

SD212-SF1P2S(XX)(D00) 2 dipole, 5.0 dBd, bi-directional, 118-138 MHz

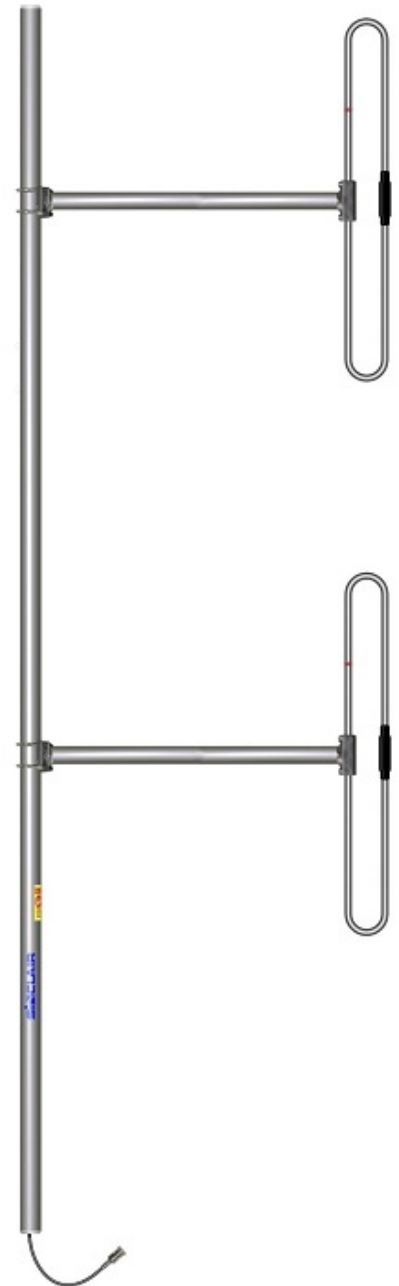
- Covers the entire 118-138 MHz frequency range
- 5.0 dBd gain with bi-directional pattern
- 300 Watt power handling
- Can be top or side mounted

The SD212 series is a 2-bay exposed dipole antenna designed for applications where moderate gain is required. These premium-quality antennas are well suited to public safety applications.

The design of these antennas provides for coverage from 118 to 225 MHz in 3 sub bands, 118-138 MHz for civil aviation applications, 138-174 MHz for private mobile networks, and public safety, and 220-225 MHz for transportation networks.

The connector is terminated on a 1 foot cable.

Model number	Connector
SD212-SF1P2SNF(D00)	N-female
SD212-SF1P2SNM(D00)	N-male



Antenna may not appear exactly as shown

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

#### Electrical Specifications

Frequency Range	MHz	118 to 138
Bandwidth	MHz	36
Gain (nominal)	dBd (dBi)	5 (7.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	$\Omega$	50
Pattern		Bi-directional
Vertical beamwidth (typ)	degrees	34
Average Input Power (max)	W	300
Grounding	All metal parts DC-grounded	

#### Notes

- \*1 : Qty 2 required  
\*2 : Not included, available separately

#### Mechanical Specifications

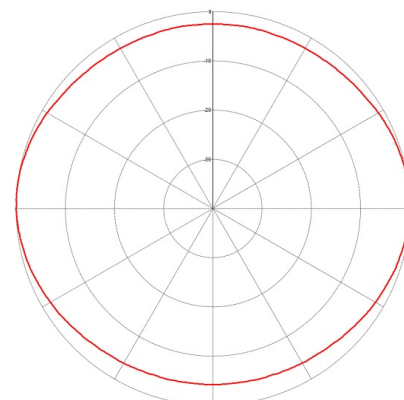
Width	in (mm)	46.75 (1187)
Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	144 (3658)
Base pipe diameter	in (mm)	1.9 (48)
Base pipe mounting length	in (mm)	36 (914)
Radiating element material		aluminum
Base pipe material		aluminum
Weight	lbs (kg)	22.5 (10.22)
Weight iced (1/2" ice)	lbs (kg)	61 (27.69)
Mounting Hardware (Optional)	Clamp005, Clamp015, or Clamp130	
Mounting configurations	Top mount or side mount	
Kit for Offset Side Mount (straight tower leg)	SMK-125-A3 or SMK-125-A7	
Actual shipping weight	lbs (kg)	51 (23.15)
Shipping dimensions	in (mm)	148x48x6 (3759x1219x152)

#### Ordering Information

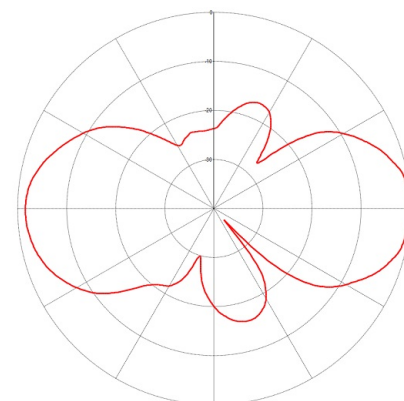
Clamps must be ordered separately.

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	2.5 (0.23)
Wind Loading Area (1/2" ice)	ft² (m²)	4.4 (0.41)
Rated wind velocity (no ice)	mph (km/h)	120 (193)
Rated wind velocity (1/2" radial ice)	mph (km/h)	85 (137)
Lateral Thrust (100 mph No Ice)	lbs (N)	96 (427)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	125 (168.8)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	340 (459)
Tip deflection (100 mph No Ice)	degrees	1.9



Horizontal



Vertical

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com