

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
Telephone	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
E-mail	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)	dBd (dBi)	10 (12.1)	*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	in (mm)	2.88 (73)	
Depth	in (mm)	2.88 (73)	
Length/ Height	in (mm)	200 (5080)	
Base pipe diameter	in (mm)	2.88 (73)	
Base pipe mounting length	in (mm)	24 (610)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	34.7 (15.75)	
Mounting Hardware (Included)		Clamp130	*2
Actual shipping weight	lbs (kg)	68 (30.87)	
Shipping dimensions	in (mm)	223x4x4 (5664x102x102)	
Mounting configurations		upright, inverted	*3
Recommended For Offset Side Mount:		SMK-225-A3-T5 or SMK-225-A7-T5	

Environmental Specifications

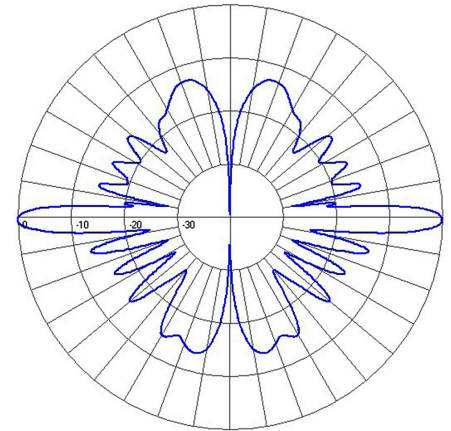
Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	2.23 (0.21)
Wind Loading Area (1/2" ice)	ft² (m²)	3.13 (0.29)
Rated wind velocity (no ice)	mph (km/h)	180 (290)
Rated wind velocity (1/2" radial ice)	mph (km/h)	150 (242)
Lateral thrust (100 mph No Ice)	lbs (N)	85.5 (380.3)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	499 (673.7)
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

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) 1487 84 28 19	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