

SC6175DE SERIES Aviation band, 1 dBi, dual feed, HD, 118-138 & 225-400 MHz

- 2 in 1 antenna optimized for aviation ground-to-air application
- VHF section covers 118-138 MHz; UHF section covers 225-400 MHz
- Dual feed cables
- Rugged design ideal for harsh weather conditions

Fabricated using lightweight rugged components to insure easy installation while providing superior resistance to harsh environmental conditions. These antennas provide reliable omni-directional coverage.

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

Part#	Pigtail length (nominal)	Antenna length	Other features
SC6175DE	1'	98.5"	-
SC6175D-E3818E	3'	98.5"	-
SC6175D-E5109E	1'	102"	Gel coat and bird cap
SC6175D-E5117E	3'	102"	Gel coat and bird cap



With bird cap



With regular top cap

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

Electrical Specifications

Frequency Range 1 (F1)	MHz	118 to 138	
Bandwidth (F1)	MHz	20	
Frequency Range 2 (F2)	MHz	225 to 400	
Bandwidth (F2)	MHz	175	
Connector		N-Female	
Gain (nominal)	dBd (dBi)	-1.1 (1)	*1
Input VSWR (max)		2:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni-directional	
Vertical beamwidth (typ)	degrees	85	*2
Average Input Power (max)	W	100	
Number of ports		2	
Isolation port to port (typ)	dB	30	*3

Notes

*1 : ± 0.5 dB
 *2 : ± 10 degree
 *3 : ± 3

Ordering Information

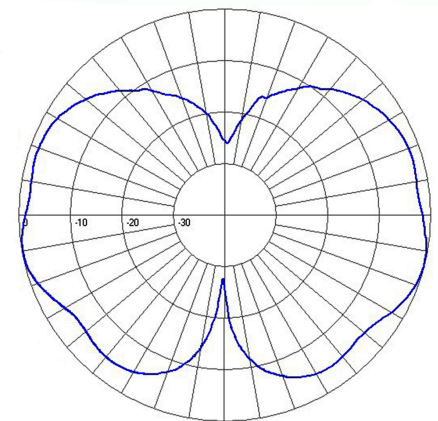
Mounting hardware included.

Mechanical Specifications

Width	in (mm)	4 (102)
Depth	in (mm)	4 (102)
Length	in (mm)	98.5 (2502)
Base pipe diameter	in (mm)	4 (102)
Base pipe mounting length	in (mm)	5.2 (132)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	27.5 (12.49)
Weight iced (1/2" ice)	lbs (kg)	48 (21.79)

Environmental Specifications

Temperature range	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	-40 to +158 (-40 to +70)
Wind Loading Area (Flat Plate Equivalent)	ft^2 (m^2)	1.59 (0.15)
Wind Loading Area (1/2" ice)	ft^2 (m^2)	2.05 (0.19)
Survival wind velocity (no ice)	mph (km/h)	408 (657)
Survival wind velocity (1/2" radial ice)	mph (km/h)	336 (541)
Rated wind velocity (no ice)	mph (km/h)	255 (411)
Rated wind velocity (1/2" radial ice)	mph (km/h)	210 (338)
Lateral Thrust (100 mph No Ice)	lbs (N)	61 (271.3)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	246 (332.1)
Tip deflection (100 mph No Ice)	degrees	0.18



Elevation

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