

SG317

Ground plane omni antenna, 2.5 dBd gain, 406-512 MHz

- Tunable omni-directional base station antenna
- Extremely versatile antennas may be field adjusted to resonance within a 20 MHz bandwidth
- Ideal for leased system service

The SG317 series is a tunable, low-cost 2.5 dBd gain omni-directional base station antenna for the 406-512 MHz frequency range. These extremely versatile antennas may be field adjusted to resonance within a 20 MHz bandwidth. A frequency adjustment chart is supplied with each antenna. Ideal for leased system service because of the field adjustment capability.



Model	Description	Pattern
SG317-SF1SNM	2.5 dBd gain, N (male) connector, 406-420 MHz	Omni-directional
SG317-SF2SNM	2.5 dBd gain, N (male) connector, 450-470 MHz	Omni-directional
SG317-SF3SNM	2.5 dBd gain, N (male) connector, 470-490 MHz	Omni-directional
SG317-SF4SNM	2.5 dBd gain, N (male) connector, 430-450 MHz	Omni-directional
SG317-SF5SNM	2.5 dBd gain, N (male) connector, 490-512 MHz	Omni-directional



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Product Specification Sheet		SG317		Dated: 05-02-10

SG317-SF1SNM

SG317-SF2SNM

SG317-SF3SNM

SG317-SF4SNM

Electrical Specifications

Frequency Range, MHz	406 to 420	450 to 470	470 to 490	430 to 450
Gain (nominal), dBd (dBi)	2.5 (4.6)	2.5 (4.6)	2.5 (4.6)	2.5 (4.6)
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
Horizontal beamwidth, degrees	360	360	360	360
Vertical beamwidth, degrees	35	35	35	35
Average Power Input (max), W	100	100	100	100
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	14	20	20	20

Mechanical Specifications

Connector	N (male)	N (male)	N (male)	N (male)
Length/ Height, in (mm)	41.5 (1054)	41.5 (1054)	41.5 (1054)	41.5 (1054)
Width, in (mm)	18.5 (470)	18.5 (470)	18.5 (470)	18.5 (470)
Depth, in (mm)	18.5 (470)	18.5 (470)	18.5 (470)	18.5 (470)
Base pipe diameter, in (mm)	0.8 (19)	0.8 (19)	0.8 (19)	0.8 (19)
Base pipe mounting length, in (mm)	8 (203)	8 (203)	8 (203)	8 (203)
Weight, lbs (kg)	1.5 (0.7)	1.5 (0.7)	1.5 (0.7)	1.5 (0.7)
Weight iced, lbs (kg)	5.3 (2.4)	5.3 (2.4)	5.3 (2.4)	5.3 (2.4)
Actual Shipping weight, lbs (kg)	10 (4.5)	10 (4.5)	10 (4.5)	10 (4.5)
Shipping dimensions, in (mm)	48x7x4 (1219x178x102)	48x7x4 (1219x178x102)	48x7x4 (1219x178x102)	48x7x4 (1219x178x102)
Mounting hardware	#135B clamp	#135B clamp	#135B clamp	#135B 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)	-40 to +140 (-40 to +60)
Lateral thrust (100mph), lbs (N)	6.4 (28.5)	6.4 (28.5)	6.4 (28.5)	6.4 (28.5)
Bending moment, ft-lbs (Nm)	8.5 (11.4)	8.5 (11.4)	8.5 (11.4)	8.5 (11.4)
Tip deflection, degrees	0.1	0.1	0.1	0.1

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SG317-SF5SNM

Electrical Specifications

Frequency Range, MHz	490 to 512
Gain (nominal), dBd (dBi)	2.5 (4.6)
Input VSWR (max)	1.5:1
Polarization	vertical
Pattern	Omni-directional
Horizontal beamwidth, degrees	360
Vertical beamwidth, degrees	35
Average Power Input (max), W	100
Lightning protection	DC ground
Bandwidth, MHz	22

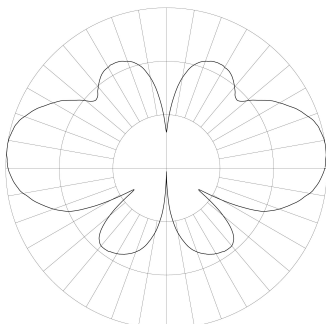
Mechanical Specifications

Connector	N (male)
Length/ Height, in (mm)	41.5 (1054)
Width, in (mm)	18.5 (470)
Depth, in (mm)	18.5 (470)
Base pipe diameter, in (mm)	0.8 (19)
Base pipe mounting length, in (mm)	8 (203)
Weight, lbs (kg)	1.5 (0.7)
Weight iced, lbs (kg)	5.3 (2.4)
Actual Shipping weight, lbs (kg)	10 (4.5)
Shipping dimensions, in (mm)	48x7x4 (1219x178x102)
Mounting hardware	#135B clamp

Environmental Specifications

Temperature range, °F (°C)	-40 to +140 (-40 to +60)
Lateral thrust (100mph), lbs (N)	6.4 (28.5)
Bending moment, ft-lbs (Nm)	8.5 (11.4)
Tip deflection, degrees	0.1

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SG317-SF1SNM

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