

SD210-SF2P2(XXX) 1 dipole, 2/1.5 dBd, bi-directional pattern, low PIM, 138-174 MHz

- 1-bay dipole antenna that covers the 138-174 MHz band
- 2 or 1.5 dBd gain with bi-directional pattern
- PIM and PIP rated (optional) for modern LMR/PMR systems
- Available with a range of options to suit different applications

The SD210 series is an extremely rugged 1-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 for public safety applications. Their industry-leading -150 dBc PIM rating makes them the ideal antenna for modern LMR/PMR systems.

Ordering information:

Model number	Connector	PIM (dBc)	Mount	Gain (dBd)	Power (Max)
SD210-SF2P2LDF	7/16 DIN(F)	-150	Top/side*	1.5	300W
SD210-SF2P2SNM	N(M)	NA	Top/side*	2	200W
SD210-SF2P2SNF	N(F)	NA	Top/side*	2	200W

Note:

* Top/side: can be either top or side mounted

Additional customizations are available upon request. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

CTM number: SN(x) models 005035, LDF model 005850.



Actual appearance of antenna may vary slightly from image 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		SD210-SF2P2(XXX)	Issue: 2	Dated: 02-08-24

Electrical Specifications

Frequency Range	MHz	138 to 174	
Bandwidth	MHz	36	
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Bi-directional	
Horizontal beamwidth (typ)	degrees	210	*1
Vertical beamwidth (typ)	degrees	68	*2
Average Input Power (max)	W	200	
Grounding	All metal parts DC-grounded		

Notes

- *1 : $\pm 10\%$
- *2 : $\pm 10\%$
- *3 : Qty: 2
- *4 : Not included. Optional.
- *5 : Top mount. Side mount 200 mph
- *6 : Top mount. Side mount 130 mph.
- *7 : Top mount. Side mount 37 ft-lbs.
- *8 : Top mount. Not applicable to side mount.

Mechanical Specifications

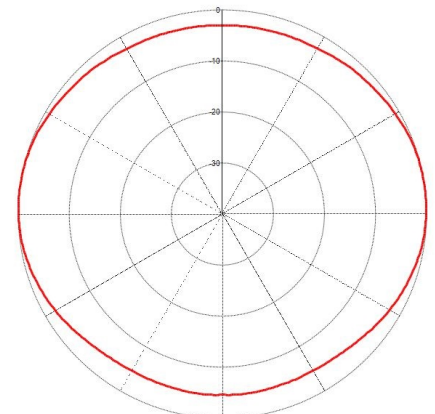
Width	in (mm)	40 (1016)	
Depth	in (mm)	3 (76)	
Length/ Height	in (mm)	60 (1524)	
Base pipe diameter	in (mm)	1.9 (48)	
Radiating element material		aluminum	
Base pipe material		aluminum	
Weight	lbs (kg)	9 (4.09)	
Weight iced (1/2" ice)	lbs (kg)	26 (11.8)	
Mounting Hardware (Optional)		Clamp005, clamp005X, clamp015, or clamp130	*3
Kit for Offset Side Mount (straight tower leg)		SMK-125-A7	*4
Actual shipping weight	lbs (kg)	18 (8.17)	
Shipping dimensions	in (mm)	63x42x4 (1600x1067x102)	

Ordering Information

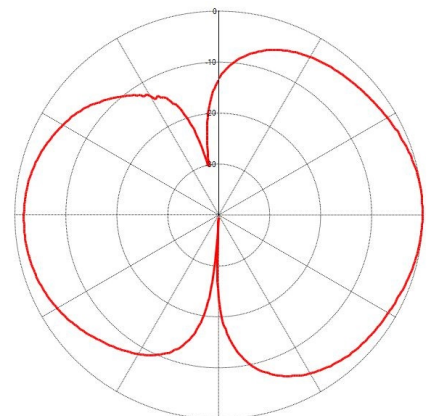
Clamps to be ordered separately.

Environmental Specifications

Temperature range	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	-40 to +140 (-40 to +60)	
Wind Loading Area (Flat Plate Equivalent)	ft^2 (m^2)	1 (0.09)	
Wind Loading Area (1/2" ice)	ft^2 (m^2)	1.8 (0.17)	
Rated wind velocity (no ice)	mph (km/h)	175 (282)	*5
Rated wind velocity (1/2" radial ice)	mph (km/h)	110 (177)	*6
Lateral Thrust (100 mph No Ice)	lbs (N)	45 (200.2)	
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	43 (58.1)	
Bending moment (100 mph No Ice)	ft-lbs (Nm)	55 (74.3)	*7
Tip deflection (100 mph No Ice)	degrees	0.1	*8



Horizontal



Vertical

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