

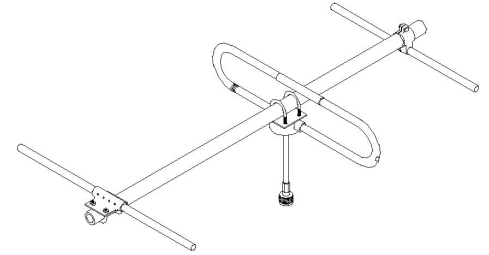
**SY203-SF2SNM(C-ABK)** Yagi directional, 5.5 dBd, center mount, Black Anodized, 143-149 MHz

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

The SY203(C) 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 center mount Yagi. For end mounting, the SY203(E) series can be ordered which has an extended boom.

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



| Region           | United States          | Europe, Middle East and Africa       | Caribbean and Latin America    | Canada and rest of the world                             |
|------------------|------------------------|--------------------------------------|--------------------------------|--|
| <b>Telephone</b> | USA: 1 800 263 3275    | International: +44 (0) 1487 84 28 19 | International: +1 905 726 7676 | Canada: 1 800 263 3275<br>International: +1 905 727 0165 |
| <b>E-mail</b>    | salesusa@sincltech.com | salesuk@sincltech.com                | salesla@sincltech.com          | salescan@sincltech.com                                   |

### Electrical Specifications

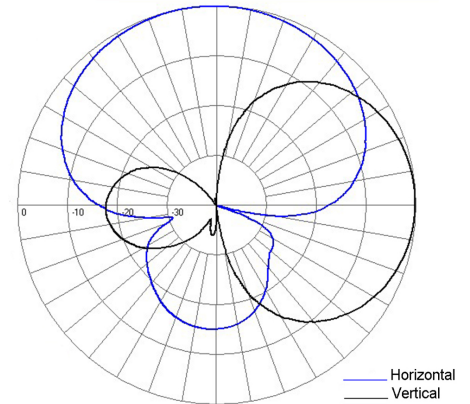
|                            |           |                        |
|----------------------------|-----------|------------------------|
| Frequency Range            | MHz       | 143 to 149             |
| Bandwidth                  | MHz       | 6                      |
| Connector                  |           | N-Male                 |
| Gain (nominal)             | dBd (dBi) | 5.5 (7.6)              |
| Input VSWR (max)           |           | 1.5:1                  |
| Polarization               |           | vertical or horizontal |
| Pattern                    |           | Directional            |
| Horizontal beamwidth (typ) | degrees   | 87                     |
| Vertical beamwidth (typ)   | degrees   | 61                     |
| Average Power Input (max)  | W         | 200                    |
| Lightning protection       |           | DC ground              |
| Front-to-back ratio (typ)  | dB        | 12                     |

### Mechanical Specifications

|                              |          |                        |
|------------------------------|----------|------------------------|
| Width                        | in (mm)  | 42 (1067)              |
| Depth                        | in (mm)  | 6.5 (165)              |
| Length/ Height               | in (mm)  | 40.1 (1019)            |
| Radiating element material   |          | aluminum               |
| Reflector material           |          | aluminum               |
| Finish                       |          | anodize (black)        |
| Weight                       | lbs (kg) | 3.2 (1.45)             |
| Mounting Hardware (Included) |          | Clamp001               |
| Actual shipping weight       | lbs (kg) | 15 (6.81)              |
| Shipping dimensions          | in (mm)  | 47x6x18 (1194x152x457) |

### Environmental Specifications

|   |                                   |              |
|---|-----------------------------------|--------------|
| Wind Loading Area (Flat Plate Equivalent) | ft <sup>2</sup> (m <sup>2</sup> ) | 0.8 (0.07)   |
| Wind Loading Area (1/2" ice)              | ft <sup>2</sup> (m <sup>2</sup> ) | 1.68 (0.16)  |
| Rated wind velocity (no ice)              | mph (km/h)                        | 150 (242)    |
| Rated wind velocity (1/2" radial ice)     | mph (km/h)                        | 110 (177)    |
| Lateral thrust (100 mph No Ice)           | lbs (N)                           | 29.5 (131.2) |
| Bending moment (100 mph No Ice)           | ft-lbs (Nm)                       | 8.1 (10.9)   |



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