

## 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
<a href="#">SY250-SF2SNM(C)</a>	7 dBd gain, N (male) connector, 138-174 MHz	Directional



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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

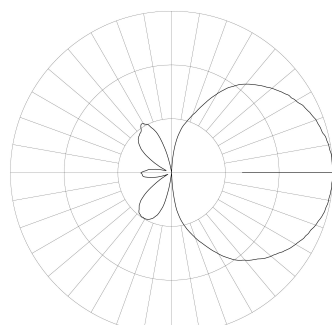
**Mechanical Specifications**

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), ft² (m²)	1.51 (0.14)

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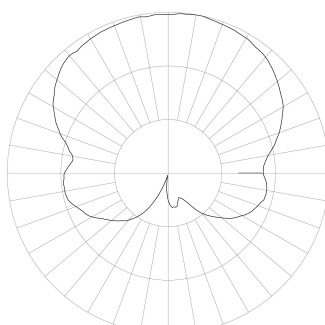


MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

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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