

SY206

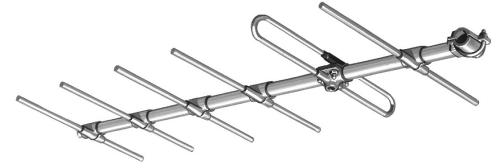
Yagi directional antenna, 9.5 dBd gain, 138-225 MHz

- Six element yagi
- Outstanding durability and performance
- DC ground potential for lightning protection

The SY206 antenna consists of a six-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, as an end-boom mounted unit.

As with other yagis, this VHF antenna is available in multiple-unit arrays for added gain. Horizontally or vertically parallel kits of 'H' frames can readily be supplied to mount two or four yagis with a common feed.



Model	Description	Pattern
SY206-SF10SNM(C)	9.5 dBd gain, N (male) connector, 108-118 MHz	Directional
SY206-SF1SNM	Yagi directional antenna, 9.5 dBd gain, 148-152 MHz	Directional
SY206-SF2SNM	Yagi directional antenna, 9.5 dBd gain, 152-159 MHz	Directional
SY206-SF3SNM	Yagi directional antenna, 9.5 dBd gain, 157-164 MHz	Directional
SY206-SF4SNM	Yagi directional antenna, 9.5 dBd gain, 162-169 MHz	Directional
SY206-SF5SNM	Yagi directional antenna, 9.5 dBd gain, 167-174 MHz	Directional
SY206-SF6SNM	Yagi directional antenna, 9.5 dBd gain, 138-143 MHz	Directional
SY206-SF7SNM	Yagi directional antenna, 9.5 dBd gain, 143-148 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		SY206		Dated: 05-02-10

[SY206-SF10SNM\(C\)](#)

[SY206-SF1SNM](#)

[SY206-SF2SNM](#)

[SY206-SF3SNM](#)

Electrical Specifications

Frequency Range, MHz	108 to 118	148 to 152	152 to 159	157 to 164
Frequency Range 1 (F1) , MHz		138 to 225	138 to 225	138 to 225
Gain (nominal), dBd (dBi)	9.5 (11.6)	9.5 (11.6)	9.5 (11.6)	9.5 (11.6)
Input VSWR (max)	2:1	1.5:1	1.5:1	1.5:1
Polarization	horizontal	vertical or horizontal	vertical or horizontal	vertical or horizontal
Pattern	Directional	Directional	Directional	Directional
Horizontal beamwidth, degrees	48	56	56	56
Vertical beamwidth, degrees	56	46	46	46
Average Power Input (max), W	200	175	175	175
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	10	4	7	7
Front-to-back ratio (typ), dB	12	17	17	17

Mechanical Specifications

Connector	N (male)	N (male)	N (male)	N (male)
Length/ Height, in (mm)	109 (2769)	80.9 (2055)	80.9 (2055)	80.9 (2055)
Width, in (mm)	53 (1346)	42.2 (1071)	42.2 (1071)	42.2 (1071)
Depth, in (mm)	6 (152)	5.8 (146)	5.8 (146)	5.8 (146)
Base pipe diameter, in (mm)		1.5 (38)	1.5 (38)	1.5 (38)
Weight, lbs (kg)	22 (10)	12.5 (5.7)	12.5 (5.7)	12.5 (5.7)
Weight iced, lbs (kg)		34.4 (15.6)	34.4 (15.6)	34.4 (15.6)
Actual Shipping weight, lbs (kg)		41 (18.6)	41 (18.6)	41 (18.6)
Shipping dimensions, in (mm)	126x7x7 (3200x178x178)	84.8x48x6 (2154x1219x152)	84.8x48x6 (2154x1219x152)	84.8x48x6 (2154x1219x152)
Mounting hardware		#1 Clamp	#1 Clamp	#1 Clamp

Environmental Specifications

Temperature range, °F (°C)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	2.23 (0.21)	1.41 (0.13)	1.41 (0.13)	1.41 (0.13)

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[SY206-SF4SNM](#)

[SY206-SF5SNM](#)

[SY206-SF6SNM](#)

[SY206-SF7SNM](#)

Electrical Specifications

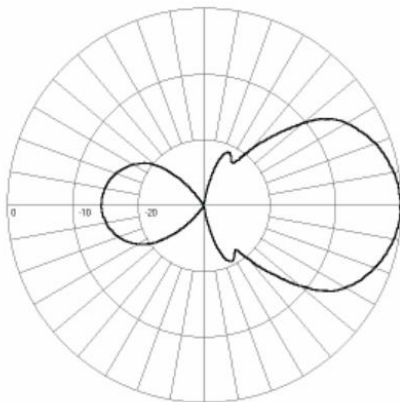
Frequency Range, MHz	162 to 169	167 to 174	138 to 143	143 to 148
Frequency Range 1 (F1) , MHz	138 to 225	138 to 225	138 to 225	138 to 225
Gain (nominal), dBd (dBi)	9.5 (11.6)	9.5 (11.6)	9.5 (11.6)	9.5 (11.6)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical or horizontal	vertical or horizontal	vertical or horizontal	vertical or horizontal
Pattern	Directional	Directional	Directional	Directional
Horizontal beamwidth, degrees	56	56	56	56
Vertical beamwidth, degrees	46	46	46	46
Average Power Input (max), W	175	175	175	175
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	7	7	5	5
Front-to-back ratio (typ), dB	17	17	17	17

Mechanical Specifications

Connector	N (male)	N (male)	N (male)	N (male)
Length/ Height, in (mm)	80.9 (2055)	80.9 (2055)	80.9 (2055)	80.9 (2055)
Width, in (mm)	42.2 (1071)	42.2 (1071)	42.2 (1071)	42.2 (1071)
Depth, in (mm)	5.8 (146)	5.8 (146)	5.8 (146)	5.8 (146)
Base pipe diameter, in (mm)	1.5 (38)	1.5 (38)	1.5 (38)	1.5 (38)
Weight, lbs (kg)	12.5 (5.7)	12.5 (5.7)	12.5 (5.7)	12.5 (5.7)
Weight iced, lbs (kg)	34.4 (15.6)	34.4 (15.6)	34.4 (15.6)	34.4 (15.6)
Actual Shipping weight, lbs (kg)	41 (18.6)	41 (18.6)	41 (18.6)	41 (18.6)
Shipping dimensions, in (mm)	84.8x48x6 (2154x1219x152)	84.8x48x6 (2154x1219x152)	84.8x48x6 (2154x1219x152)	84.8x48x6 (2154x1219x152)
Mounting hardware	#1 Clamp	#1 Clamp	#1 Clamp	#1 Clamp

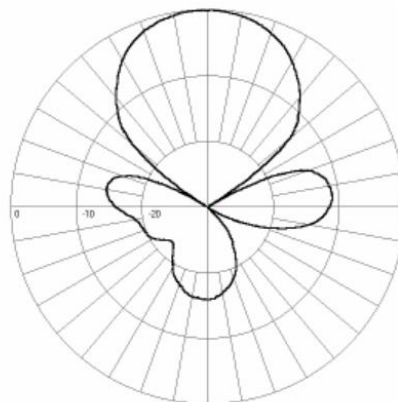
Environmental Specifications

Temperature range, °F (°C)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent), ft ² (m ²)	1.41 (0.13)	1.41 (0.13)	1.41 (0.13)	1.41 (0.13)



Elevation

SY206-SF10SNM(C)



Azimuth

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