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SY250

Yagi directional antenna, 7 dBd gain, broad band, 138-174 MHz

- Extremely wide bandwidth makes these antennas an excellent stocking item
- Specially designed for applications requiring extra broadband operation
- Suitable for applications in icing and hoarfrost conditions

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 dBd gain respectively. The SY250 is also available for end boom mounting.



Model	Description	Pattern
SY250-SF2SNM(C)	7 dBd gain, N (male) connector, 138-174 MHz	Directional

www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1223 42 03 03	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		SY250		Dated: 05-02-10

SY250-SF2SNM(C)

Electrical Specifications

Frequency Range, MHz	138 to 174
Gain (nominal), dBd (dBi)	7 (9.1)
Input VSWR (max)	2:1
Polarization	vertical or horizontal
Pattern	Directional
Horizontal beamwidth, degrees	80
Vertical beamwidth, degrees	60
Average Power Input (max), W	200
Front-to-back Ratio, dB	20 to 20
Lightning protection	DC ground
Bandwidth, MHz	36

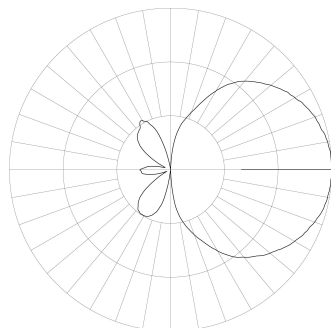
Mechanical Specifications

Connector	N (male)
Length/ Height, in (mm)	80.5 (2045)
Width, in (mm)	42 (1067)
Depth, in (mm)	5 (127)
Base pipe diameter, in (mm)	1.5 (38)
Weight, lbs (kg)	9.5 (4.3)
Weight iced, lbs (kg)	31.2 (14.2)
Actual Shipping weight, lbs (kg)	45 (20.4)
Shipping dimensions, in (mm)	111x7x44 (2819x178x1118)
Mounting hardware	#1 Clamp

Environmental Specifications

Temperature range, °F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	1.51 (0.14)

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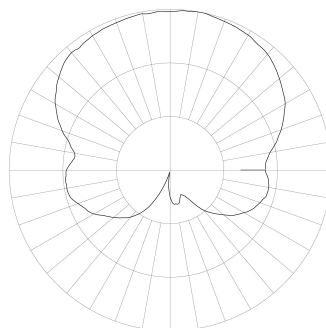


MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SY250-SF2SNM(C)

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MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Azimuth
Relative Gain - 10 dB per Division

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