

SD214-SF2P4(ZZZ)(DXX-YYY) 4 dipole, 8.5 dBd, offset pattern, low PIM, 138-174 MHz

- 4-bay dipole antenna that covers the 138-174 MHz band
- High gain with an offset pattern
- PIM and PIP rated (optional) for modern LMR/PMR systems
- Available with a range of options to suit different applications

The SD214 series is an extremely rugged 4-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.

When ordering, please see the chart below for specific part# (subject to different list price).

Model number	Connector	DT*	PIM (dBc)	Mount	Note
SD214-SF2P4LDF(D00)	7/16 DIN(F)	0°	-150	Top/side*	-
SD214-SF2P4LDF(D02)	7/16 DIN(F)	2°	-150	Top/side*	-
SD214-SF2P4LDF(D04)	7/16 DIN(F)	4°	-150	Top/side*	-
SD214-SF2P4LDF(D06)	7/16 DIN(F)	6°	-150	Top/side*	-
SD214-SF2P4SNM(D00)	N(M)	0°	NA	Top/side*	-
SD214-SF2P4SNM(D02)	N(M)	2°	NA	Top/side*	-
SD214-SF2P4SNM(D04)	N(M)	4°	NA	Top/side*	-
SD214-SF2P4SNM(D06)	N(M)	6°	NA	Top/side*	-
SD214-SF2P4SNF(D00)	N(F)	0°	NA	Top/side*	-
SD214-SF2P4SNM(D00B-ABK)	N(M)	0°	NA	Top mount	ABK*
SD214-SF2P4SNM(D00S-ABK)	N(M)	0°	NA	Side mount	ABK*
SD214-SF2P4SNM(D00-LS)	N(M)	0°	NA	Top/side*	LS*

Note:

- * DT: downtilt
- * Top/side: can be either top or side mounted
- * ABK: black anodized finish
- * LS: lightning spike equipped at the top, total antenna length/height 264 inch.

Additional customizations are available upon request, such as PIP rated, null-filled pattern, ice guard, or less-mast. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.



Regular (non-ABK/non-LS) version 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		SD214-SF2P4(ZZZ)(DXX-YYY)	Issue: 2	Dated: 18-06-24

Electrical Specifications

Frequency Range	MHz	138 to 174	
Bandwidth	MHz	36	
Connector		Various options avail.	*1
Connector Termination		3' (90cm) pigtail	*2
Gain (nominal)	dBd (dBi)	8.5 (10.6)	*3
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Offset	
Horizontal beamwidth (typ)	degrees	210	*4
Vertical beamwidth (typ)	degrees	18	*5
Average Input Power (max)	W	300	
Grounding		All metal parts DC-grounded	

Notes

- *1 : See previous page for details.
- *2 : Nominal
- *3 : ± 1 dB. LDF models 7.5 dBd
- *4 : $\pm 10\%$
- *5 : $\pm 10\%$
- *6 : -LS version 264 in, see previous page for details.
- *7 : Qty: 2
- *8 : Not included. Optional.
- *9 : Top mount. Side mount 200 mph
- *10 : Top mount. Side mount 130 mph.
- *11 : Top mount. Side mount 144 ft-lbs.
- *12 : Top mount. Not applicable to side mount.

Ordering Information

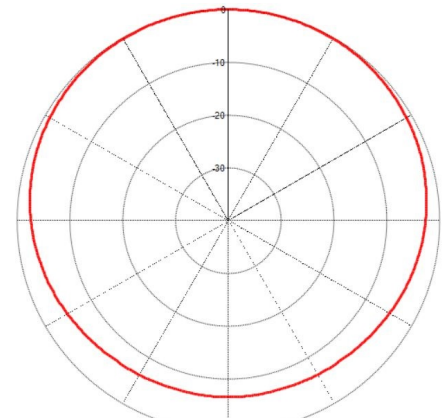
Clamps to be ordered separately.

Mechanical Specifications

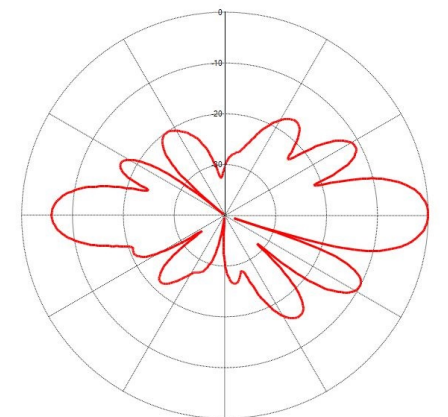
Width	in (mm)	23 (584)	
Depth	in (mm)	3.5 (89)	
Length/ Height	in (mm)	240 (6096)	*6
Base pipe diameter	in (mm)	2.38 (60)	
Radiating element material		aluminum	
Base pipe material		aluminum	
Weight	lbs (kg)	57 (25.88)	
Weight iced (1/2" ice)	lbs (kg)	125 (56.75)	
Mounting Hardware (Optional)		Clamp005, clamp005X, clamp015, or clamp130	*7
Kit for Offset Side Mount (straight tower leg)		SMK-125-A7	*8
Actual shipping weight	lbs (kg)	90 (40.86)	
Shipping dimensions	in (mm)	245x26x6.5 (6223x660x165)	

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)	4.1 (0.38)	
Wind Loading Area (1/2" ice)	ft ² (m ²)	6.9 (0.64)	
Rated wind velocity (no ice)	mph (km/h)	125 (201)	*9
Rated wind velocity (1/2" radial ice)	mph (km/h)	90 (145)	*10
Lateral Thrust (100 mph No Ice)	lbs (N)	158 (702.8)	
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	76 (102.6)	
Bending moment (100 mph No Ice)	ft-lbs (Nm)	765 (1032.8)	*11
Tip deflection (100 mph No Ice)	degrees	2.2	*12



Horizontal



Vertical, 0° downtilt

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