

SC488

Collinear omni antenna, 10 dBd gain, 806-960 MHz

- 10 dBd gain, omni-directional pattern, 4 frequency sub bands
- Standard duty durable fiberglass radome
- Available in electrical downtilts 2,4 and 6 degree, inverted and low noise options
- Recommend using the SMK-325-A3 side mounting kit.

The SC488 series fiberglass collinear omni-directional antenna offers narrow beam width and higher gain for systems in trunking (806-869 MHz), cellular (824-896 MHz) or uplink trunking (896-940 MHz). Designed with 10 dBd gain, the zero degree downtilt version of this antenna can be mounted in either an upright or inverted orientation (universal mount).

This antenna is also available with a full compliment of electrical downtilts in both upright and inverted patterns.

| Model | Description | Pattern |
|-----------------------------------|---|------------------|
| SC488-SF1SNF | 10 dBd gain, N (female) connector, 806-869 MHz | Omni-directional |
| SC488-SF1SNF(D02) | 9 dBd gain, 2° downtilt, 806-869 MHz | Omni-directional |
| SC488-SF1SNF(D04) | 8.5 dBd gain, N (female) connector, 806-869 MHz | Omni-directional |
| SC488-SF1SNF(D06) | Collinear omni antenna, 10 dBd gain, 6° DT, 806-869 MHz | Omni-directional |
| SC488-SF2SNF | 10 dBd gain, N (female) connector, 824-896 MHz | Omni-directional |
| SC488-SF2SNF(D02) | 10 dBd gain, N (female) connector, 824-896 MHz | Omni-directional |
| SC488-SF2SNF(D04) | 10 dBd gain, N (female) connector, 824-896 MHz | Omni-directional |
| SC488-SF3SNF | 10 dBd gain, N (female) connector, 890-940 MHz | Omni-directional |
| SC488-SF3SNF(D06) | Collinear omni antenna, 10 dBd gain, 6° DT, 890-940 MHz | Omni-directional |
| SC488-SF4SNF | 10 dBd gain, N (female) connector, 928-960 MHz | Omni-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 | | SC488 | | Dated: 05-02-10 |

[SC488-SF1SNF](#)

[SC488-SF1SNF\(D02\)](#)

[SC488-SF1SNF\(D04\)](#)

[SC488-SF1SNF\(D06\)](#)

Electrical Specifications

| | SC488-SF1SNF | SC488-SF1SNF(D02) | SC488-SF1SNF(D04) | SC488-SF1SNF(D06) |
|------------------------------|------------------|-------------------|-------------------|-------------------|
| Frequency Range, MHz | 806 to 869 | 806 to 869 | 806 to 869 | 806 to 869 |
| Gain (nominal), dBd (dBi) | 10 (12.1) | 9 (11.1) | 8.5 (10.6) | 10 (12.1) |
| Input VSWR (max) | 1.5:1 | 1.5:1 | 1.5:1 | 1.4:1 |
| Polarization | vertical | vertical | vertical | vertical |
| Pattern | Omni-directional | Omni-directional | Omni-directional | Omni-directional |
| Vertical beamwidth, degrees | 6 | 6 | 6 | 6 |
| Average Power Input (max), W | 500 | 500 | 500 | 500 |
| Lightning protection | DC ground | DC ground | DC ground | DC ground |
| Electrical tilt (available) | 0, 2, 3 | 2 | 4 | 6 |

Mechanical Specifications

| | SC488-SF1SNF | SC488-SF1SNF(D02) | SC488-SF1SNF(D04) | SC488-SF1SNF(D06) |
|------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Connector | N (female) | N (female) | N (female) | N (female) |
| Length/ Height, in (mm) | 183 (4648) | 183 (4648) | 183 (4648) | 183 (4648) |
| 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) |
| Base pipe diameter, in (mm) | 2.5 (64) | 2.5 (64) | 2.5 (64) | 2.5 (64) |
| Base pipe mounting length, in (mm) | 24 (610) | 24 (610) | 24 (610) | 24 (610) |
| Weight, lbs (kg) | 30 (13.6) | 30 (13.6) | 30 (13.6) | 30 (13.6) |
| Shipping dimensions, in (mm) | 228x4.5x4.5 (5791x114x114) | 228x4.5x4.5 (5791x114x114) | 228x4.5x4.5 (5791x114x114) | 228x4.5x4.5 (5791x114x114) |
| Mounting hardware | #130 clamps supplied. | #130 clamps supplied. | #130 clamps supplied. | #130 clamps supplied. |

Environmental Specifications

| | SC488-SF1SNF | SC488-SF1SNF(D02) | SC488-SF1SNF(D04) | SC488-SF1SNF(D06) |
|---|--------------------------|--------------------------|--------------------------|--------------------------|
| 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) | 1.9 (0.18) | 1.9 (0.18) | 1.9 (0.18) | 1.9 (0.18) |

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[SC488-SF2SNF](#)

[SC488-SF2SNF\(D02\)](#)

[SC488-SF2SNF\(D04\)](#)

[SC488-SF3SNF](#)

