

[< Home](#)  
[< Family](#)

**SD212-L - PIM Certified** 2 dipole antenna, 4.5/5.0 dBd gain, low PIM, 118-225 MHz

- Industry-leading -150 PIM rating, covering 118-225 MHz in 3 band splits
- 4.5 dBd gain at elliptical (bi-directional) pattern (1/2 wave), 5.0 dBd gain at offset pattern (1/4 wave)
- 300W power handling

The SD212-L series is an extremely rugged 2-bay exposed dipole antenna designed for applications where moderate gain is required and Passive Intermodulation interference (PIM) is a consideration. These premium-quality antennas are well suited to public safety/public security applications.

The SD212-L provides industry leading -150 dBc Passive Intermodulation (PIM) performance.

**Application Notes**

- The SD212-L is a rugged low-PIM, medium gain dipole antenna designed to provide coverage for public safety applications. The SD212-L is especially well suited to multicoupled applications where PIM is a consideration.
- Sub bands:  
118-138 MHz (F1)  
138-174 MHz (F2)  
220-225 MHz (F3)



Model	Description	Pattern
<a href="#">SD212-SF1P2LDF</a>	4.5 dBd gain, elliptical, 7/16 DIN (female) connector, 118-138 MHz	Bi-directional
<a href="#">SD212-SF1P4LDF</a>	5.0 dBd gain, offset, 7/16 DIN (female) connector, 118-138 MHz	Offset
<a href="#">SD212-SF2P2LDF(D00B)</a>	4.5 dBd gain, elliptical, 7/16 DIN (female) connector, 138-174 MHz	Bi-directional
<a href="#">SD212-SF2P4LDF(D00B)</a>	5.0 dBd gain, offset, 7/16 DIN (female) connector, 138-174 MHz	Offset
<a href="#">SD212-SF3P2LDF</a>	4.5 dBd gain, elliptical, 7/16 DIN (female) connector, 190-225 MHz	Bi-directional
<a href="#">SD212-SF3P4LDF</a>	5.0 dBd gain, offset, 7/16 DIN (female) connector, 190-225 MHz	Offset

1/4 wave shown

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
<b>Telephone</b>	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
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		SD212-L - PIM Certified		Dated: 05-02-10

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[SD212-SF1P2LDF](#)

[SD212-SF1P4LDF](#)

[SD212-SF2P2LDF\(D00B\)](#)

[SD212-SF2P4LDF\(D00B\)](#)

**Electrical Specifications**

Frequency Range, MHz	118 to 138	118 to 138	138 to 174	138 to 174
Gain (nominal), dBd (dBi)	4.5 (6.6)	5 (7.1)	4.5 (6.6)	5 (7.1)
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		210		210
Vertical beamwidth, degrees	36	34	36	34
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

**Mechanical Specifications**

Connector	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	120 (3048)	120 (3048)	120 (3048)	120 (3048)
Width, in (mm)	42 (1067)	21 (533)	42 (1067)	21 (533)
Depth, in (mm)	3.5 (89)	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)
Weight, lbs (kg)	23.2 (10.5)	20 (9.1)	23.2 (10.5)	20 (9.1)
Weight iced, lbs (kg)	55.9 (25.4)	50.3 (22.8)	55.9 (25.4)	50.3 (22.8)
Actual Shipping weight, lbs (kg)	125 (56.8)	100 (45.4)	44.5 (20.2)	100 (45.4)
Shipping dimensions, in (mm)	247x6x44in ( )	247x6x27in ( )	126x44.4x0.5 (3200x1128x13)	247x6x27in ( )
FPE, ft² (m²)	2.18 (0.2)	1.86 (0.17)	2.18 (0.2)	1.86 (0.17)
Mounting hardware	clamps not supplied	clamps not supplied	clamps not supplied	clamps not supplied

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[SD212-SF3P2LDF](#)

[SD212-SF3P4LDF](#)

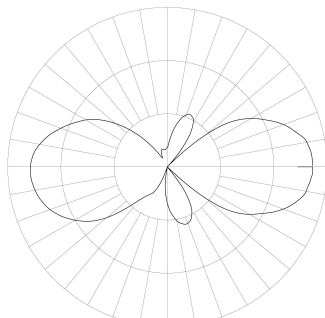
**Electrical Specifications**

Frequency Range, MHz	190 to 225	190 to 225
Gain (nominal), dBd (dBi)	4.5 (6.6)	5 (7.1)
Input VSWR (max)	1.5:1	1.5:1
Polarization	vertical	vertical
Pattern	Bi-directional	Offset
Horizontal beamwidth, degrees		210
Vertical beamwidth, degrees	36	34
Average Power Input (max), W	300	300
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-150
Lightning protection	DC ground	DC ground

**Mechanical Specifications**

Connector	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	120 (3048)	120 (3048)
Width, in (mm)	42 (1067)	21 (533)
Depth, in (mm)	3.5 (89)	3.5 (89)
Base pipe diameter, in (mm)	1.9 (48)	1.9 (48)
Weight, lbs (kg)	23.2 (10.5)	20 (9.1)
Weight iced, lbs (kg)	55.9 (25.4)	50.3 (22.8)
Actual Shipping weight, lbs (kg)	125 (56.8)	100 (45.4)
Shipping dimensions, in (mm)	247x6x44 (6274x152x1118)	247x6x27 (6274x152x686)
FPE, ft <sup>2</sup> (m <sup>2</sup> )	2.18 (0.2)	1.86 (0.17)
Mounting hardware	clamps not supplied	clamps not supplied

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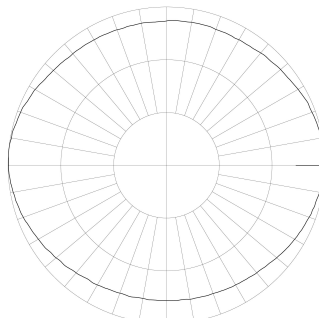


MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation  
Relative Gain - 10 dB per Division

SD212-SF1P2LDF

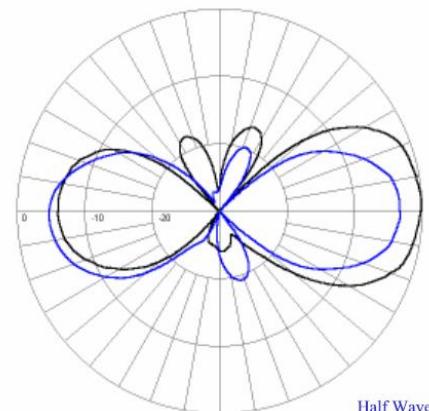
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MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Azimuth  
Relative Gain - 10 dB per Division

SD212-SF1P2LDF

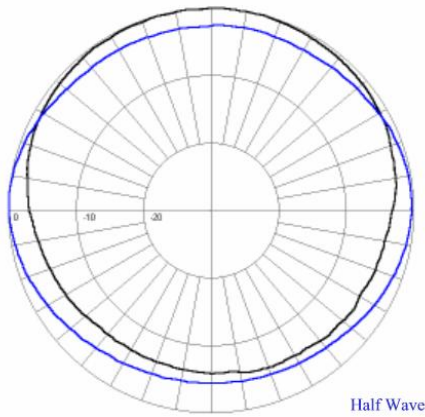


Elevation

Half Wave  
Quarter Wave

SD212-SF1P4LDF

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Azimuth  
Half Wave  
Quarter Wave

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