

SY203

Yagi directional antenna, 5.5 dBd gain, 138-174 MHz

- Rugged 3-element yagi, 5.5 dBd gain
- Designed for medium gain applications
- Center-boom mounting

The SY203 series of antennas consist of a 3-element yagi of outstanding durability and performance. All elements including the folded dipole are maintained at DC Ground potential for lightning protection. All elements on this antenna are attached to the boom with solid cast aluminum clamps.

This highly versatile antenna is supplied as a standard mount yagi, or the SY203-EB series can be ordered for end-boom mounting.

As with other yagis, this VHF antenna is available in multiple-unit arrays for added gain.



Model	Description	Pattern
SY203-SF1SNM	5.5 dBd gain, N (male) connector, 138-144 MHz	Directional
SY203-SF2SNM	5.5 dBd gain, N (male) connector, 143-149 MHz	Directional
SY203-SF3SNM	5.5 dBd gain, N (male) connector, 148-154 MHz	Directional
SY203-SF4SNM	5.5 dBd gain, N (male) connector, 152-159 MHz	Directional
SY203-SF5SNM	5.5 dBd gain, N (male) connector, 157-164 MHz	Directional
SY203-SF6SNM	5.5 dBd gain, N (male) connector, 162-169 MHz	Directional
SY203-SF7SNM	5.5 dBd gain, N (male) connector, 167-174 MHz	Directional

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		SY203		Dated: 05-02-10

[SY203-SF1SNM](#)

[SY203-SF2SNM](#)

[SY203-SF3SNM](#)

[SY203-SF4SNM](#)

Electrical Specifications

Frequency Range, MHz	138 to 144	143 to 149	148 to 154	152 to 159
Gain (nominal), dBd (dBi)	5.5 (7.6)	5.5 (7.6)	5.5 (7.6)	5.5 (7.6)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical or horizontal	vertical or horizontal	vertical or horizontal	vertical or horizontal
Pattern	Directional	Directional	Directional	Directional
Horizontal beamwidth, degrees	87	87	87	87
Vertical beamwidth, degrees	61	61	61	61
Average Power Input (max), W	250	250	250	250
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	6	6	6	7
Front-to-back ratio (typ), dB	12	12	12	12

Mechanical Specifications

Connector	N (male)	N (male)	N (male)	N (male)
Length/ Height, in (mm)	40.1 (1019)	40.1 (1019)	40.1 (1019)	40.1 (1019)
Width, in (mm)	42 (1067)	42 (1067)	42 (1067)	42 (1067)
Depth, in (mm)	6.5 (165)	6.5 (165)	6.5 (165)	6.5 (165)
Weight, lbs (kg)	3.2 (1.5)	3.2 (1.5)	3.2 (1.5)	3.2 (1.5)
Actual Shipping weight, lbs (kg)	15 (6.8)	15 (6.8)	15 (6.8)	15 (6.8)
Shipping dimensions, in (mm)	86x7x8 (2184x178x203)	86x7x8 (2184x178x203)	86x7x8 (2184x178x203)	86x7x8 (2184x178x203)

Environmental Specifications

Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	0.8 (0.07)	0.8 (0.07)	0.8 (0.07)	0.8 (0.07)
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[SY203-SF5SNM](#)

[SY203-SF6SNM](#)

[SY203-SF7SNM](#)

Electrical Specifications

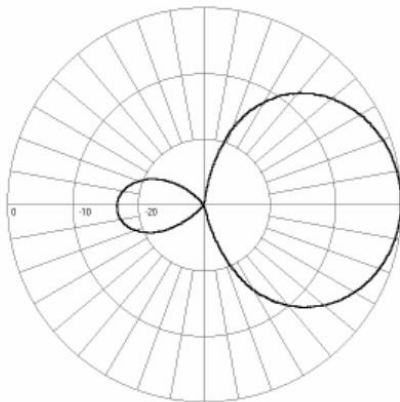
Frequency Range, MHz	157 to 164	162 to 169	167 to 174
Gain (nominal), dBd (dBi)	5.5 (7.6)	5.5 (7.6)	5.5 (7.6)
Input VSWR (max)	1.5:1	1.5:1	1.5:1
Polarization	vertical or horizontal	vertical or horizontal	vertical or horizontal
Pattern	Directional	Directional	Directional
Horizontal beamwidth, degrees	87	87	87
Vertical beamwidth, degrees	61	61	61
Average Power Input (max), W	250	250	250
Lightning protection	DC ground	DC ground	DC ground
Bandwidth, MHz	7	7	7
Front-to-back ratio (typ), dB	12	12	12

Mechanical Specifications

Connector	N (male)	N (male)	N (male)
Length/ Height, in (mm)	40.1 (1019)	40.1 (1019)	40.1 (1019)
Width, in (mm)	42 (1067)	42 (1067)	42 (1067)
Depth, in (mm)	6.5 (165)	6.5 (165)	6.5 (165)
Weight, lbs (kg)	3.2 (1.5)	3.2 (1.5)	3.2 (1.5)
Actual Shipping weight, lbs (kg)	15 (6.8)	15 (6.8)	15 (6.8)
Shipping dimensions, in (mm)	86x7x8 (2184x178x203)	86x7x8 (2184x178x203)	86x7x8 (2184x178x203)

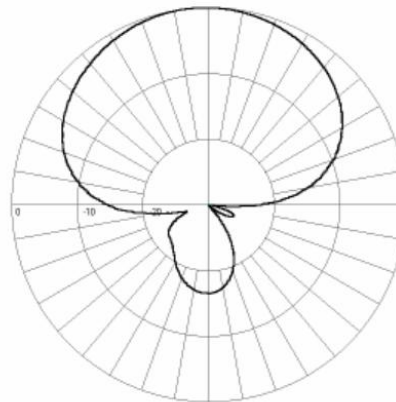
Environmental Specifications

Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	0.8 (0.07)	0.8 (0.07)	0.8 (0.07)
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Elevation

SY203-SF1SNM



Azimuth

SY203-SF1SNM

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