

SD212R-SF2P90LDF(D00S) Low PIM VHF reflector, 2 dipole, 90° beamwidth, 138-174 MHz

- 90° horizontal beamwidth for VHF simulcast applications
- Two bay stacked dipoles offering 8.5 dBd of gain
- Unique design for low passive intermodulation

The SD212R-L series antenna is a rugged exposed dipole antenna with corner reflector which covers the entire 138-174 MHz range. It is an excellent antenna for multicoupling several systems or for use with widely spaced duplex frequencies. 60, 90 or 120 degrees horizontal beamwidth available for different sectorized coverages.

The SD212R-L series is a two bay stacked dipoles antenna. One and 4 bay units are also available for different gains. The reflectors are two separate flat screens which can be disassembled for shipping and assembled on site conveniently.

This series of antennas are to be side mounted. Please order the antenna with proper beamwidth and gain for your system using model numbers given in the following application notes.

Application Notes

- Model number SD212R-SF2PALDF-Two bay dipoles, beamwidth:
 A=60, 60 degrees
 A=90, 90 degrees
 A=120, 120 degrees



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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
E-mail	salesusa@sinclaire.com	salesuk@sinclaire.com	salesla@sinclaire.com	salescan@sinclaire.com

Electrical Specifications

Frequency Range	MHz	138 to 174
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	8.5 (10.6)
VSWR (max)		1.5:1
Polarization		vertical
Pattern		Directional
Horizontal beamwidth (typ)	degrees	90
Vertical beamwidth (typ)	degrees	36
Main Beam Electrical Tilt (Downtilt)	degrees	0, 3, 6
Average Power Input (max)	W	300
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Front-to-back ratio (typ)	dB	20

Notes

- *1 : 2 and 2 Required
- *2 : Shipped in two boxes.

Mechanical Specifications

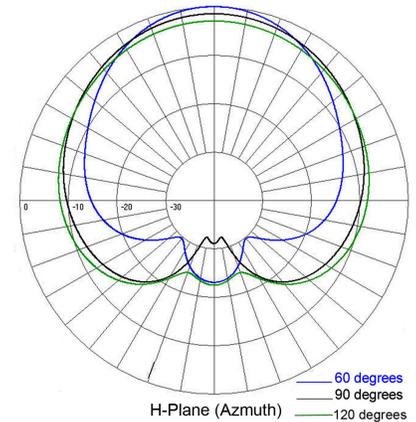
Depth	in (mm)	28 (711)
Length/ Height	in (mm)	120 (3048)
Width	in (mm)	54 (1372)
Base pipe diameter	in (mm)	2.38 (60)
Weight	lbs (kg)	79 (35.87)
Weight iced	lbs (kg)	207 (93.98)
Mounting Hardware (Optional)		Clamp006A/Clamp006B & Clamp0064HD/Clamp017 *1
Shipping dimensions	in (mm)	126x6x38 (3200x152x965) *2

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft ² (m ²)	8.49 (0.79)
Wind Loading Area (1/2" ice)	ft ² (m ²)	16.13 (1.5)
Rated wind velocity (no ice)	mph (km/h)	155 (250)
Rated wind velocity (1/2" radial ice)	mph (km/h)	115 (185)
Lateral thrust (100 mph No Ice)	lbs (N)	161 (716.1)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	153 (206.6)

Ordering Information

Please contact Sinclair CSR to order mounting clamps.



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