

SC488-HF9LDF(DXX) Collinear omni, 9.5-10 dBd, low PIM, 0-6° DT, HD, 694-746 MHz

- 9.5-10 dBd gain with omni-directional pattern and low PIM
- Compact lightweight heavy-duty fiberglass radome
- 0-6° electrical downtilt available

### Recommend using the **SMK-325-A3** or **SMK-325-A7** kit when side mounting.

The SC488-HL series of heavy duty, low PIM fiberglass collinear omni-directional antenna offers narrow beam width and higher gain for systems in trunking (806-869 MHz), cellular (824-896 MHz), uplink trunking (896-940 MHz) or other bands (694-746, 928-960, ... MHz).

Designed with 10 dBd gain (9.5 dBd with downtilt), the zero degree downtilt version of this antenna can be mounted in either an upright or inverted orientation (universal mount), while downtilt versions should be mounted upright only.

When ordering, please refer to the chart below for the model number. Downtilt configurations are subject to various list price. Inverted version also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Gain(dBd)	Downtilt
SC488-HF9LDF(D00)	10	0°
SC488-HF9LDF(D01)	9.5	1°
SC488-HF9LDF(D02)	9.5	2°
SC488-HF9LDF(D03)	9.5	3°
SC488-HF9LDF(D04)	9.5	4°
SC488-HF9LDF(D05)	9.5	5°
SC488-HF9LDF(D06)	9.5	6°



www.sinctech.com

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 International: +1 905 727 0165
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

### Electrical Specifications

Frequency Range	MHz	694 to 746
Connector		7/16 DIN-Female
Gain (nominal)	dBi (dBd)	12.1 (10) *1
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	6
Average Power Input (max)	W	750
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Electrical tilt (available)		0 to 6 degrees

### Mechanical Specifications

Width	mm (in)	73 (2.88)
Depth	mm (in)	73 (2.88)
Length/ Height	mm (in)	5080 (200)
Base pipe diameter	mm (in)	73 (2.88)
Base pipe mounting length	mm (in)	610 (24)
Radome material		fiberglass (UV protected)
Weight	kg (lbs)	15.75 (34.7)
Mounting Hardware (Included)		Clamp130 *2
Actual shipping weight	kg (lbs)	30.87 (68)
Shipping dimensions	mm (in)	5664x102x102 (223x4x4)
Mounting configurations		upright, inverted *3
Recommended For Offset Side Mount:		SMK-225-A3-T5 or SMK-225-A7-T5

### Environmental Specifications

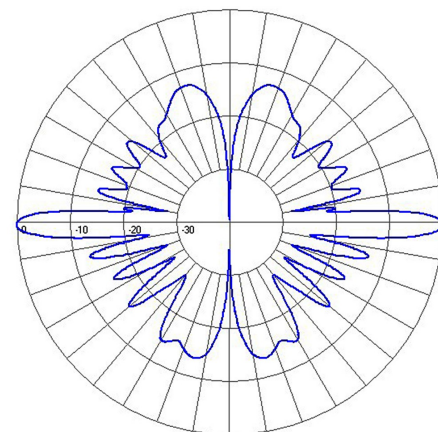
Temperature range	°C (°F)	-40 to +60 (-40 to +140)
Wind Loading Area (Flat Plate Equivalent)	m <sup>2</sup> (ft <sup>2</sup> )	0.21 (2.23)
Wind Loading Area (1/2" ice)	m <sup>2</sup> (ft <sup>2</sup> )	0.29 (3.13)
Rated wind velocity (no ice)	km/h (mph)	290 (180)
Rated wind velocity (1/2" radial ice)	km/h (mph)	242 (150)
Lateral thrust (100 mph No Ice)	N (lbs)	380.3 (85.5)
Bending moment (100 mph No Ice)	Nm (ft-lbs)	673.7 (499)
Tip deflection (100 mph No Ice)	degrees	3.05

### Notes

- \*1 : 9.5 dBd with downtilt
- \*2 : Qty 2
- \*3 : D00 version can be installed upright or inverted, downtilt versions can be installed upright only.

### Ordering Information

When ordering, please refer to the model list on the previous page for specific model numbers and downtilt configurations.



Elevation, 0°DT

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