

SD214R-SF2P60LDF(D00S) Low PIM VHF reflector antenna, 60° beamwidth, 138-174 MHz

- 60 degrees horizontal beamwidth for VHF simulcast applications
- Four bay stacked dipoles offering 12.5 dBd of gain
- Unique design for low passive intermodulation

The SD214R-L series antenna is a rugged exposed dipole antenna with corner reflector which covers the entire 138-174 MHz frequency 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 SD214R-L series is a four bay stacked dipoles antenna. One and 2 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 SD214R-SF2PALDF-Four 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
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E-mail	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)	12.5 (14.6)
VSWR (max)		1.5:1
Polarization		vertical
Pattern		Directional
Horizontal beamwidth (typ)	degrees	60
Vertical beamwidth (typ)	degrees	18
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

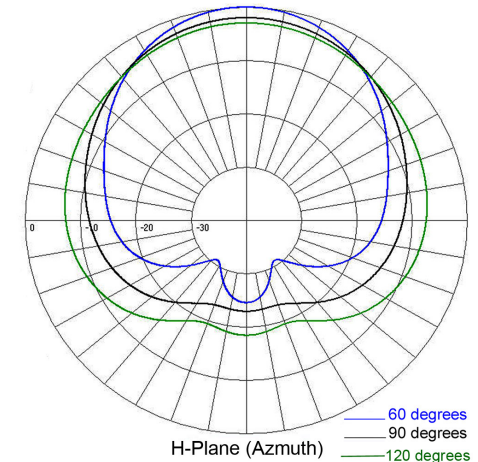
- *1 : 3 and 4 required
- *2 : Shipped in three boxes

Mechanical Specifications

Width	in (mm)	87.5 (2223)
Depth	in (mm)	45 (1143)
Length/ Height	in (mm)	240 (6096)
Base pipe diameter	in (mm)	2.38 (60)
Weight	lbs (kg)	181 (82.17)
Weight iced (1/2" ice)	lbs (kg)	453 (205.66)
Mounting Hardware (Optional)		Clamp006A/Clamp006B & Clamp0064HD/Clamp017 *1
Estimated Shipping Weight	lbs (kg)	231 (104.87)
Shipping dimensions	in (mm)	246x6x62 (6248x152x1575) *2
Mounting configurations		side mount

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	20.72 (1.92)
Wind Loading Area (1/2" ice)	ft² (m²)	39.52 (3.67)
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)	752 (3344.9)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	1158 (1563.3)



Ordering Information

Please contact Sinclair CSR to order mounting clamps.

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