

SG317-SF1SNM Ground plane omni, 2.5 dBd, 5 MHz bandwidth, 406-420 MHz

Also referred as: SRL317-1

- Tunable to 5 MHz band width only within the sub-band
- Light weight, easy to install

The SG317 series is a tunable, low-cost 2.5 dBd gain omni-directional base station antenna for the 406-512 MHz, which is divided up into 5 sub-bands (F1=406-420 MHz; F2=450-470 MHz; F3=470-490 MHz; F4=430-450 MHz, and F5=490-512 MHz). These extremely versatile antennas may be field adjusted to resonance within the specified sub-band. A frequency adjustment chart is supplied with each antenna at time of order. This antenna is ideal for leased system service because of the field adjustment capability.



Electrical Specifications

Frequency Range	MHz	406 to 420
Bandwidth	MHz	5
Connector		N-Male
Gain (nominal)	dBd (dBi)	2.5 (4.6)
Input VSWR (max)		1.5:1
Polarization		vertical
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	35
Average Power Input (max)	W	100
Lightning protection		DC ground

Mechanical Specifications

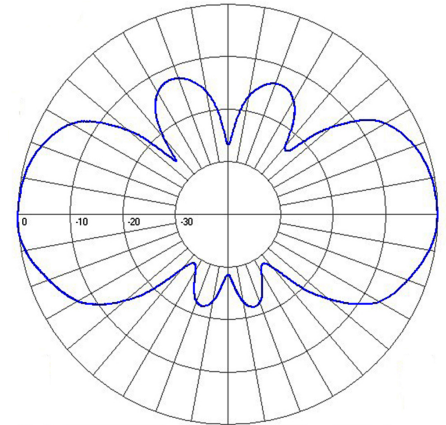
Width	in (mm)	18.5 (470)
Depth	in (mm)	18.5 (470)
Length/ Height	in (mm)	41.5 (1054) *1
Base pipe diameter	in (mm)	0.75 (19)
Base pipe mounting length	in (mm)	8 (203)
Weight	lbs (kg)	3.4 (1.54)
Weight iced (1/2" ice)	lbs (kg)	5.25 (2.38)
Mounting Hardware (Included)		Clamp135
Actual shipping weight	lbs (kg)	8 (3.63)
Shipping dimensions	in (mm)	48x6x6 (1219x152x152)

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft ² (m ²)	0.14 (0.01)
Wind Loading Area (1/2" ice)	ft ² (m ²)	0.32 (0.03)
Rated wind velocity (no ice)	mph (km/h)	150 (242)
Rated wind velocity (1/2" radial ice)	mph (km/h)	105 (169)
Lateral thrust (100 mph No Ice)	lbs (N)	6.4 (28.5)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	8.47 (11.4)
Tip deflection (100 mph No Ice)	degrees	0.05

Notes

*1 : Mechanical specification is for worst case (B)=1



Elevation