

< Home < Family SD210-HL - PIM Certified 1 dipole antenna, 1.5/2.0 dBd gain, low PIM, HD, 118-225 MHz

- · Industry-leading -150 dBc PIM rating, covers 118-225 MHz in 3 band splits
- 1.5 dBd gain at elliptical (bi-directional) pattern (1/2 wave) and offset pattern (1/4 wave)
- · Heavy duty: 255 mph/346 kph rated wind velocity

The SD210-HL series of antennas is unique in its high efficiency and exceptionally wide bandwidth, covering the frequency ranges of 118-137 or 138-174 MHz at a VSWR of 1.5:1 or better. Because of its bandwidth, the SD210-HL series is perfectly suited for multicoupled systems.

The SD210-HL is also high-performance low PIM antenna which use industry-leading designs that offers excellent bandwidth and high reliability, and is of heavy duty construction, able to withstand wind speads of greater than 150 mph with no ice.

Application Notes

SD210-HF2P4LDF specifications are shown at the series level

Model	Description	Pattern
SD210-HF1P2LDF SD210-HF1P4LDF	1.5 dBd gain, 7/16 DIN (female) connector, 118-138 MHz 2.0 dBd gain, offset, 7/16 DIN (female), 118-138 MHz	Bi-directional Offset
SD210-HF2P2LDF	1.5 dBd gain, elliptical, 7/16 DIN (female) connector,	Bi-directional
SD210-HF2P4LDF	2.0 dBd gain, offset, 7/16 DIN (female) connector, 138-174 MHz	Offset
SD210-HF3P2LDF	1.5 dBd gain, elliptical, 7/16 DIN (female) connector,	Bi-directional
SD210-HF3P2LDF(D00B)	1.5 dBd gain, elliptical, 7/16 DIN (female) connector,	Bi-directional
SD210-HF3P4LDF	2.0 dBd gain, offset, 7/16 DIN (female) connector, 190-225 MHz	Offset
SD210-HF3P4LDF(D00B)		Offset





Australian Representatives ROJONE, PTY LTD.

Tel: 02 9829 1555 E: sales@rojone.com.au www.rojone.com.au

Standard SD210-L model shown.

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 Specification	on Sheet	SD210-HL - PIM Certified		Dated: 05-02-10

Shipping dimensions, in (mm)

Mounting hardware



SD210-HF1P2LDF

63x4x42 (1600x102x1067)

Clamps not supplied

Antennas Low Band, Aviation, and VHF Antennas SD210-HL - PIM Certified Series

SD210-HF2P2LDF

63x4x42 (1600x102x1067)

Clamps not supplied

SD210-HF2P4LDF

63x4x42 (1600x102x1067)

Clamps not supplied

Electrical Specifications				
Frequency Range, MHz	118 to 138	118 to 138	138 to 174	138 to 174
Gain (nominal), dBd (dBi)	1.5 (3.6)	2 (4.1)	1.5 (3.6)	2 (4.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical	vertical
Impedance, Ω				
Pattern	Bi-directional	Offset	Bi-directional	Offset
Horizontal beamwidth, degrees		210		180
Vertical beamwidth, degrees	68	68	68	68
Average Power Input (max), W	200	300	200	300
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-150	-150	-150
Lightning protection	DC ground	DC ground	DC ground	DC ground
Mechanical Specifications				
Connector	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	60 (1524)	60 (1524)	60 (1524)	60 (1524)
Width, in (mm)	42.1 (1069)	24.1 (612)	42.1 (1069)	24.1 (612)
Depth, in (mm)	3 (76)	3.5 (89)	3 (76)	3.5 (89)
Base pipe diameter, in (mm)	1.9 (48)	1.9 (48)	1.9 (48)	1.9 (48)
Base pipe mounting length, in (mm)				
Weight, lbs (kg)	13.3 (6)	13.3 (6)	13.3 (6)	13.3 (6)
Weight iced, lbs (kg)	56.1 (25.5)	49 (22.2)	56.1 (25.5)	49 (22.2)
Actual Shipping weight, lbs (kg)	20 (9.1)	20 (9.1)	31 (14.1)	20 (9.1)

63x4x42 (1600x102x1067)

Clamps not supplied

SD210-HF1P4LDF

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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



SD210-HF3P2LDF

Antennas Low Band, Aviation, and VHF Antennas SD210-HL - PIM Certified Series

SD210-HF3P4LDF

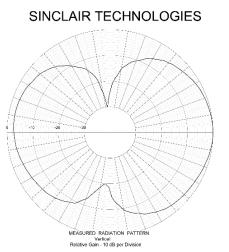
SD210-HF3P4LDF(D00B)

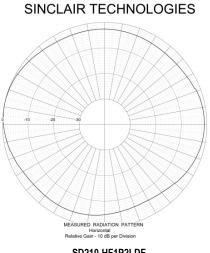
Electrical Specifications				
Frequency Range, MHz	190 to 225	190 to 225	190 to 225	190 to 225
Gain (nominal), dBd (dBi)	1.5 (3.6)	1.5 (3.6)	2 (4.1)	2 (4.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical	vertical
Impedance, Ω		50		50
Pattern	Bi-directional	Bi-directional	Offset	Offset
Horizontal beamwidth, degrees			210	180
Vertical beamwidth, degrees	68	68	68	68
Average Power Input (max), W	200	300	300	300
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-150	-150	-150
Lightning protection	DC ground	DC ground	DC ground	DC ground

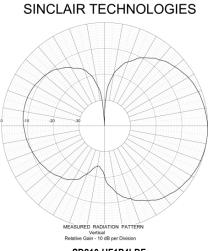
SD210-HF3P2LDF(D00B)

Mechanical Specifications

Connector	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	60 (1524)	60 (1524)	60 (1524)	60 (1524)
Width, in (mm)	42.1 (1069)	31.5 (800)	24.1 (612)	18 (457)
Depth, in (mm)	3 (76)	3.5 (89)	3.5 (89)	3.5 (89)
Base pipe diameter, in (mm)	1.9 (48)	1.9 (48)	1.9 (48)	1.9 (48)
Base pipe mounting length, in (mm)		24 (610)		24 (610)
Weight, lbs (kg)	13.3 (6)	10.8 (4.9)	13.3 (6)	9.5 (4.3)
Weight iced, lbs (kg)	56.1 (25.5)	27 (12.3)	49 (22.2)	24.5 (11.1)
Actual Shipping weight, lbs (kg)	20 (9.1)	28 (12.7)	20 (9.1)	21 (9.5)
Shipping dimensions, in (mm)	63x4x42 (1600x102x1067)	60x36x6 (1524x914x152)	63x4x42 (1600x102x1067)	63x26.4x6 (1600x671x152
Mounting hardware	Clamps not supplied	clamps not supplied	Clamps not supplied	clamps not supplied

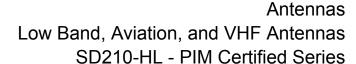




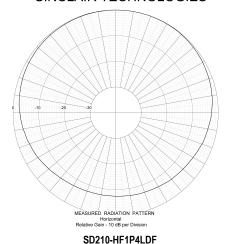


SD210-HF1P2LDF	SD210-HF1P2LDF	SD210-HF1P4LDF
ODZ 10-111 11 ZEDI	0D210-111 11 2LD1	0D210-111 11 1 ED1

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Product Specification	n Sheet	SD210-HL - PIM Certified		Dated: 05-02-10



SINCLAIR TECHNOLOGIES



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