

## SC488-HF1LNF(D04)

Collinear omni, 9.5 dBd, 4° DT, HD, 806-869 MHz

Also referred as: SRL480DHDLN\*1DT4

- 9.5 dBd gain with omni-directional pattern
- 4 degrees of downtilt
- Recommend using the SMK-325-A3 or SMK-325-A7 kit when side mounting.
- Compact lightweight heavy-duty fiberglass radome

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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) or uplink trunking (896-940 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).

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



www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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### Electrical Specifications

Frequency Range	MHz	806 to 869
Connector		N-Female
Gain (nominal)	dBd (dBi)	9.5 (11.6)
Input VSWR (max)		1.4:1
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	-138
Lightning protection		DC ground
Electrical tilt (available)		0 to 6 degrees

### Notes

\*1 : Qty 2

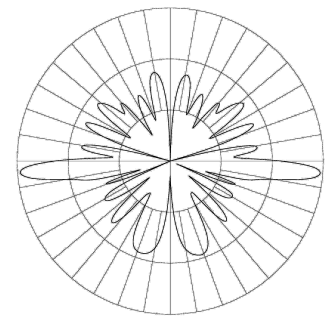
### Mechanical Specifications

Width	in (mm)	2.88 (73)
Depth	in (mm)	2.88 (73)
Length/ Height	in (mm)	190 (4826)
Base pipe diameter	in (mm)	2.88 (73)
Base pipe mounting length	in (mm)	24 (610)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	33.8 (15.35)
Mounting Hardware (Included)		Clamp130 *1
Actual shipping weight	lbs (kg)	66 (29.96)
Shipping dimensions	in (mm)	223x4x4 (5664x102x102)
Mounting configurations		upright
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)	2.11 (0.2)
Wind Loading Area (1/2" ice)	ft² (m²)	2.96 (0.27)
Rated wind velocity (no ice)	mph (km/h)	185 (298)
Rated wind velocity (1/2" radial ice)	mph (km/h)	155 (250)
Lateral thrust (100 mph No Ice)	lbs (N)	81 (360.3)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	420 (567)

### SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

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