

Antennas 700-1000 MHz Antennas SC420-HL - PIM Certified Series

SC420-HF3LDF(DXX) Collinear omni, 7-7.5 dBd, low PIM, HD, 890-940 MHz

· Medium-gain antenna covering 890-940 MHz

Also referred as: SRL420DHDLN*3

- · Light weight and compact design
- 0-6° electrical downtilt available
- · Zero degree downtilt model can be installed either inverted or upright

The SC420 omni-directional collinear antenna offers 7-7.5 dBd gain in an extremely rugged package. This lightweight antenna (only 12.5 lb excluding mounting clamps) is wind rated per EIA standards at 150 mph. Available for standard omni coverage or with downtilt pattern, this antenna is the most economical choice for 806-960 MHz systems where relatively low gain and wider beamwidth are acceptable.

The Zero degree downtilt model can be mounted either upright or inverted, downtilt models should be mounted in an upright position only.

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.

er	Downtilt	Gain
D00)	0°	7.5
D01)	1°	7
D02)	2°	7
D03)	3°	7
D04)	4°	7
	5°	7
D06)	6°	7
	D00) D01) D02) D03) D04) D05)	D00) 0° D01) 1° D02) 2° D03) 3° D04) 4° D05) 5°

Upright Position Position. (D00 model only)

Inverted

Application Notes

 Recommend SMK-325-A3 or SMK-325-A7 for Offset Side Mount. Available from Sinclair separately.

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
Product Specificatio EPR 016278		SC420-HF3LDF(DXX)	Issue: 12	Dated: 04-06-18 Dated: 04-06-18
Customer Tech Mar	nual 006189	Sinclair's commitment to product leadership may result in	improvement or change to this product	



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*1 : Gain is 7 dBd for downtilt version
*2 : Qty 2
*3 : D00 model (0°DT) can be installed upright or inverted; downtilt models upright only.

Mechanical Specifications

Electrical Specifications

Frequency Range

Input VSWR (max)

Vertical beamwidth (typ)

Lightning protection Electrical tilt (available)

Average Input Power (max)

Passive intermod. (2x20W, 3rd ord.)

Connector

Gain (nominal)

Polarization

Pattern

Width	in (mm)	2.5 (64)	
Depth	in (mm)	2.5 (64)	
Length	in (mm)	n) 102.5 (2604)	
Base pipe diameter	in (mm)	2.5 (64)	
Base pipe mounting length	in (mm) 18 (457)		
Radome material		fiberglass (UV protected)	
Weight	lbs (kg) 15 (6.81)		
Mounting Hardware (Included)		Clamp130	*2
Recommended For Offset Side Mount:		SMK-325-A3 or SMK-325-A7	
Mounting configurations		upright, inverted	*3
Estimated Shipping Weight	lbs (kg)	41 (18.61)	
Shipping dimensions	in (mm)	143x4x4 (3632x102x102)	

MHz

dBd (dBi)

degrees

W

dBc

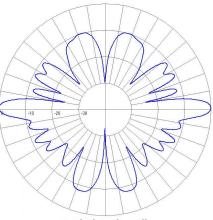
Environmental Specifications

°F (°C)	-40 to +140 (-40 to +60)
ft ² (m ²)	1.1 (0.1)
ft² (m²)	2.5 (0.23)
mph (km/h)	150 (242)
mph (km/h)	110 (177)
lbs (N)	41.6 (185)
ft-lbs (Nm)	108.9 (147)
	ft² (m²) ft² (m²) mph (km/h) mph (km/h) lbs (N)

Ordering Information

N-Female connector also available (PIM and power may vary).

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



Vertical, 0° downtilt

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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification EPR 016278 Customer Tech Manu		SC420-HF3LDF(DXX)	Issue: 12	Dated: 04-06-18 Dated: 04-06-18

890 to 940

7/16 DIN-Female

7.5 (9.6)

1.5:1

vertical

Omni-directional

11

750

-150

DC ground

0 to 6 degrees

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Notes *1 : Gain is 7 dBd for downt *2 : Qty 2