

**SG238-SF1SNF** Ground plane omni, 0 dBd, 118-138 MHz

- Broadband omnidirectional antenna for ground-to-air applications
- Aluminum alloy and stainless steel construction
- A heavy-duty version is also available

The SG238 is a broadband omnidirectional antenna offering a low VSWR over the 118-138 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 is at DC ground potential for lightning protection.



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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### Electrical Specifications

Frequency Range	MHz	118 to 138
Connector		N-Female
Gain (nominal)	dBd (dBi)	unity (2.1)
VSWR (typ)		1.8:1
Polarization		vertical
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	75
Average Input Power (max)	W	250
Lightning protection		DC ground

### Notes

\*1 : 2:1 max

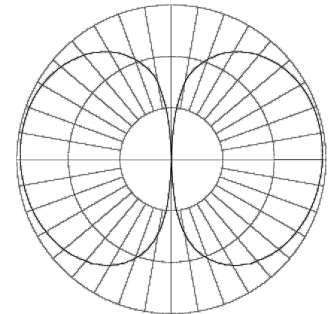
### Mechanical Specifications

Width	in (mm)	26.5 (673)
Depth	in (mm)	26.5 (673)
Length/ Height	in (mm)	67 (1702)
Base pipe diameter	in (mm)	1.5 (38)
Base pipe mounting length	in (mm)	15 (381)
Weight	lbs (kg)	11.5 (5.22)
Weight iced (1/2" ice)	lbs (kg)	19.8 (8.99)
Mounting Hardware (Included)		Clamp135
Shipping dimensions	in (mm)	73x5x6 (1854x127x152)

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.57 (0.05)
Wind Loading Area (1/2" ice)	ft² (m²)	1.33 (0.12)
Rated wind velocity (no ice)	mph (km/h)	175 (282)
Rated wind velocity (1/2" radial ice)	mph (km/h)	110 (177)
Lateral Thrust (100 mph No Ice)	lbs (N)	23 (102.3)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	38 (51.3)
Tip deflection (100 mph No Ice)	degrees	0.54

### SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

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