

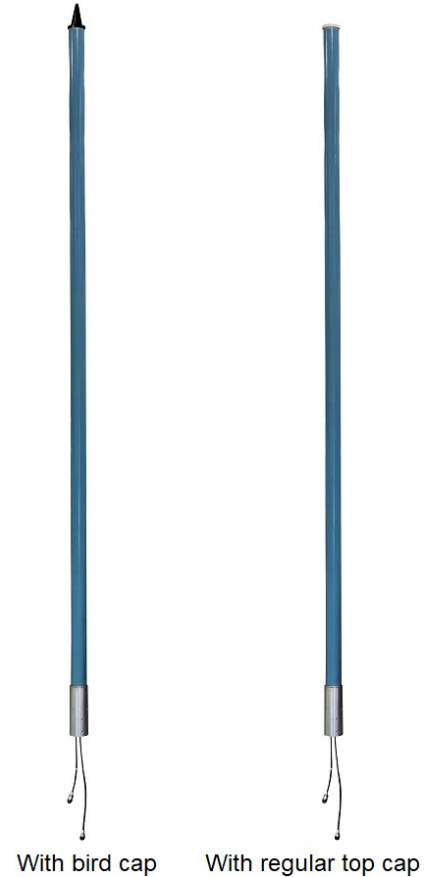
SC6172DE SERIES Aviation band, 1 dBi, Dual port, HD, 118-138 MHz

- 2 in 1 antenna optimized for aviation ground-to-air application
- Heavy duty construction for long life in harsh environment
- Extended temperature range for harsh environment and long life
- Optional bird cap and gel coating

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
SC6172D-E3818E	3'	150"	-
SC6172D-E5755E	3'	155"	Bird cap
SC6172D-E5106E	3'	155"	Gel coat and bird cap
SC6172D-E3023E	1'	155"	Bird cap
SC6172D-E5105E	1'	155"	Gel coat and bird cap
SC6172DE	1'	155"	-



With bird cap With regular top cap

Image is for illustration purposes only & may not be an exact representation

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
Product Specification Sheet		SC6172DE SERIES	Issue: 2	Dated: 12-11-21

Electrical Specifications

Frequency Range	MHz	118 to 138	
Bandwidth	MHz	20	
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	75	*2
Average Input Power (max)	W	250	*3
Number of ports		2	
Isolation port to port (Typ)	dB	30	*4
Lightning protection		DC ground	

Notes

- *1 : ±1 dB
- *2 : ±10%
- *3 : Each port
- *4 : ±4dB

Mechanical Specifications

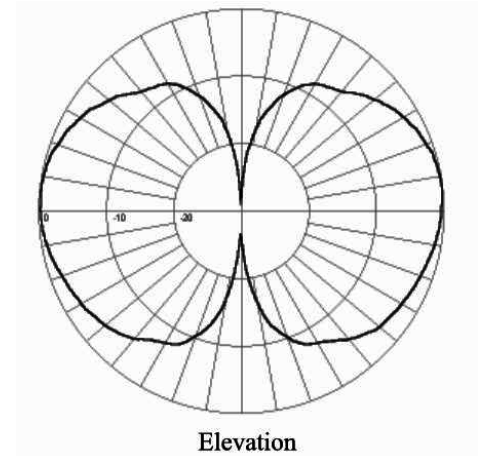
Radome Diameter	in (mm)	3.5 (89)
Base pipe diameter	in (mm)	4 (102)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	38 (17.25)
Weight iced (1/2" ice)	lbs (kg)	69 (31.33)
Mounting configurations		upright
Actual shipping weight	lbs (kg)	70 (31.78)
Shipping dimensions	in (mm)	168x6x6 (4267x152x152)

Environmental Specifications

Temperature range	°F (°C)	-67 to +140 (-55 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft ² (m ²)	2.42 (0.22)
Wind Loading Area (1/2" ice)	ft ² (m ²)	4.62 (0.43)
Rated wind velocity (no ice)	mph (km/h)	265 (427)
Rated wind velocity (1/2" radial ice)	mph (km/h)	225 (362)
Lateral Thrust (100 mph No Ice)	lbs (N)	96 (427)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	550 (742.5)
Tip deflection (100 mph No Ice)	degrees	0.61

Ordering Information

Mounting hardware included.



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