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**SC225M**

Collinear omni antenna, 0 dBd gain, 130-174 MHz

- lightweight collinear Omni antenna
- PVC radome
- Light weight

The SC225 series are a lightweight, collinear antenna constructed of high strength fiberglass with an aluminum coaxial skirt and base pipe. The combined features of light weight, unity gain, and low cost make this antenna a natural choice for moderate base station antenna requirements. This antenna is designed for aviation service.

Mounting clamps are provided for parallel mounting to a minimum 1.9 inch diameter support pipe.

| Model                         | Description                                 | Pattern          |
|-------------------------------|---|------------------|
| <a href="#">SC225M-SF1SNM</a> | 0 dBd gain, N (male) connector, 130-139 MHz | Omni-directional |
| <a href="#">SC225M-SF2SNM</a> | 0 dBd gain, N (male) connector, 138-148 MHz | Omni-directional |
| <a href="#">SC225M-SF3SNM</a> | 0 dBd gain, N (male) connector, 147-157 MHz | Omni-directional |
| <a href="#">SC225M-SF4SNM</a> | 0 dBd gain, N (male) connector, 156-166 MHz | Omni-directional |
| <a href="#">SC225M-SF5SNM</a> | 0 dBd gain, N (male) connector, 164-174 MHz | Omni-directional |



www.sinctech.com



**Australian Representatives**  
**ROJONE, PTY LTD.**  
Tel: 02 9829 1555  
E: [sales@rojone.com.au](mailto:sales@rojone.com.au)  
[www.rojone.com.au](http://www.rojone.com.au)

| 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) 1223 42 03 03                           | International: +1 905 726 7676                                 | Canada: 1 800 263 3275<br>International: +1 905 727 0165         |
| <b>E-mail</b>               | <a href="mailto:salesusa@sinctech.com">salesusa@sinctech.com</a> | <a href="mailto:salesuk@sinctech.com">salesuk@sinctech.com</a> | <a href="mailto:salesla@sinctech.com">salesla@sinctech.com</a> | <a href="mailto:salescan@sinctech.com">salescan@sinctech.com</a> |
| Product Specification Sheet |  | SC225M   |  | Dated: 05-02-10  |

[SC225M-SF1SNM](#)

[SC225M-SF2SNM](#)

[SC225M-SF3SNM](#)

[SC225M-SF4SNM](#)

**Electrical Specifications**

|                              | SC225M-SF1SNM    | SC225M-SF2SNM    | SC225M-SF3SNM    | SC225M-SF4SNM    |
|------------------------------|------------------|------------------|------------------|------------------|
| Frequency Range, MHz         | 130 to 139       | 138 to 148       | 147 to 157       | 156 to 166       |
| Gain (nominal), dBd (dBi)    | unity (2.1)      | unity (2.1)      | unity (2.1)      | unity (2.1)      |
| Input VSWR (max)             | 1.5:1            | 1.5:1            | 1.5:1            | 1.5:1            |
| Polarization                 | vertical         | vertical         | vertical         | vertical         |
| Impedance, Ω                 | 50               | 50               | 50               | 50               |
| Pattern                      | Omni-directional | Omni-directional | Omni-directional | Omni-directional |
| Vertical beamwidth, degrees  | 80               | 80               | 80               | 80               |
| Average Power Input (max), W | 250              | 250              | 250              | 250              |
| Lightning protection         | DC ground        | DC ground        | DC ground        | DC ground        |
| Bandwidth, MHz               | 9                | 10               | 10               | 10               |
| Electrical tilt (available)  | 0                | 0                | 0                | 0                |

**Mechanical Specifications**

|                                  | SC225M-SF1SNM         | SC225M-SF2SNM         | SC225M-SF3SNM         | SC225M-SF4SNM         |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Connector                        | N (male)              | N (male)              | N (male)              | N (male)              |
| Width, in (mm)                   | 2.5 (64)              | 2.5 (64)              | 2.5 (64)              | 2.5 (64)              |
| Depth, in (mm)                   | 2.5 (64)              | 2.5 (64)              | 2.5 (64)              | 2.5 (64)              |
| Weight, lbs (kg)                 | 7 (3.2)               | 7 (3.2)               | 7 (3.2)               | 7 (3.2)               |
| Actual Shipping weight, lbs (kg) | 15 (6.8)              | 15 (6.8)              | 15 (6.8)              | 15 (6.8)              |
| Shipping dimensions, in (mm)     | 73x5x6 (1854x127x152) | 73x5x6 (1854x127x152) | 73x5x6 (1854x127x152) | 73x5x6 (1854x127x152) |
| Length, in (mm)                  | 65.5 (1664)           | 65.5 (1664)           | 65.5 (1664)           | 65.5 (1664)           |
| Mounting hardware                | #5 clamp              | #5 clamp              | #5 clamp              | #5 clamp              |

**Environmental Specifications**

|   | SC225M-SF1SNM            | SC225M-SF2SNM            | SC225M-SF3SNM            | SC225M-SF4SNM            |
|---|--------------------------|--------------------------|--------------------------|--------------------------|
| 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), ft² (m²) | 0.56 (0.05)              | 0.56 (0.05)              | 0.56 (0.05)              | 0.56 (0.05)              |

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| E-mail    | salesusa@sinctech.com | salesuk@sinctech.com                 | salesla@sinctech.com           | salescan@sinctech.com                                    |

SC225M-SF5SNM

**Electrical Specifications**

|                              |                  |
|------------------------------|------------------|
| Frequency Range, MHz         | 164 to 174       |
| Gain (nominal), dBd (dBi)    | unity (2.1)      |
| Input VSWR (max)             | 1.5:1            |
| Polarization                 | vertical         |
| Impedance, $\Omega$          | 50               |
| Pattern                      | Omni-directional |
| Vertical beamwidth, degrees  | 80               |
| Average Power Input (max), W | 250              |
| Lightning protection         | DC ground        |
| Bandwidth, MHz               | 10               |
| Electrical tilt (available)  | 0                |

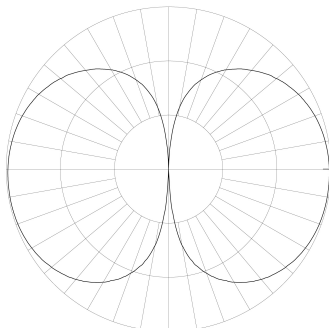
**Mechanical Specifications**

|                                  |                       |
|----------------------------------|-----------------------|
| Connector                        | N (male)              |
| Width, in (mm)                   | 2.5 (64)              |
| Depth, in (mm)                   | 2.5 (64)              |
| Weight, lbs (kg)                 | 7 (3.2)               |
| Actual Shipping weight, lbs (kg) | 15 (6.8)              |
| Shipping dimensions, in (mm)     | 73x5x6 (1854x127x152) |
| Length, in (mm)                  | 65.5 (1664)           |
| Mounting hardware                | #5 clamp              |

**Environmental Specifications**

|  |                          |
|--|--------------------------|
| Temperature range, °F (°C)   | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent), ft <sup>2</sup> (m <sup>2</sup> ) | 0.56 (0.05)              |

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

SC225M-SF1SNM

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| Product Specification Sheet |                       | SC225M                               |                                | Dated: 05-02-10  |