

SD212-HF1P2LDF(D00) 2 dipole, 4.5 dBd, low PIM, bi-directional, HD, 118-138 MHz

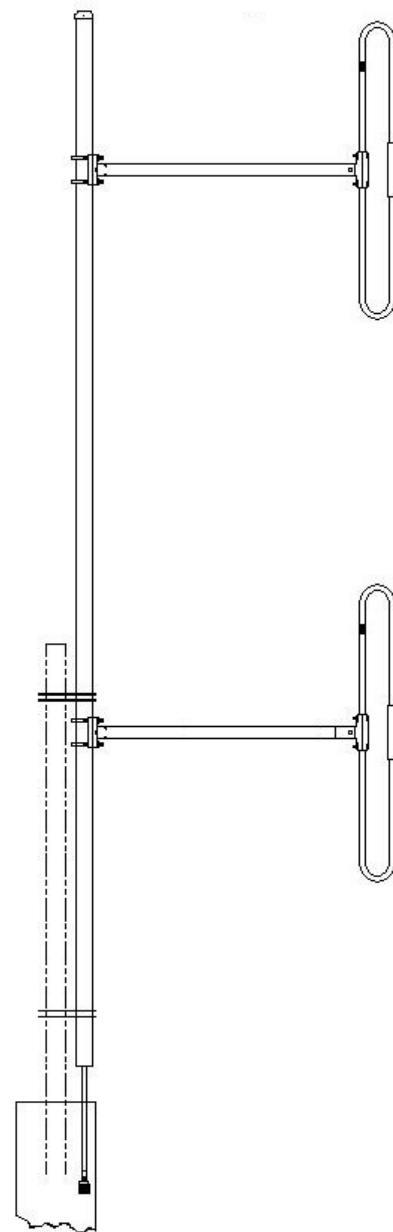
- 2-bay dipole antenna that covers the 118-138 MHz band
- 4.5 dBd gain with bi-directional pattern
- 300W power handling
- Can be top or side mounted (Universal mount)

Recommend SMK-425-A3-T3 or SMK-425-A7-T3 for Offset Side Mount.
Available from Sinclair separately.

The SD212-HL series is a heavy duty, low intermodulation, extremely rugged 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 between 118 to 225 MHz in 3 sub bands, 118-138 MHz for civil aviation applications, 138-174 MHz for private mobile networks, public safety and public security and 220-225 MHz for transportation networks.

The SD212-HL is also low PIM utilizing industry-leading designs that offer high gain, excellent bandwidth and high reliability. The standard connector offered is 7/16" DIN female.



Antenna may not appear exactly as picture

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

Electrical Specifications

Frequency Range	MHz	118 to 138
Bandwidth	MHz	20
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	4.5 (6.6)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Bi-directional
Vertical beamwidth (typ)	degrees	36
Average Power Input (max)	W	300
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground

Notes

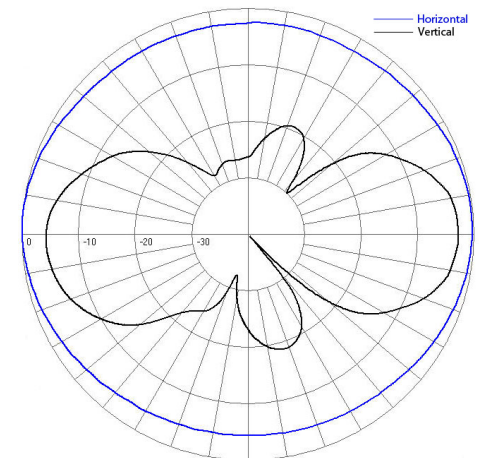
*1 : Qty 2

Mechanical Specifications

Width	in (mm)	50.12 (1273)
Depth	in (mm)	4.75 (121)
Length/ Height	in (mm)	144 (3658)
Base pipe diameter	in (mm)	2.38 (60)
Radiating element material		aluminum
Base pipe material		aluminum
Weight	lbs (kg)	36 (16.34)
Weight iced (1/2" ice)	lbs (kg)	77 (34.96)
Mounting Hardware (Optional)		Clamp005, Clamp015, or Clamp130
Actual shipping weight	lbs (kg)	58 (26.33)
Shipping dimensions	in (mm)	132x54x6 (3353x1372x152)
Mounting configurations		Universal Mount
Recommended For Offset Side Mount:		SMK-425-A3-T3 or SMK-425-A7-T3

Ordering Information

Clamps must be ordered separately



Environmental Specifications

Temperature range	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft^2 (m^2)	2.84 (0.26)
Wind Loading Area (1/2" ice)	ft^2 (m^2)	4.63 (0.43)
Rated wind velocity (no ice)	mph (km/h)	185 (298)
Rated wind velocity (1/2" radial ice)	mph (km/h)	150 (242)
Lateral thrust (100 mph No Ice)	lbs (N)	104 (462.6)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	155 (209.3)
Tip deflection (100 mph No Ice)	degrees	0.4

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