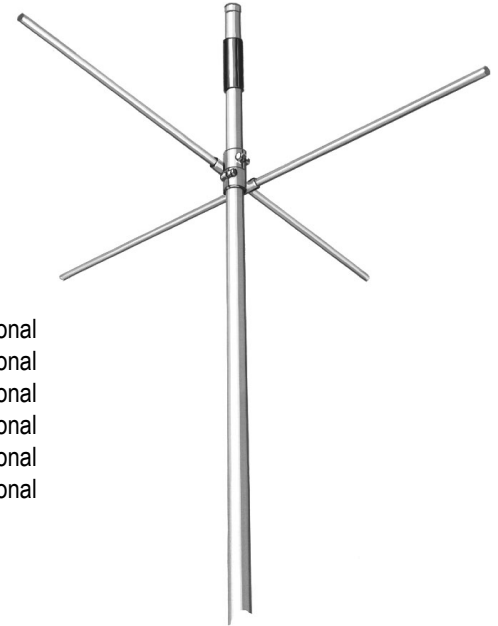


SG201

Ground plane omni antenna, 0 dBd gain, 118-174 MHz

- Wide band omni-directional ground plane antenna with unity gain
- Easily field adjustable
- Aluminum construction throughout

The SG201 is a rugged wide band omni-directional ground plane antenna with unity gain. Aluminum construction is used throughout resulting in a rugged antenna ideal for adverse weather and environmental conditions. The SG201 is easily field adjustable to better than 1.5:1 VSWR at any frequency within operating range. A tuning chart is provided with each antenna. Low band versions available. Contact your Sinclair representative for detailed specifications.



Model	Description	Pattern
SG201-SF1SNF	0 dBd gain, N female connector, 118-138 MHz	Omni-directional
SG201-SF1SNM	0 dBd gain, N male connector, 118-136 MHz	Omni-directional
SG201-SF2SNF	0 dBd gain, N female connector, 130-150 MHz	Omni-directional
SG201-SF2SNM	0 dBd gain, N male connector, 130-150 MHz	Omni-directional
SG201-SF3SNF	0 dBd gain, N female connector, 148-174 MHz	Omni-directional
SG201-SF3SNM	0 dBd gain, N male connector, 148-174 MHz	Omni-directional



Australian Representatives
ROJONE, PTY LTD.
Tel: 02 9829 1555
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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		SG201		Dated: 05-02-10

[SG201-SF1SNF](#)

[SG201-SF1SNM](#)

[SG201-SF2SNF](#)

[SG201-SF2SNM](#)

Electrical Specifications

Frequency Range, MHz	118 to 138	118 to 136	130 to 150	130 to 150
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
Pattern	Omni-directional	Omni-directional	Omni-directional	Omni-directional
Vertical beamwidth, degrees	75	75	75	75
Average Power Input (max), W	250	250	250	250
Lightning protection	DC ground	DC ground	DC ground	DC ground

Mechanical Specifications

Connector	N (female)	N (male)	N (female)	N (male)
Length/ Height, in (mm)	64 (1626)	64 (1626)	64 (1626)	64 (1626)
Width, in (mm)	56 (1422)	56 (1422)	56 (1422)	56 (1422)
Depth, in (mm)	56 (1422)	56 (1422)	56 (1422)	56 (1422)
Base pipe diameter, in (mm)	1.5 (38)	1.5 (38)	1.5 (38)	1.5 (38)
Base pipe mounting length, in (mm)	12 (305)	12 (305)	12 (305)	12 (305)
Weight, lbs (kg)	8 (3.6)	8 (3.6)	8 (3.6)	8 (3.6)
Actual Shipping weight, lbs (kg)	15 (6.8)	15 (6.8)	15 (6.8)	15 (6.8)
Shipping dimensions, in (mm)	73x5x6 (1854x127x152)	73x5x6 (1854x127x152)	73x5x6 (1854x127x152)	73x5x6 (1854x127x152)
Mounting hardware	#135 clamp	#135 clamp	#135 clamp	#135 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)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	1.47 (0.14)	1.47 (0.14)	1.47 (0.14)	1.47 (0.14)
Wind Loading Area (ice), ft ² (m ²)	2.48 (0.23)	2.48 (0.23)	2.48 (0.23)	2.48 (0.23)
Rated wind velocity (no ice), mph (km/h)	130 (209)	130 (209)	130 (209)	130 (209)
Rated wind velocity (1/2" radial ice), mph (km/h)	85 (137)	85 (137)	85 (137)	85 (137)
Lateral thrust (100mph), lbs (N)	24.2 (107.6)	24.2 (107.6)	24.2 (107.6)	24.2 (107.6)
Bending moment, ft-lbs (Nm)	47.7 (64.4)	47.7 (64.4)	47.7 (64.4)	47.7 (64.4)

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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		SG201		Dated: 05-02-10

SG201-SF3SNF

SG201-SF3SNM

Electrical Specifications

Frequency Range, MHz	148 to 174	148 to 174
Gain (nominal), dBd (dBi)	unity (2.1)	unity (2.1)
Input VSWR (max)	1.5:1	1.5:1
Polarization	vertical	vertical
Pattern	Omni-directional	Omni-directional
Vertical beamwidth, degrees	75	75
Average Power Input (max), W	250	250
Lightning protection	DC ground	DC ground

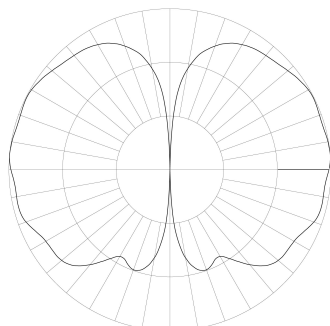
Mechanical Specifications

Connector	N (female)	N (male)
Length/ Height, in (mm)	64 (1626)	64 (1626)
Width, in (mm)	56 (1422)	56 (1422)
Depth, in (mm)	56 (1422)	56 (1422)
Base pipe diameter, in (mm)	1.5 (38)	1.5 (38)
Base pipe mounting length, in (mm)	12 (305)	12 (305)
Weight, lbs (kg)	8 (3.6)	8 (3.6)
Actual Shipping weight, lbs (kg)	15 (6.8)	15 (6.8)
Shipping dimensions, in (mm)	73x5x6 (1854x127x152)	73x5x6 (1854x127x152)
Mounting hardware	#135 clamp	#135 clamp

Environmental Specifications

Temperature range, °F (°C)	-22 to +140 (-30 to +60)	-22 to +140 (-30 to +60)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	1.47 (0.14)	1.47 (0.14)
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Rated wind velocity (1/2" radial ice), mph (km/h)	85 (137)	85 (137)
Lateral thrust (100mph), lbs (N)	24.2 (107.6)	24.2 (107.6)
Bending moment, ft-lbs (Nm)	47.7 (64.4)	47.7 (64.4)

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SG201-SF1SNF

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Product Specification Sheet		SG201		Dated: 05-02-10