

SC488-L - PIM Certified Collinear omni antenna, 10 dBd gain, low PIM, 806-960 MHz

- 10 dBd gain, omni-directional pattern
- Standard duty durable fiberglass radome
- Low passive intermodulation

Sinclair's SC488-L series of antenna utilize a heavy-duty fiberglass radome. With 10 dBd gain and enhanced efficiency construction, the SC488-L series will cover the frequency range of 806-960 MHz in 4 sub bands.

Model	Description	Pattern
<a href="#">SC488-SF1LDF</a>	10 dBd gain, 7/16 DIN (female) connector, 806-869 MHz	Omni-directional
<a href="#">SC488-SF1LDF(D02)</a>	10 dBd gain, 7/16 DIN (female) connector, 806-866 MHz	Omni-directional
<a href="#">SC488-SF2LDF</a>	10 dBd gain, 7/16 DIN (female) connector, 824-896 MHz	Omni-directional
<a href="#">SC488-SF2LDF(D02)</a>	10 dBd gain, 7/16 DIN (female) connector, 824-896 MHz	Omni-directional
<a href="#">SC488-SF2LDF(D04)</a>	10 dBd gain, 7/16 DIN (female) connector, 824-896 MHz	Omni-directional
<a href="#">SC488-SF3LDF</a>	10 dBd gain, 7/16 DIN (female) connector, 890-940 MHz	Omni-directional
<a href="#">SC488-SF4LDF</a>	10 dBd gain, 7/16 DIN (female) connector, 928-960 MHz	Omni-directional
<a href="#">SC488-SF5LDF</a>	10 dBd gain, 7/16 DIN (female) connector, 1057-1123 MHz	Omni-directional



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		SC488-L - PIM Certified		Dated: 05-02-10

[SC488-SF1LDF](#)

[SC488-SF1LDF\(D02\)](#)

[SC488-SF2LDF](#)

[SC488-SF2LDF\(D02\)](#)

**Electrical Specifications**

Frequency Range, MHz	806 to 869	806 to 866	824 to 896	824 to 896
Gain (nominal), dBd (dBi)	10 (12.1)	10 (12.1)	10 (12.1)	9.5 (11.6)
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	750	750	750	750
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-150	-150	-150
Lightning protection	DC ground	DC ground	DC ground	DC ground
Electrical tilt (available)	0	2	0	2

**Mechanical Specifications**

Connector	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (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)
Weight iced, lbs (kg)				
Shipping dimensions, in (mm)	228x4.5x4.5 (5791x114x114)	228x4.5x4.5 (5791x114x114)	228x4.5x4.5 (5791x114x114)	228x4.5x4.5 (5791x114x114)
Mounting hardware	#130 clamp	#130 clamp	#130 clamp	#130 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), ft² (m²)	1.9 (0.18)	1.9 (0.18)	1.9 (0.18)	1.9 (0.18)

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[SC488-SF2LDF\(D04\)](#)

[SC488-SF3LDF](#)

[SC488-SF4LDF](#)

[SC488-SF5LDF](#)

**Electrical Specifications**

Frequency Range, MHz	824 to 896	890 to 940	928 to 960	1057 to 1123
Gain (nominal), dBd (dBi)	9 (11.1)	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	750	750	750	750
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-150	-150	-150
Lightning protection	DC ground	DC ground	DC ground	DC ground
Electrical tilt (available)	4	0,2,4,6	0,2,4,6	

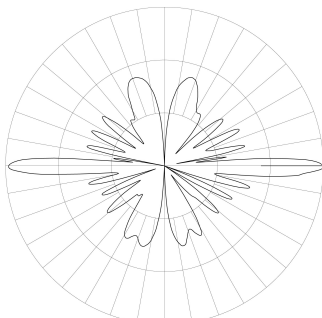
**Mechanical Specifications**

Connector	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	183 (4648)	183 (4648)	183 (4648)	142.7 (3624)
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)	19 (8.6)
Weight iced, lbs (kg)				49.5 (22.5)
Shipping dimensions, in (mm)	228x4.5x4.5 (5791x114x114)	228x4.5x4.5 (5791x114x114)	228x4.5x4.5 (5791x114x114)	168x4.5x4.5 (4267x114x114)
Mounting hardware	#130 clamp	#130 clamp	#130 clamp	#130 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 <sup>2</sup> (m <sup>2</sup> )	1.9 (0.18)	1.9 (0.18)	1.9 (0.18)	1.49 (0.14)

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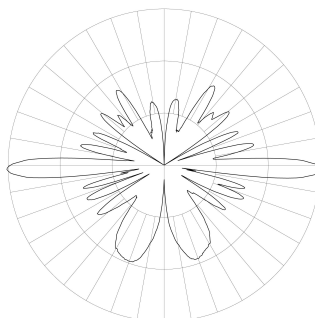


MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

SC488-SF1LDF

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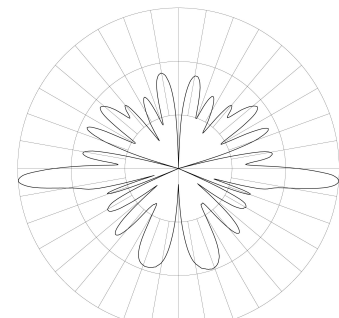


MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

SC488-SF1LDF(D04)

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MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

SC488-SF2LDF(D04)

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