

SC442D-HF1LDF(DXX-I30-G09) Dual port 9 dBd collinear antenna, 30 dB isolation, 746-869 MHz

- Nominal 9 dBd gain over entire 746-869 MHz range
- Dual port, heavy duty and 30 dB isolation
- Low PIM and 500 Watts power handling
- 0 to 10° electrical downtilt available

**Recommend SMK-345-A7 kit for offset side mounting. Available from Sinclair separately. Complies with EIA-3296F standard.**

Sinclair's new SC442D-HL PIM Certified series of antennas are broadband, dual feed, 9 dBd, heavy duty, omni-directional antennas that cover the entire 746-869 MHz frequency range. They are constructed to minimize Intermodulation products in multi-carrier systems. The SC442D-HL series of antennas are ideal for applications requiring a broad band antenna with limited tower space.

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

Model Number	Downtilt	CTM#
SC442D-HF1LDF(D00-I30-G09)	0°	005853
SC442D-HF1LDF(D01-I30-G09)	1°	006135
SC442D-HF1LDF(D02-I30-G09)	2°	006135
SC442D-HF1LDF(D03-I30-G09)	3°	006135
SC442D-HF1LDF(D04-I30-G09)	4°	006135
SC442D-HF1LDF(D05-I30-G09)	5°	006135
SC442D-HF1LDF(D06-I30-G09)	6°	006135
SC442D-HF1LDF(D07-I30-G09)	7°	006135
SC442D-HF1LDF(D08-I30-G09)	8°	006135
SC442D-HF1LDF(D09-I30-G09)	9°	006135
SC442D-HF1LDF(D10-I30-G09)	10°	006135

The D00 model (0°) can be mounted either upright or inverted, while downtilt models should be mounted in an upright position only.

### Application Notes

- Customer technical manual is 005853 for D00 model and 006135 for all downtilt models.



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet EPR 018719 Customer Tech Manual		SC442D-HF1LDF(DXX-I30-G09)	Issue: 2	Dated: 18-08-17 Dated: 14-09-16

#### Electrical Specifications

Frequency Range	MHz	746 to 869
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	9 (11.1)
VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	6
Average Power Input (max)	W	500
Isolation port to port	dB	30
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Main Beam Electrical Tilt (Downtilt)	degrees	0-10

#### Notes

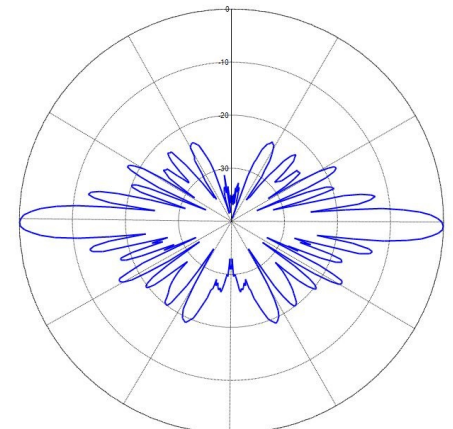
- \*1 : 1 degree increments
- \*2 : D00 model (0°) can be installed upright or inverted; downtilt models should be installed upright only.

#### Mechanical Specifications

Width	in (mm)	5 (127)
Depth	in (mm)	5 (127)
Length/ Height	in (mm)	251.5 (6388)
Base pipe diameter	in (mm)	5 (127)
Base pipe mounting length	in (mm)	26 (660)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	79 (35.87)
Weight iced (1/2" ice)	lbs (kg)	142 (64.47)
Mounting Hardware (Optional)		Clamp006C
Recommended For Offset Side Mount:		SMK-345-A7
Mounting configurations		upright, inverted
Actual shipping weight	lbs (kg)	119 (54.03)
Shipping dimensions	in (mm)	264x7x7 (6706x178x178)

#### Ordering Information

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



Vertical, 0° downtilt

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	5.24 (0.49)
Wind Loading Area (1/2" ice)	ft² (m²)	6.39 (0.59)
Rated wind velocity (no ice)	mph (km/h)	170 (274)
Rated wind velocity (1/2" radial ice)	mph (km/h)	150 (242)
Lateral Thrust (100 mph No Ice)	lbs (N)	208 (925.2)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	1610 (2173.5)
Tip deflection (100 mph No Ice)	degrees	2.2

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