Electrical Specifications

| | | | | |
|------------------------------|------------------|------------------|------------------|------------------|
| Frequency Range, MHz | 824 to 896 | 824 to 896 | 824 to 896 | 890 to 940 |
| Gain (nominal), dBd (dBi) | 10 (12.1) | 10 (12.1) | 10 (12.1) | 10 (12.1) |
| Input VSWR (max) | 1.5:1 | 1.5:1 | 1.5:1 | 1.5:1 |
| Polarization | vertical | vertical | vertical | vertical |
| Pattern | Omni-directional | Omni-directional | Omni-directional | Omni-directional |
| Vertical beamwidth, degrees | 6 | 6 | 6 | 6 |
| Average Power Input (max), W | 500 | 500 | 500 | 500 |
| Lightning protection | DC ground | DC ground | DC ground | DC ground |
| Electrical tilt (available) | 0 | 2 | 4 | 0, 2, 3 |

Mechanical Specifications

| | | | | |
|------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Connector | N (female) | N (female) | N (female) | N (female) |
| Length/ Height, in (mm) | 183 (4648) | 183 (4648) | 183 (4648) | 183 (4648) |
| 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) |
| Base pipe diameter, in (mm) | 2.5 (64) | 2.5 (64) | 2.5 (64) | 2.5 (64) |
| Base pipe mounting length, in (mm) | 24 (610) | 24 (610) | 24 (610) | 24 (610) |
| Weight, lbs (kg) | 30 (13.6) | 30 (13.6) | 30 (13.6) | 30 (13.6) |
| Shipping dimensions, in (mm) | 228x4.5x4.5 (5791x114x114) | 228x4.5x4.5 (5791x114x114) | 228x4.5x4.5 (5791x114x114) | 228x4.5x4.5 (5791x114x114) |
| Mounting hardware | #130 clamps supplied. | #130 clamps supplied. | #130 clamps supplied. | #130 clamps supplied. |

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), ft² (m²) | 1.9 (0.18) | 1.9 (0.18) | 1.9 (0.18) | 1.9 (0.18) |

| | | | | |
|-----------------------------|-----------------------|---------------------------------------|------------------------------------|--|
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[SC488-SF3SNF\(D06\)](#)

[SC488-SF4SNF](#)

Electrical Specifications

| | | |
|------------------------------|------------------|------------------|
| Frequency Range, MHz | 890 to 940 | 928 to 960 |
| Gain (nominal), dBd (dBi) | 10 (12.1) | 10 (12.1) |
| Input VSWR (max) | 1.5:1 | 1.5:1 |
| Polarization | vertical | vertical |
| Pattern | Omni-directional | Omni-directional |
| Vertical beamwidth, degrees | 6 | 6 |
| Average Power Input (max), W | 500 | 500 |
| Lightning protection | DC ground | DC ground |
| Electrical tilt (available) | 6 | 0, 2, 3 |

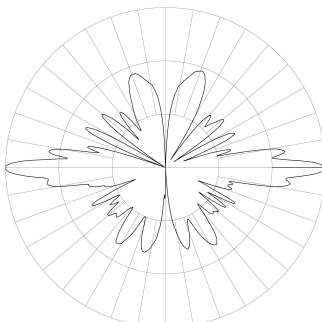
Mechanical Specifications

| | | |
|------------------------------------|----------------------------|----------------------------|
| Connector | N (female) | N (female) |
| Length/ Height, in (mm) | 183 (4648) | 183 (4648) |
| Width, in (mm) | 2.5 (64) | 2.5 (64) |
| Depth, in (mm) | 2.5 (64) | 2.5 (64) |
| Base pipe diameter, in (mm) | 2.5 (64) | 2.5 (64) |
| Base pipe mounting length, in (mm) | 24 (610) | 24 (610) |
| Weight, lbs (kg) | 30 (13.6) | 30 (13.6) |
| Shipping dimensions, in (mm) | 228x4.5x4.5 (5791x114x114) | 228x4.5x4.5 (5791x114x114) |
| Mounting hardware | #130 clamps supplied. | #130 clamps supplied. |

Environmental Specifications

| | | |
|--|--------------------------|--------------------------|
| Temperature range, °F (°C) | -40 to +140 (-40 to +60) | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent), ft ² (m ²) | 1.9 (0.18) | 1.9 (0.18) |

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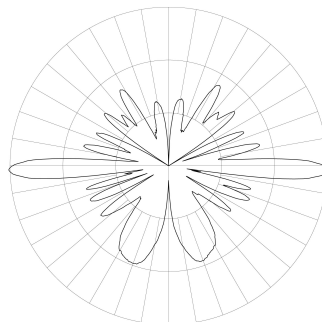


MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SC488-SF1SNF

SINCLAIR TECHNOLOGIES

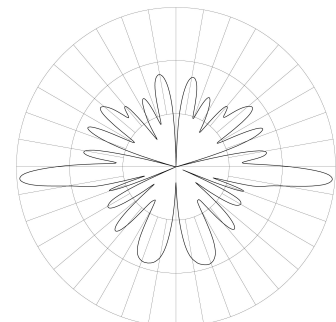


MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SC488-SF1SNF(D06)

SINCLAIR TECHNOLOGIES

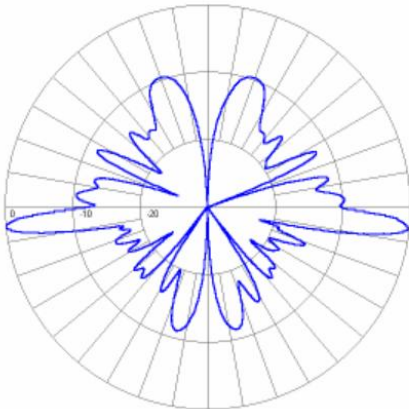


MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SC488-SF1SNF(D04)

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Elevation

SC488-SF1SNF(D06)

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