

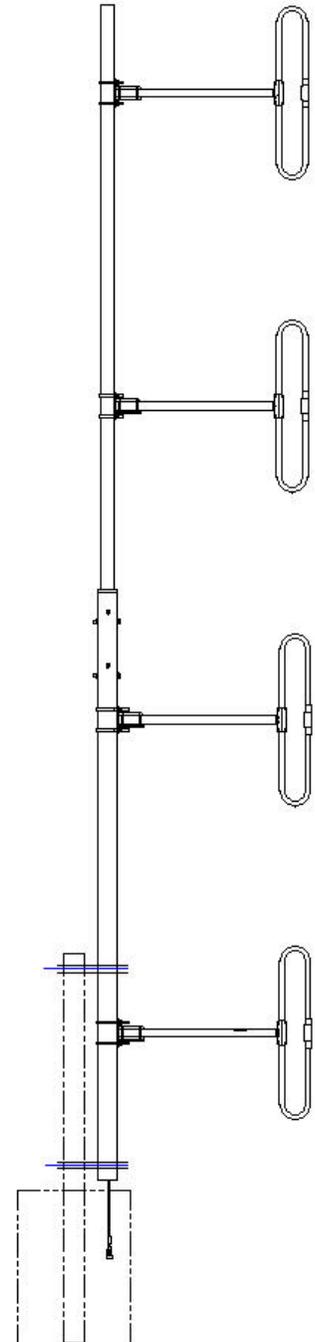
SD214-HF2P4LDF(D00B) 4 dipole, 7.5 dBd, low PIM, offset, HD, 138-174 MHz

- -150dBc PIM rating, covering the entire 138-174 MHz frequency range
- 7.5 dBd gain offset pattern
- Top mount, Heavy duty with 300W power handling

The SD214-HL series is a heavy duty, low intermod, extremely rugged 4-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 SD214-HL is also a high-performance low PIM dipole antenna which uses industry-leading designs that offer high gain, excellent bandwidth and high reliability. The standard connector offered is 7/16 DIN female.



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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Electrical Specifications

Frequency Range	MHz	138 to 174	
Bandwidth	MHz	36	
Connector		7/16 DIN-Female	
Gain (nominal)	dBd (dBi)	7.5 (9.6)	
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Offset	
Horizontal beamwidth (typ)	degrees	180	*1
Vertical beamwidth (typ)	degrees	18	
Average Power Input (max)	W	300	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
Lightning protection		DC ground	
Electrical tilt (available)		0,2,4,6, or 8 degrees	

Notes

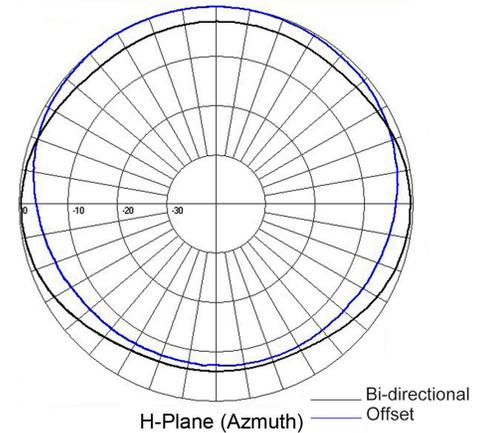
- *1 : Typical
- *2 : Qty 2

Mechanical Specifications

Width	in (mm)	25.8 (655)	
Depth	in (mm)	5.8 (147)	
Length/ Height	in (mm)	240 (6096)	
Base pipe diameter	in (mm)	4 (102)	
Radiating element material		aluminum	
Base pipe material		aluminum	
Weight	lbs (kg)	111 (50.39)	
Weight iced (1/2" ice)	lbs (kg)	195 (88.53)	
Mounting Hardware (Optional)		Clamp006C	*2
Actual shipping weight	lbs (kg)	142 (64.47)	
Shipping dimensions	in (mm)	246x30x6 (6248x762x152)	
Mounting configurations		top mount	

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	5.72 (0.53)
Wind Loading Area (1/2" ice)	ft² (m²)	8.93 (0.83)
Rated wind velocity (no ice)	mph (km/h)	195 (314)
Rated wind velocity (1/2" radial ice)	mph (km/h)	155 (250)
Lateral thrust (100 mph No Ice)	lbs (N)	214 (951.9)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	79 (106.7)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	1460 (1971)
Tip deflection (100 mph No Ice)	degrees	0.41



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