

SY250-SF2SNM(C) Yagi directional, 7 dBd, center mount, 138-174 MHz

Also referred as: SRL250

- Center mounting
- Extremely wide bandwidth makes these antennas excellent stocking items
- Specially designed for applications requiring extra broadband operation
- Dual and quad arrays available

The SY250 is a medium gain broadband yagi antenna. It has been specially designed to replace the 206 series where extra broadband operation is required and/or icing and hoarfrost conditions are prevalent.

The extremely wide bandwidth of the SY250 series makes it practical to stock these antennas for fast replacement use in any part of the 138-174 MHz band. Dual and quad arrays are available to meet your needs for higher gain, providing 9.5 and 12.0 dB gain respectively. The SY250 is also available for end boom mounting.



www.sinctech.com

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) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

### Electrical Specifications

Frequency Range	MHz	138 to 174
Bandwidth	MHz	36
Connector		N-Male
Gain (nominal)	dBd (dBi)	7 (9.1)
Input VSWR (max)		2:1
Polarization		vertical or horizontal
Pattern		Directional
Horizontal beamwidth (typ)	degrees	80
Vertical beamwidth (typ)	degrees	60
Average Power Input (max)	W	200
Front-to-back ratio (typ)	dB	20

### Mechanical Specifications

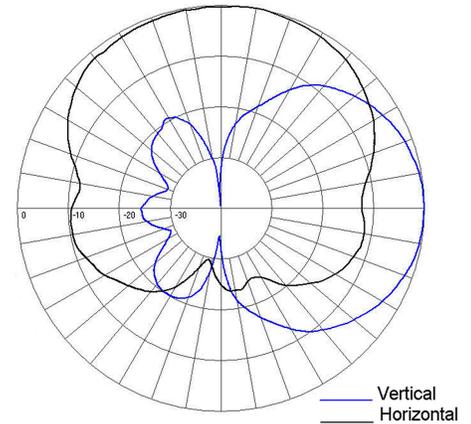
Width	in (mm)	42 (1067)
Depth	in (mm)	5 (127)
Length/ Height	in (mm)	80.5 (2045)
Base pipe diameter	in (mm)	1.5 (38)
Weight	lbs (kg)	9.5 (4.31)
Weight iced (1/2" ice)	lbs (kg)	31.2 (14.16)
Mounting Hardware (Included)		Clamp001
Actual shipping weight	lbs (kg)	27 (12.26)
Shipping dimensions	in (mm)	84x48x6 (2134x1219x152)

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft <sup>2</sup> (m <sup>2</sup> )	1.51 (0.14)
Wind Loading Area (1/2" ice)	ft <sup>2</sup> (m <sup>2</sup> )	3.09 (0.29)
Rated wind velocity (no ice)	mph (km/h)	173 (279)
Rated wind velocity (1/2" radial ice)	mph (km/h)	110 (177)
Lateral thrust (100 mph No Ice)	lbs (N)	39 (173.5)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	57 (77)

### Ordering Information

Mounting hardware included.



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