC329-HF1SNM(D00-G6)

SINCLAIR TECHNOLOGIES



SC329-HT2SNM(G6)

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