

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





Australian Representatives
ROJONE, PTY LTD.
Tel: 02 9829 1555
E: sales@rojone.com.au
www.rojone.com.au

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

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

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-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)
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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

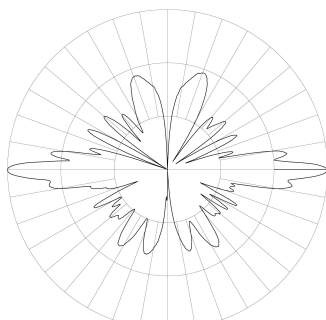
Mechanical Specifications

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)
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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), ft² (m²)	1.9 (0.18)	1.9 (0.18)

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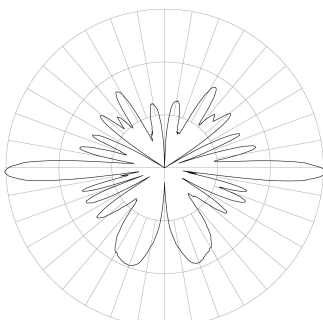
MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation

Relative Gain - 10 dB per Division

SC488-SF1SNF

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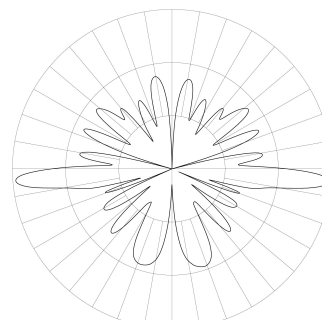
MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation

Relative Gain - 10 dB per Division

SC488-SF1SNF(D02)

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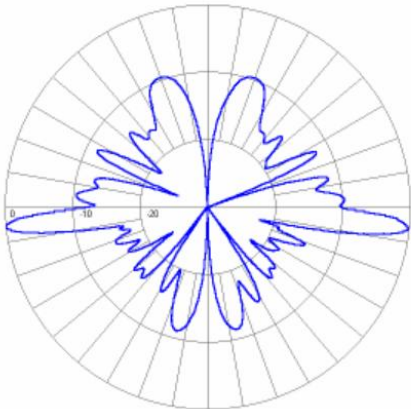
MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation

Relative Gain - 10 dB per Division

SC488-SF1SNF(D04)

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Elevation

SC488-SF1SNF(D06)

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