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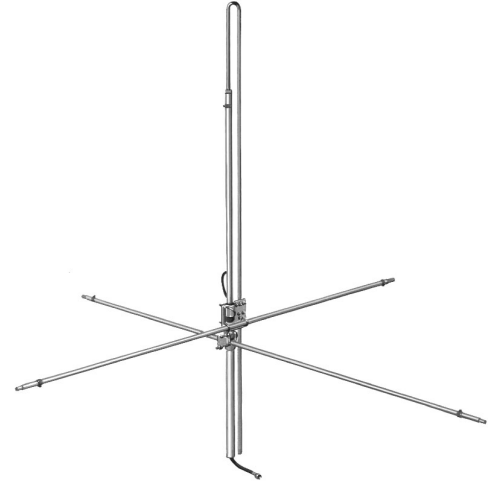
SG101

Ground plane omni antenna, 0 dBd gain, 30-88 MHz

- 3-6.2% bandwidth
- Designed for severe climatic conditions
- Dependable performance

The SG101-SFXPASNM is designed for dependable performance and versatility. It has a relatively wide bandwidth and is field adjustable to any frequency in the 25-40 or 30-50 MHz range. A chart is included with the antenna to facilitate adjustment of the vertical radiator and ground rods for the frequency required. Because of this feature, it is an ideal antenna for leased system service since it can be reused and tuned to resonance at each new system frequency as needed. Low band version (25-40 MHz) is available on request. Please consult your representative for specification.

The SG101-SFXSNM is a rugged ground plan antenna designed for severe climatic conditions. The driven element is at ground potential and ground rods are sand damped to reduce vibration. This extremely rugged antenna has established a record of fine performance under adverse conditions for many years with users who demand performance and dependability.



Model	Description	Pattern
SG101-SFXPASNM	0 dBd gain, Field adjustable, N (male) connector, 30-50 MHz	Omni-directional
SG101-SFXSNM	0 dBd gain, N (male) connector, 30-88 MHz	Omni-directional

www.sinctech.com



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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		SG101		Dated: 05-02-10

SG101-SFXPASNM

SG101-SFXSNM

Electrical Specifications

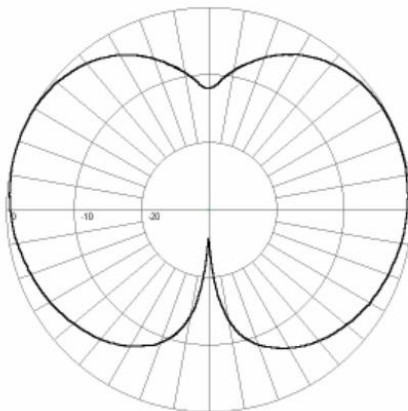
Frequency Range, MHz	30 to 50	30 to 76
Gain (nominal), dBd (dBi)	unity (2.1)	unity (2.1)
Input VSWR (max)	1.5:1	1.5:1
Polarization	vertical	vertical
Pattern	Omni-directional	Omni-directional
Vertical beamwidth, degrees	87	87
Average Power Input (max), W	450	450
Lightning protection	DC ground	DC ground

Mechanical Specifications

Connector	N (male)	N (male)
Length/ Height, in (mm)	115 (2921)	115 (2921)
Width, in (mm)	201 (5105)	201 (5105)
Depth, in (mm)	201 (5105)	201 (5105)
Base pipe diameter, in (mm)	1.9 (48)	1.9 (48)
Base pipe mounting length, in (mm)	36 (914)	36 (914)
Weight, lbs (kg)	15 (6.8)	35 (15.9)
Actual Shipping weight, lbs (kg)	25 (11.4)	25 (11.4)
Shipping dimensions, in (mm)	118x5x15 (2997x127x381)	127x7x15 (3226x178x381)
Length, in (mm)	115 (2921)	115 (2921)
Mounting hardware	#120 clamp	#120 clamp

Environmental Specifications

Temperature range, °F (°C)	-22 to +140 (-30 to +60)	-22 to +140 (-30 to +60)
Wind Loading Area (ice), ft² (m²)	5 (0.46)	5 (0.46)
Rated wind velocity (no ice), mph (km/h)	100 (161)	100 (161)
Rated wind velocity (1/2" radial ice), mph (km/h)	85 (137)	85 (137)
Lateral thrust (100mph), lbs (N)	108 (480.4)	108 (480.4)



Elevation

SG101-SFXPASNM

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