

SD214-L - PIM Certified 4 dipole antenna, 7.0/7.5 dBd gain, low PIM, 118-225 MHz

- Industry-leading -150 dBc PIM rating, covering 118-225 MHz in 3 band splits
- 7.0 dBd gain in elliptical (bi-directional) pattern (1/2 wave), 7.5 dBd gain in offset pattern (1/4 wave)
- 300W power handling

The SD214-L series is a low PIM, 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 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-L 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.

Clamps are not included but recommended is the set of #130 clamps.



1/4 wave shown

Model	Description	Pattern
<a href="#">SD214-SF1P2LDF</a>	7.0 dBd gain, elliptical, 7/16 DIN (female) connector, 118-138 MHz	Bi-directional
<a href="#">SD214-SF1P4LDF</a>	7.5 dBd gain, offset, 7/16 DIN (female) connector, 118-138 MHz	Offset
<a href="#">SD214-SF2P2LDF</a>	7.0 dBd gain, elliptical, 7/16 DIN (female) connector, 138-174 MHz	Bi-directional
<a href="#">SD214-SF2P4LDF</a>	7.5 dBd gain, offset, 7/16 DIN (female) connector, 138-174 MHz	Offset
<a href="#">SD214-SF3P2LDF</a>	7.0 dBd gain, elliptical, 7/16 DIN (female) connector, 190-225 MHz	Bi-directional
<a href="#">SD214-SF3P4LDF</a>	7.5 dBd gain, offset, 7/16 DIN (female) connector, 190-225 MHz	Offset

www.sinctech.com

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 Sheet		SD214-L - PIM Certified		Dated: 05-02-10

[SD214-SF1P2LDF](#)

[SD214-SF1P4LDF](#)

[SD214-SF2P2LDF](#)

[SD214-SF2P4LDF](#)

**Electrical Specifications**

Frequency Range, MHz	118 to 138	118 to 138	138 to 174	138 to 174
Gain (nominal), dBd (dBi)	7 (9.1)	7.5 (9.6)	7 (9.1)	7.5 (9.6)
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		210		210
Vertical beamwidth, degrees	18	18	18	18
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	20	20	36	36
Electrical tilt (available)	0	0	0	0

**Mechanical Specifications**

Connector	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	240 (6096)	240 (6096)	240 (6096)	240 (6096)
Width, in (mm)	42 (1067)	23 (584)	42 (1067)	23 (584)
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)	2.4 (60)	2.4 (60)
Weight, lbs (kg)	63.4 (28.8)	58 (26.3)	63 (28.6)	58 (26.3)
Weight iced, lbs (kg)	137.3 (62.3)	137.3 (62.3)	137.3 (62.3)	123 (55.8)
Actual Shipping weight, lbs (kg)	80 (36.3)	85 (38.6)	85 (38.6)	85 (38.6)
Shipping dimensions, in (mm)	247x44x6 (6274x1118x152)	245x29x6.5 (6223x737x165)	247x44x6 (6274x1118x152)	247x44x6.5 (6274x1118x165)
FPE, ft <sup>2</sup> (m <sup>2</sup> )	4.89 (0.45)	4.25 (0.39)	4.89 (0.45)	4.25 (0.39)
Mounting hardware	clamps not supplied	clamps not supplied	clamps not supplied	clamps not supplied

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<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
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[SD214-SF3P2LDF](#)

[SD214-SF3P4LDF](#)

**Electrical Specifications**

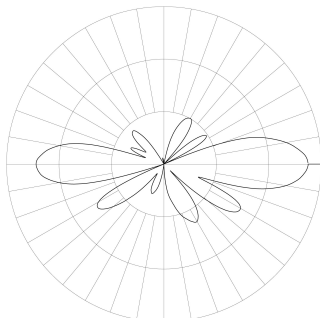
Frequency Range, MHz	190 to 225	190 to 225
Gain (nominal), dBd (dBi)	7 (9.1)	7.5 (9.6)
Input VSWR (max)	1.5:1	1.5:1
Polarization	vertical	vertical
Pattern	Bi-directional	Offset
Horizontal beamwidth, degrees		210
Vertical beamwidth, degrees	18	18
Average Power Input (max), W	300	300
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-150
Lightning protection	DC ground	DC ground
Bandwidth, MHz	35	35
Electrical tilt (available)	0	0

**Mechanical Specifications**

Connector	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	240 (6096)	240 (6096)
Width, in (mm)	42 (1067)	23 (584)
Depth, in (mm)	3.5 (89)	3.5 (89)
Base pipe diameter, in (mm)	2.4 (60)	2.4 (60)
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FPE, ft <sup>2</sup> (m <sup>2</sup> )	4.89 (0.45)	
Mounting hardware	clamps not supplied	clamps not supplied

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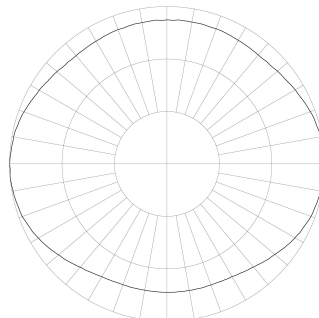
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MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

SD214-SF1P2LDF



MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Azimuth  
Relative Gain - 10 dB per Division

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