

SD314-HL- PIM Certified 4 dipole antenna, 7.0/7.5 dBd gain, low PIM, HD, 370-512 MHz

- · Industry-leading -150 dBc PIM rating, covering 370-512 MHz in 3 band splits
- 7.0 dBd gain elliptical (bi-directional) pattern (1/2 wave), 7.5 dBd in offset pattern (1/4 wave)
- · Heavy duty wind rating and 300W power handling

The SD314-HL series is an 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/public security applications.

The design of these antennas provides for coverage between 370 to 512 MHz in 2 sub bands, 370-460 MHz and 406-512 MHz for private mobile networks, public safety and public security networks.

The SC314-HL series is also a low intermod antenna, with a PIM rating of -150 dBc, the best in the industry.

The standard connector offered is 7/16" DIN female.

Clamps are not included but recommended is the set of #5 clamps.

Application Notes

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- The SD314-L is a rugged low-PIM, higher-gain dipole antenna designed to provide broad coverage or superior building penetration in urban environments for public safety and public security applications. The SD314-L is especially well suited to multicoupled applications where PIM is a consideration.
- The SD314-L series covers 370-512 MHz in 3 band splits: 370-430 MHz (F1: for TETRA applications), 406-470 MHz (F2, for APCO P-25 applications), 450-512 MHz (F3).
- SD314-HF2P4LDF specifications are shown at the series level

	LDF specifications are s	hown at the series level		
OS Model	Description		Pattern	
SD314-HF1P2LDF	7 dBd gain, ellipt 370-430 MHz	tical, HD, 7/16 DIN (female) connector,	Bi-directional	
SD314-HF1P2LDF SD314-HF1P4LDF	7.5 dBd gain, off 370-430 MHz	set, HD, 7/16 DIN (female) connector,	Offset	
SD314-HF2P2LDF	7 dBd gain, ellipt 406-470 MHz	7 dBd gain, elliptical, HD, 7/16 DIN (female) connector,		
SD314-HF2P4LDF	7.0 dBd gain, off 406-470 MHz	set, HD, 7/16 DIN (female) connector,	Offset	
SD314-HF3P2LDF	7 dBd gain, ellipt 450-512 MHz	tical, HD, 7/16 DIN (female) connector,	Bi-directional	
SD314-HF3P4LDF	7.5 dBd gain, off 450-512 MHz	set, HD, 7/16 DIN (female) connector,	Offset	
		Australian Representatives - ROJO Tel: 02 9829 1555 E: sales@rojone.com.au	· ·	
Region	United States	Europe, Middle East and Africa	Caribbean and Latin A	
Telenhana	10 4 4 900 000 0075	Internetional: 144 (0) 1222 42.02.02	Internetionals 14,005,70	



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) 1223 42 03 03	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
Product Specificatio	n Sheet	SD314-HL- PIM Certified		Dated: 05-02-10

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Antennas UHF and Tetra Antennas SD314-HL- PIM Certified Series

	SD314-HF1P2LDF	SD314-HF1P4LDF	SD314-HF2P2LDF	SD314-HF2P4LDF
Electrical Specifications				
Frequency Range, MHz	370 to 430	370 to 430	406 to 470	406 to 470
Gain (nominal), dBd (dBi)	7 (9.1)	7.5 (9.6)	7 (9.1)	7 (9.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical	vertical
Pattern	Bi-directional	Offset	Bi-directional	Offset
Horizontal beamwidth, degrees		200		180
Vertical beamwidth, degrees	15	16	15	16
Average Power Input (max), W	300	300	300	300
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-150	-150	-150
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	60	60	64	64

