

SD212-SF1P4LDF(D00) 2 dipole, 5 dBd, low PIM, offset, 118-138 MHz

- 2-bay dipole antenna that covers the 118-138MHz band
- 5 dBd gain with offset pattern
- 300W 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-L series is an extremely rugged 2-bay exposed dipole antenna designed for applications where moderate gain is required and Passive Intermodulation interference (PIM) is a consideration. These premium-quality antennas are well suited for public safety applications.

The SD212-L provides industry leading -150 dBc Passive Intermodulation (PIM) performance.

### Application Notes

- The SD212-L is a rugged low-PIM, medium gain dipole antenna designed to provide coverage for public safety applications. The SD212-L is especially well suited to multicoupled applications where PIM is a consideration.
- 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		SD212-SF1P4LDF(D00)	Issue: 4	Dated: 05-06-17
EPR	017876			Dated: 04-05-15
Customer Tech Manual	005849	Sinclair's commitment to product leadership may result in improvement or change to this product Copyright © Sinclair Technologies		

#### Electrical Specifications

Frequency Range	MHz	118 to 138
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	5 (7.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Offset
Horizontal beamwidth (typ)	degrees	210
Vertical beamwidth (typ)	degrees	34
Average Power Input (max)	W	300
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Electrical tilt (available)		0,2,4,6,8, or 10 degrees

#### Notes

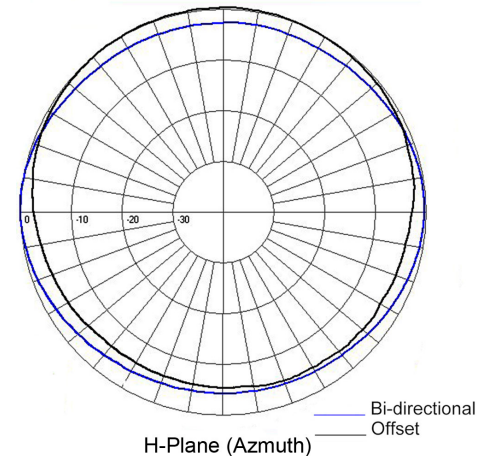
- \*1 : 0.5" radial ice
- \*2 : Qty 2

#### Mechanical Specifications

Width	in (mm)	25 (635)
Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	120 (3048)
Base pipe diameter	in (mm)	1.9 (48)
Radiating element material		aluminum
Base pipe material		aluminum
Weight	lbs (kg)	20.5 (9.31)
Weight iced (1/2" ice)	lbs (kg)	51.9 (23.56) *1
Mounting Hardware (Optional)		Clamp005, Clamp015, or Clamp130 *2
Recommended For Offset Side Mount:		SMK-125-A3 or SMK-125-A7
Mounting configurations		Universal Mount
Actual shipping weight	lbs (kg)	45 (20.43)
Shipping dimensions	in (mm)	123x6x27 (3124x152x686)

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.97 (0.18)
Wind Loading Area (1/2" ice)	ft² (m²)	3.51 (0.33)
Rated wind velocity (no ice)	mph (km/h)	150 (242)
Rated wind velocity (1/2" radial ice)	mph (km/h)	95 (153)
Lateral Thrust (100 mph No Ice)	lbs (N)	72 (320.3)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	46 (62.1)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	165 (222.8)



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