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## SC320

Collinear omni antenna, 10 dBd gain, 406-480 MHz

- Wide band, high gain, omni-directional antenna of rugged construction
- DC grounded for lightning protection
- Tapered radome used to reduce wind loading
- Recommend using the SMK-225-A3 side mounting kit.

The SC320 is a wideband, high gain, omni-directional antenna of rugged construction.

Model	Description	Pattern
<a href="#">SC320-SF1SNM</a>	10 dBd gain, N (male) connector, 406-420 MHz	Omni-directional
<a href="#">SC320-SF2SNF</a>	10 dBd gain, N-female connector, 450-460 MHz	Omni-directional
<a href="#">SC320-SF2SNM</a>	10 dBd gain, N (male) connector, 450-460 MHz	Omni-directional
<a href="#">SC320-SF3SNM</a>	10 dBd gain, N (male) connector, 460-470 MHz	Omni-directional
<a href="#">SC320-SF4SNM</a>	10 dBd gain, N (male) connector, 440-450 MHz	Omni-directional
<a href="#">SC320-SF5SNM</a>	10 dBd gain, N (male) connector, 470-480 MHz	Omni-directional
<a href="#">SC320-SF6SNM</a>	10 dBd gain, N (male) connector, 420-430 MHz	Omni-directional



www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
<b>Telephone</b>	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
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		SC320		Dated: 05-02-10

SC320-SF1SNM

SC320-SF2SNF

SC320-SF2SNM

SC320-SF3SNM

**Electrical Specifications**

Frequency Range, MHz	406 to 420	450 to 460	450 to 460	460 to 470
Gain (nominal), dBd (dBi)	10 (12.1)	10 (12.1)	10 (12.1)	10 (12.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical	vertical
Impedance, $\Omega$	50	50	50	50
Pattern	Omni-directional	Omni-directional	Omni-directional	Omni-directional
Vertical beamwidth, degrees	6	6	6	6
Average Power Input (max), W	250	250	250	250
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	14	10	10	10

**Mechanical Specifications**

Connector	N (male)	N (female)	N (male)	N (male)
Base pipe diameter, in (mm)	2.9 (73)	2.9 (73)	2.9 (73)	2.9 (73)
Base pipe mounting length, in (mm)	40 (1016)	40 (1016)	40 (1016)	40 (1016)
Weight, lbs (kg)	25 (11.4)	25 (11.4)	25 (11.4)	25 (11.4)
Actual Shipping weight, lbs (kg)	85 (38.6)	85 (38.6)	85 (38.6)	85 (38.6)
Shipping dimensions, in (mm)	274x4x4 (6960x102x102)	274x4x4 (6960x102x102)	274x4x4 (6960x102x102)	274x4x4 (6960x102x102)
Length, in (mm)	264 (6706)	264 (6706)	264 (6706)	264 (6706)
Mounting hardware	#5 clamp	#5 clamp	#5 clamp	#5 clamp

**Environmental Specifications**

Temperature range, °F (°C)	-22 to +140 (-30 to +60)	-22 to +140 (-30 to +60)	-22 to +140 (-30 to +60)	-22 to +140 (-30 to +60)
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SC320-SF4SNM

SC320-SF5SNM

SC320-SF6SNM

**Electrical Specifications**

Frequency Range, MHz	440 to 450	470 to 480	420 to 430
Gain (nominal), dBd (dBi)	10 (12.1)	10 (12.1)	10 (12.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical
Impedance, $\Omega$	50	50	50
Pattern	Omni-directional	Omni-directional	Omni-directional
Vertical beamwidth, degrees	6	6	6
Average Power Input (max), W	250	250	250
Lightning protection	DC ground	DC ground	DC ground
Bandwidth, MHz	10	10	10

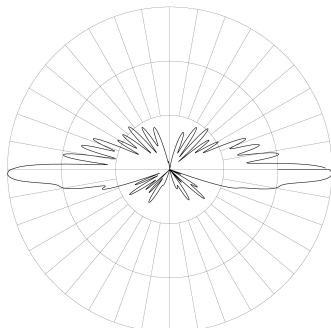
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**Environmental Specifications**

Temperature range, °F (°C)	-22 to +140 (-30 to +60)	-22 to +140 (-30 to +60)	-22 to +140 (-30 to +60)
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SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

SC320-SF1SNM

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