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SG238

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

- Broadband omni-directional antenna for ground-to-air applications
- Constructed of selected aluminum alloy and stainless steel
- A heavy-duty version is also available

The SG238 is a broadband omni-directional antenna offering a low VSWR over the 118-174 MHz frequency range. Constructed of selected aluminum alloy and stainless steel, the SG238 is designed to withstand winds of 110 mph while supporting 0.5 inches of radial ice. The antenna DC grounded for lightning protection.

Model	Description	Pattern
SG238-SF1SNM	0 dBd gain, N (male) connector, 118-138 MHz	Omni-directional
SG238-SF2SNM	0 dBd gain, N (male) connector, 136-160 MHz	Omni-directional
SG238-SF3SNM	0 dBd gain, N (male) connector, 150-174 MHz	Omni-directional



www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Product Specification Sheet		SG238		Dated: 05-02-10

[SG238-SF1SNM](#)

[SG238-SF2SNM](#)

[SG238-SF3SNM](#)

Electrical Specifications

Frequency Range, MHz	118 to 138	136 to 160	150 to 174
Gain (nominal), dBd (dBi)	unity (2.1)	unity (2.1)	unity (2.1)
Input VSWR (max)	2:1	2:1	2:1
Polarization	vertical	vertical	vertical
Pattern	Omni-directional	Omni-directional	Omni-directional
Vertical beamwidth, degrees	71	71	71
Average Power Input (max), W	250	250	250
Lightning protection	DC ground	DC ground	DC ground

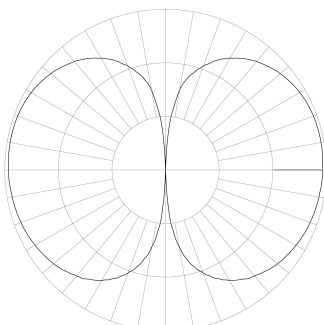
Mechanical Specifications

Connector	N (male)	N (male)	N (male)
Length/ Height, in (mm)	67 (1702)	67 (1702)	67 (1702)
Width, in (mm)	26.5 (673)	26.5 (673)	26.5 (673)
Depth, in (mm)	26.5 (673)	26.5 (673)	26.5 (673)
Base pipe diameter, in (mm)	1.5 (38)	1.5 (38)	1.5 (38)
Base pipe mounting length, in (mm)	15 (381)	15 (381)	15 (381)
Weight, lbs (kg)	11.5 (5.2)	11.5 (5.2)	11.5 (5.2)
Weight iced, lbs (kg)	19.8 (9)	19.8 (9)	19.8 (9)
Shipping dimensions, in (mm)	72x7.2x7.2 (1829x183x183)	72x6x6 (1829x152x152)	72x6x6 (1829x152x152)
Mounting hardware	0.75-2.28" O.D. pipe and 135 Clamp	0.75-2.28" O.D. pipe and 135 Clamp	0.75-2.28" O.D. pipe and 135 Clamp

Environmental Specifications

Temperature range, °F (°C)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	0.57 (0.05)	0.57 (0.05)	0.57 (0.05)
Wind Loading Area (ice), ft ² (m ²)	1.33 (0.12)	1.33 (0.12)	1.33 (0.12)
Rated wind velocity (no ice), mph (km/h)	175 (282)	175 (282)	175 (282)
Rated wind velocity (1/2" radial ice), mph (km/h)	110 (177)	110 (177)	110 (177)
Lateral thrust (100mph), lbs (N)	23 (102.3)	23 (102.3)	23 (102.3)
Bending moment, ft-lbs (Nm)	38 (51.3)	38 (51.3)	38 (51.3)
Tip deflection, degrees	0.5	0.5	0.5

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

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