Mechanical Specifications

Connector	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	120.1 (3051)	120.3 (3056)	120.1 (3051)	120.1 (3051)
Width, in (mm)	18.5 (470)	11.9 (301)	18.5 (470)	11 (279)
Depth, in (mm)	3.5 (89)	3.5 (89)	3.5 (89)	3.5 (89)
Base pipe diameter, in (mm)	2.4 (60)	2.4 (60)	1.9 (48)	1.9 (48)
Base pipe mounting length, in (mm)	26 (660)	26 (660)	26 (660)	26 (660)
Weight, Ibs (kg)	25.3 (11.5)	23.1 (10.5)	13.5 (6.1)	25.1 (11.4)
Weight iced, lbs (kg)	39.9 (18.1)	34.5 (15.7)	17.1 (7.8)	15.3 (6.9)
Actual Shipping weight, lbs (kg)	43 (19.5)	37 (16.8)	40 (18.2)	30 (13.6)
Shipping dimensions, in (mm)	125x22x5 (3175x559x127)	125x16x5 (3175x406x127)	118x4x20 (2997x102x508)	118x4x20 (2997x102x508)
Mounting hardware	clamps not supplied	clamps not supplied	clamps not supplied	clamps not supplied

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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification	n Sheet	SD314-HL- PIM Certified		Dated: 05-02-10



Antennas UHF and Tetra Antennas SD314-HL- PIM Certified Series

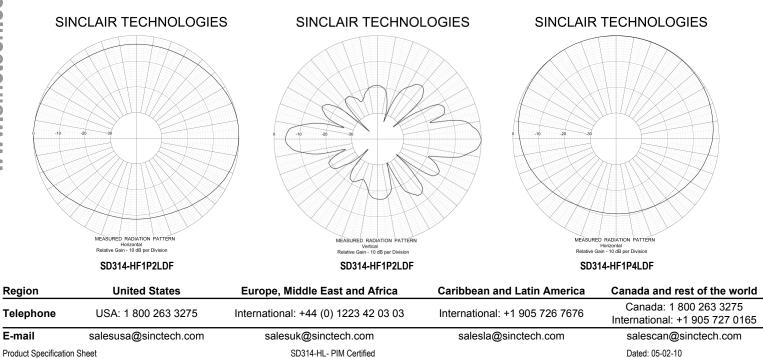
SD314-HF3P2LDF

SD314-HF3P4LDF

Electrical Specifications			
Frequency Range, MHz	450 to 512	450 to 512	
Gain (nominal), dBd (dBi)	7 (9.1)	7.5 (9.6)	
Input VSWR (max)	1.5:1	1.5:1	
Polarization	vertical	vertical	
Pattern	Bi-directional	Offset	
Horizontal beamwidth, degrees		200	
Vertical beamwidth, degrees	15	16	
Average Power Input (max), W	300	300	
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-150	
Lightning protection	DC ground	DC ground	
Bandwidth, MHz	62	62	

Mechanical Specifications

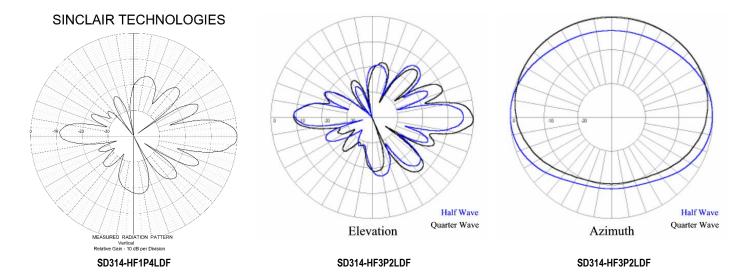
Connector	7/16 DIN (female)	7/16 DIN (female)	
Length/ Height, in (mm)	120.1 (3051)	120.1 (3051)	
Width, in (mm)	16.3 (414)	11 (279)	
Depth, in (mm)	3.5 (89)	3.5 (89)	
Base pipe diameter, in (mm)	1.9 (48)	1.9 (48)	
Base pipe mounting length, in (mm)	26 (660)	26 (660)	
Weight, Ibs (kg)	13.3 (6)	13 (5.9)	
Weight iced, lbs (kg)	16.6 (7.5)	15.6 (7.1)	
Actual Shipping weight, lbs (kg)	40 (18.2)	30 (13.6)	
Shipping dimensions, in (mm)	118x4x20 (2997x102x508)	118x4x20 (2997x102x508)	
Mounting hardware	clamps not supplied	clamps not supplied	



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