

SD318-HF2P4LDF(D00) 8 dipole, 10.5 dBd, offset, low PIM, HD, 406-470 MHz

Also referred as: SD318-HF2P4LDF

- 10.5 dBd gain with offset pattern, industry-leading -150 dBc PIM rating
- Heavy duty wind ratings, 300 W power handling
- 0, 2, 4, 6, 8, or 10 degrees electrical downtilt available
- Can be top or side mounted (universal mount)

**Recommend SMK-135-A3-T3 or SMK-135-A7-T3 for Offset Side Mount.  
Available from Sinclair separately.**

The SD318-HL series is an extremely rugged 8-bay, low PIM exposed dipole antenna designed for applications where high gain is required. Due to its wide band and high power handling capability, this antenna is ideal for UHF trunking applications or multi-channel operation. With its industry-leading -150 dBc PIM rating, the probability of interference caused by intermodulation is low. The reliability and durability of this antenna make it well suited for mission critical applications such as public safety.

The design of these antennas provides coverage between 370 to 512 MHz in 3 sub-bands, 370-430 MHz, 406-470 MHz and 450-512 MHz for private mobile networks and public safety networks.

The standard connector offered is 7/16 DIN-Female.



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
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### Electrical Specifications

Frequency Range	MHz	406 to 470
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	10.5 (12.6)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Offset
Horizontal beamwidth (typ)	degrees	190
Vertical beamwidth (typ)	degrees	9
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
Front-to-back ratio (typ)	dB	9

### Notes

\*1 : Qty 2

### Mechanical Specifications

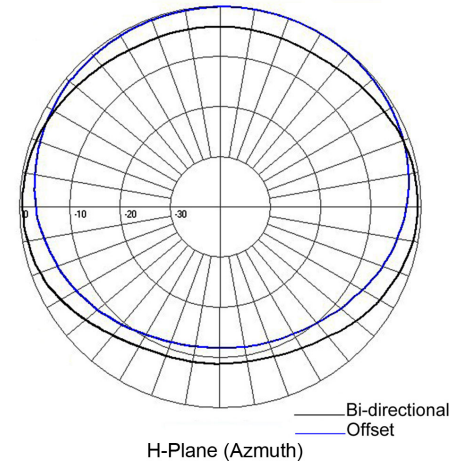
Width	in (mm)	12.4 (315)
Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	240 (6096)
Base pipe diameter	in (mm)	2.38 (60)
Base pipe mounting length	in (mm)	120 (3048)
Weight	lbs (kg)	56 (25.42)
Weight iced (1/2" ice)	lbs (kg)	78 (35.41)
Mounting Hardware (Optional)		Clamp005, Clamp015, Clamp130, or Clamp125U *1
Actual shipping weight	lbs (kg)	85 (38.59)
Shipping dimensions	in (mm)	247x6x14 (6274x152x356)
Mounting configurations		Universal Mount
Recommended For Offset Side Mount:		SMK-135-A3-T3 or SMK-135-A7-T3

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	4.42 (0.41)
Wind Loading Area (1/2" ice)	ft² (m²)	7.25 (0.67)
Rated wind velocity (no ice)	mph (km/h)	150 (242)
Rated wind velocity (1/2" radial ice)	mph (km/h)	115 (185)
Lateral thrust (100 mph No Ice)	lbs (N)	144 (640.5)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	29 (39.2)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	550 (742.5)
Tip deflection (100 mph No Ice)	degrees	1.2

### Ordering Information

Clamps must be ordered separately



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