

SD212-SF1P2SNM(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 (Universal mount)

**Recommend SMK-125-A3 or SMK-125-A7 for Offset Side Mount.
Available from Sinclair separately.**

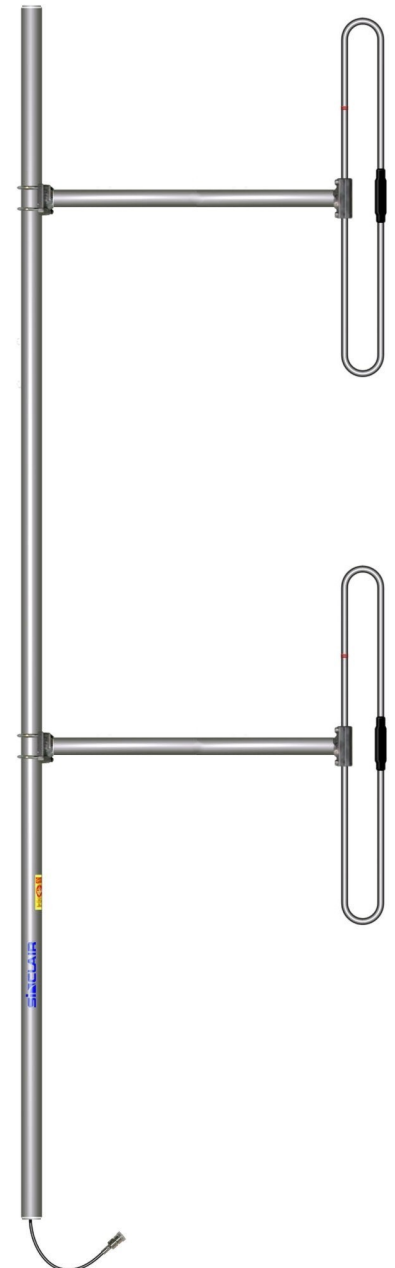
The SD212 series is a 2-bay exposed dipole antenna designed for applications where moderate gain is required. These premium-quality antennas are well suited to public safety applications.

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 standard connector offered is N male which is terminated on a 1 foot cable.

Application Notes

- The SD212 is available with a bi-directional pattern (P2) providing 5.0 dBd gain or with a offset pattern (P4) providing a 5.5 dBd gain (gain varies slightly with frequency).
- Sub bands:
118-138 MHz (F1)
138-174 MHz (F2)
190-225 MHz (F3)



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Product Specification Sheet EPR 017319 Customer Tech Manual 005130		SD212-SF1P2SNM(D00)	Issue: 5	Dated: 14-12-16 Dated: 04-05-15

Electrical Specifications

Frequency Range	MHz	118 to 138	
Bandwidth	MHz	20	
Connector		N-Male	*1
Gain (nominal)	dBd (dBi)	5 (7.1)	
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Bi-directional	
Vertical beamwidth (typ)	degrees	34	
Average Power Input (max)	W	300	
Lightning protection		DC ground	
Electrical tilt (available)		0,2,4,6,8, or 10 degrees	

Notes

*1 : Also available in N-Female

*2 : Qty 2 required

Mechanical Specifications

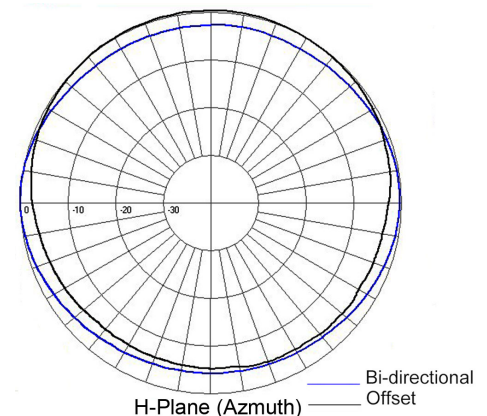
Width	in (mm)	46.75 (1187)	
Depth	in (mm)	3 (76)	
Length/ Height	in (mm)	144 (3658)	
Base pipe diameter	in (mm)	1.9 (48)	
Base pipe mounting length	in (mm)	45 (1143)	
Radiating element material		aluminum	
Base pipe material		aluminum	
Weight	lbs (kg)	24 (10.9)	
Weight iced (1/2" ice)	lbs (kg)	61 (27.69)	
Mounting Hardware (Optional)		Clamp005, Clamp015, or Clamp130	*2
Actual shipping weight	lbs (kg)	51 (23.15)	
Shipping dimensions	in (mm)	148x48x6 (3759x1219x152)	
Mounting configurations		Universal Mount	
Recommended For Offset Side Mount:		SMK-125-A3 or SMK-125-A7	

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)	
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	2.49 (0.23)	
Wind Loading Area (1/2" ice)	ft² (m²)	4.37 (0.41)	
Rated wind velocity (no ice)	mph (km/h)	140 (225)	
Rated wind velocity (1/2" radial ice)	mph (km/h)	95 (153)	
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)	288 (388.8)	
Tip deflection (100 mph No Ice)	degrees	1.52	

Ordering Information

Clamps must be ordered separately.



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