

SY250-SF2S(XX)(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.



- Wall mount: WMK-250 wall mount kit

When ordering, please refer to the chart below for the model number and contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Connector
SY250-SF2SNM(C)	N-Male
SY250-SF2SNF(C)	N-Female

www.sinctech.com

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
<b>Telephone</b>	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

### Electrical Specifications

Frequency Range	MHz	138 to 174	
Bandwidth	MHz	36	
Connector		Various options avail.	*1
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 Input Power (max)	W	200	
Front-to-back ratio (Typ)	dB	20	

### Notes

\*1 : See previous page for details

### Mechanical Specifications

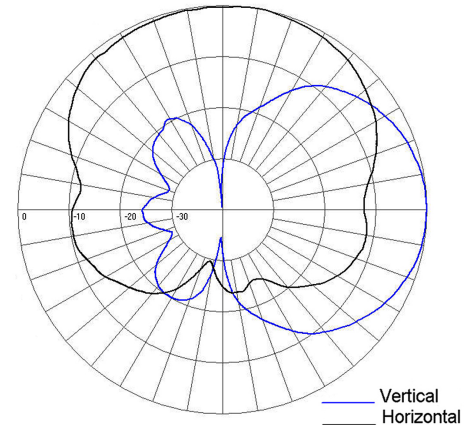
Width	in (mm)	42 (1067)
Depth	in (mm)	5 (127)
Length/ Height	in (mm)	80.5 (2045)
Base pipe diameter	in (mm)	1.5 (38)
Weight	lbs (kg)	9.5 (4.31)
Weight iced (1/2" ice)	lbs (kg)	31.2 (14.16)
Mounting Hardware (Included)		Clamp001
Actual shipping weight	lbs (kg)	27 (12.26)
Shipping dimensions	in (mm)	84x48x6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

### Ordering Information

Mounting hardware included.

### 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)



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