

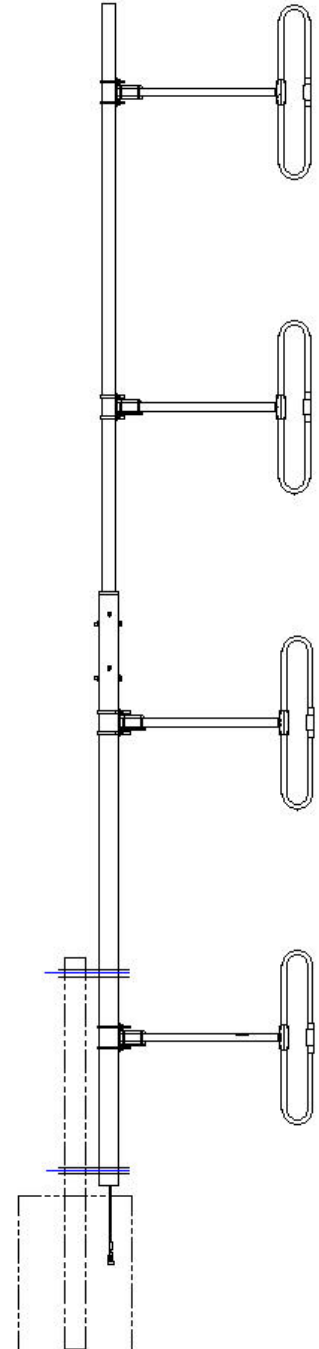
SD214-HF3P4LDF(D00B) 4 dipole, 7.5 dBd, low PIM, offset, HD, 190-225 MHz

- -150dBc PIM rating, covering the 190-225 MHz frequency range
- 7.5 dBd gain with offset pattern
- Top mount, Heavy duty with 250W power handling
- Can be bottom (top) or side mounted (Universal Mount)

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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Electrical Specifications

Frequency Range	MHz	190 to 225
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	210
Vertical beamwidth (typ)	degrees	18
Average Power Input (max)	W	250
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Electrical tilt (available)		0,2,4,6, or 8 degrees

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)	95 (43.13)	
Weight iced (1/2" ice)	lbs (kg)	215 (97.61)	*1
Mounting Hardware (Optional)		Clamp006C	*2
Actual shipping weight	lbs (kg)	135 (61.29)	
Shipping dimensions	in (mm)	247x44x6 (6274x1118x152)	
Mounting configurations		side mount	

Environmental Specifications

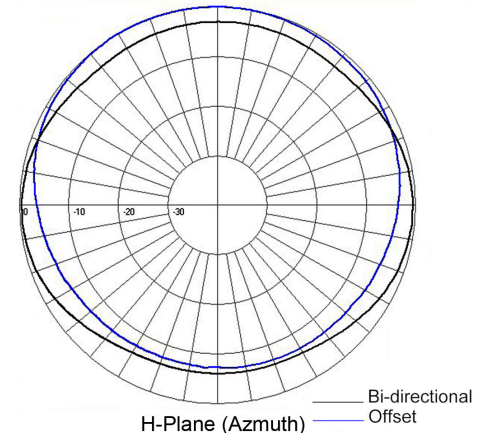
Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	6.29 (0.58)
Wind Loading Area (1/2" ice)	ft² (m²)	9.94 (0.92)
Rated wind velocity (no ice)	mph (km/h)	195 (314)
Rated wind velocity (1/2" radial ice)	mph (km/h)	155 (250)
Lateral thrust (100 mph No Ice)	lbs (N)	234 (1040.8)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	191 (257.9)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	1331 (1796.9)
Tip deflection (100 mph No Ice)	degrees	0.5

Notes

- *1 : 0.5" radial ice
- *2 : Qty 2. For side mount, Qty 3 of either Clamp147 or Clamp015

Ordering Information

Clamps must be ordered separately.
 Note: For bottom mount, recommend Qty 2- Clamp006C.
 For Side, Qty 3 of either Clamp147 or Clamp015



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