

**SD212R-SF2P60LDF(D00S)** PIM Certified VHF reflector, 2 dipole, 60° beamwidth, 138-174 MHz

- 60° horizontal beamwidth for VHF simulcast applications
- Two bay stacked dipoles offering 10 dBd 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.



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) 1487 84 28 19	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

#### Electrical Specifications

Frequency Range	MHz	138 to 174
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	10 (12.1)
VSWR (max)		1.5:1
Polarization		vertical
Pattern		Directional
Horizontal beamwidth (typ)	degrees	60
Vertical beamwidth (typ)	degrees	36
Average Power Input (max)	W	300
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Main Beam Electrical Tilt (Downtilt)	degrees	0, 3, 6
Front-to-back ratio (typ)	dB	25

#### Notes

- \*1 : Not including support pipes
- \*2 : 2 and 2 Required
- \*3 : ships in 3 packages

#### Mechanical Specifications

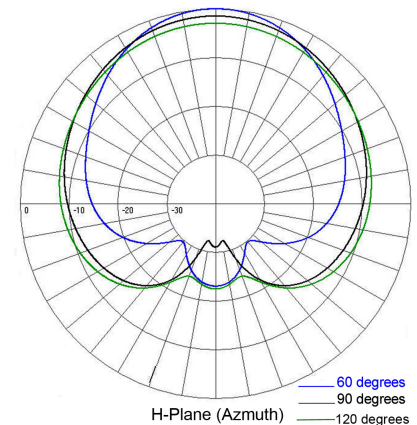
Width	in (mm)	87.5 (2223)	
Depth	in (mm)	42 (1067)	*1
Length/ Height	in (mm)	120 (3048)	
Base pipe diameter	in (mm)	2.38 (60)	
Weight	lbs (kg)	104.5 (47.44)	
Weight iced (1/2" ice)	lbs (kg)	249 (113.05)	
Mounting Hardware (Optional)		Clamp006A/Clamp006B & Clamp0064HD/Clamp017	*2
Estimated Shipping Weight	lbs (kg)	160 (72.64)	*3
Shipping weight (package 1)	lbs (kg)	90 (40.86)	
Shipping weight (package 2)	lbs (kg)	51 (23.15)	
Shipping weight (package 3)	lbs (kg)	19 (8.63)	
Shipping dimensions (package 1)	in (mm)	126x62x6 (3200x1575x152)	
Shipping dimensions (package 2)	in (mm)	124x44x4 (3150x1118x102)	
Shipping dimensions (package 3)	in (mm)	147x4x2 (3734x102x51)	
Mounting configurations		side mount	

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	10.3 (0.96)
Wind Loading Area (1/2" ice)	ft² (m²)	19.8 (1.84)
Rated wind velocity (no ice)	mph (km/h)	155 (250)
Rated wind velocity (1/2" radial ice)	mph (km/h)	110 (177)
Lateral thrust (100 mph No Ice)	lbs (N)	376 (1672.4)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	579 (781.7)

#### Ordering Information

Please contact Sinclair CSR to order mounting clamps.



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