

Antennas Low Band, Aviation, and VHF Antennas SD210R-L - PIM Certified Series

SD210R-SF2P120LDF(S)

Low PIM VHF reflector, 120° beamwidth, 210-230MHz

- · 120 degrees horizontal beamwidth for VHF simulcast applications
- · Single bay dipole with 4.5 dBd of gain
- · Broadband operation, covering 210-230 MHz full band
- · Unique design for low passive intermodulation (PIM)

The SD210R-L series antenna is a rugged exposed dipole antenna with corner reflector which covers the entire 210-230 MHz range. Because of its broadband operation, 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.

One, two or four bay stacked dipoles are available for different gains. The reflectors are two separate flat screens which can be disassembled for shipping and assembled on site conveniently.

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



Antenna may not appear exactly as shown

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SD210R-SF2P120LDF(S)	Issue: 3	Dated: 31-01-24

EPR 018378 Customer Tech Manual 006067 Dated: 31-01-24



Antennas Low Band, Aviation, and VHF Antennas SD210R-L - PIM Certified Series

A Norsat Company Norsat International Inc.

Electrical Specifications		
Frequency Range	MHz	210 to 230
Bandwidth	MHz	20
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	4.5 (6.6)
VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Directional
Horizontal beamwidth (typ)	degrees	120
Vertical beamwidth (typ)	degrees	72
Average Input Power (max)	W	300
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Front-to-back ratio (typ)	dB	17
Grounding		All metal parts DC-grounded

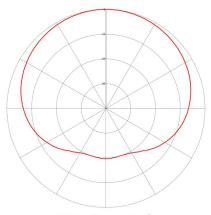
Notes
*1 : Qty 2 Required.

Ordering Information

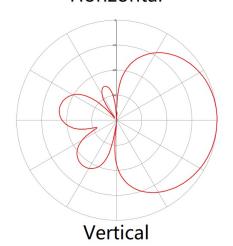
Please contact Sinclair CSR to order mounting clamps.

Mechanical Specifications			
Width	in (mm)	32 (813)	
Depth	in (mm)	17 (432)	
Length/ Height	in (mm)	42.5 (1080)	
Base pipe diameter	in (mm)	1.9 (48)	
Mounting Hardware (Optional)		Clamp006A or Clamp130	*1
Mounting configurations		side mount	

Environmental Specifications °F (°C) -40 to +140 (-40 to +60) Temperature range Wind Loading Area (Flat Plate Equivalent) ft² (m²) 3 (0.28) 5.6 (0.52) Wind Loading Area (1/2" ice) ft² (m²) Rated wind velocity (no ice) mph (km/h) 195 (314) Rated wind velocity (1/2" radial ice) 145 (233) mph (km/h) Lateral Thrust (100 mph No Ice) 110 (489.3) lbs (N) Torsional moment (100 mph No Ice) 85 (114.8) ft-lbs (Nm)



Horizontal



Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SD210R-SF2P120LDF(S)	Issue: 3	Dated: 31-01-24

EPR 018378 Customer Tech Manual 006067