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**SG238-H**

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

- Broadband omni-directional antenna for ground-to-air applications
- Constructed of selected aluminum alloy and stainless steel
- Heavy duty version

The SG238 is a broadband omni-directional antenna offering a low VSWR over the operating frequency range. Constructed of selected aluminum alloy and stainless steel, the SG238 is designed to withstand winds of 155 mph while supporting 0.5 inches of radial ice. The antenna is at DC ground potential for lightning protection.

Model	Description	Pattern
<a href="#">SG238-HF1SNM</a>	0 dBd gain, N (male) connector, 118-136 MHz	Omni-directional
<a href="#">SG238-HF2SNM</a>	0 dBd gain, N (male) connector, 136-160 MHz	Omni-directional
<a href="#">SG238-HF3SNM</a>	0 dBd gain, N (male) connector, 150-174 MHz	Omni-directional



www.sinctech.com



**Australian Representatives**  
**ROJONE, PTY LTD.**  
Tel: 02 9829 1555  
E: [sales@rojone.com.au](mailto:sales@rojone.com.au)  
[www.rojone.com.au](http://www.rojone.com.au)

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>	<a href="mailto:salesusa@sinctech.com">salesusa@sinctech.com</a>	<a href="mailto:salesuk@sinctech.com">salesuk@sinctech.com</a>	<a href="mailto:salesla@sinctech.com">salesla@sinctech.com</a>	<a href="mailto:salescan@sinctech.com">salescan@sinctech.com</a>
Product Specification Sheet		SG238-H		Dated: 05-02-10

SG238-HF1SNM

SG238-HF2SNM

SG238-HF3SNM

**Electrical Specifications**

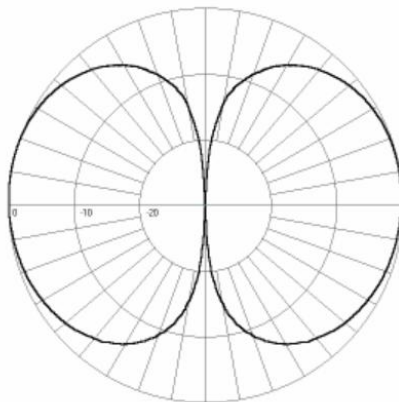
Frequency Range, MHz	118 to 136	136 to 160	150 to 174
Gain (nominal), dBd (dBi)	unity (2.1)	unity (2.1)	unity (2.1)
Input VSWR (max)	2:1	2:1	2:1
Polarization	vertical	vertical	vertical
Impedance, $\Omega$	50	50	50
Pattern	Omni-directional	Omni-directional	Omni-directional
Vertical beamwidth, degrees	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)	1.9 (48)	1.9 (48)	1.9 (48)
Base pipe mounting length, in (mm)	15 (381)	15 (381)	15 (381)
Weight, lbs (kg)	21.2 (9.6)	21.2 (9.6)	21.2 (9.6)
Weight iced, lbs (kg)	30 (13.6)	30 (13.6)	30 (13.6)
Actual Shipping weight, lbs (kg)	28 (12.7)	28 (12.7)	28 (12.7)
Shipping dimensions, in (mm)	72x7.2x7.2 (1829x183x183)	72x7.2x7.2 (1829x183x183)	72x7.2x7.2 (1829x183x183)
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 <sup>2</sup> (m <sup>2</sup> )	0.79 (0.07)	0.79 (0.07)	0.79 (0.07)
Wind Loading Area (ice), ft <sup>2</sup> (m <sup>2</sup> )	1.54 (0.14)	1.54 (0.14)	1.54 (0.14)
Rated wind velocity (no ice), mph (km/h)	220 (354)	220 (354)	220 (354)
Rated wind velocity (1/2" radial ice), mph (km/h)	155 (250)	155 (250)	155 (250)
Lateral thrust (100mph), lbs (N)	31 (137.9)	31 (137.9)	31 (137.9)
Bending moment, ft-lbs (Nm)	51 (68.9)	51 (68.9)	51 (68.9)



Elevation

SG238-HF1SNM

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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com