

SD212E-SF2P4(ZZZ)(DXX-YYY) 2 dipole, 5.5 dBd, offset pattern, low PIM, 138-174 MHz

- Covers the entire 138-174 MHz frequency range
- 5.5 dBd gain with offset pattern
- PIM and PIP rated (optional) for modern LMR/PMR systems
- Available with a range of options to suit different applications

The SD214E series is an extremely rugged 4-bay exposed dipole antenna designed for applications where the moderate gain is required and Passive Intermodulation interference (PIM) is a consideration. These premium-quality antennas are well suited for public safety applications. Industry-leading -150 dBc PIM rating (Passive Intermodulation) makes it the ideal candidate 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	Finish
SD212E-SF2P4LDF(D00)	7/16 DIN(F)	0°	-150	Universal	-
SD212E-SF2P4L4F(D00)	4.3-10(F)	0°	-150	Universal	-
SD212E-SF2P4SNM(D00)	N(M)	0°	NA	Universal	-
SD212E-SF2P4SNM(D02)	N(M)	2°	NA	Universal	-
SD212E-SF2P4SNM(D04)	N(M)	4°	NA	Universal	-
SD212E-SF2P4SNM(D06)	N(M)	6°	NA	Universal	-
SD212E-SF2P4SNF(D00)	N(F)	0°	NA	Universal	-
SD212E-SF2P4SNM(D00B-ABK)	N(M)	0°	NA	Top mount	ABK**
SD212E-SF2P4SNM(D00S-ABK)	N(M)	0°	NA	Side mount	ABK**

**Note:**

\* DT: downtilt

\*\* ABK: black anodized

Additional customizations are available upon request, such as integrated PIP rated, lightning spike, ice guard, less-mast, or a combination. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.



Regular (non-ABK) version shown.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

#### 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)	5.5 (7.6)	*3
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Offset	
Horizontal beamwidth (typ)	degrees	185	*4
Vertical beamwidth (typ)	degrees	34	*5
Average Input Power (max)	W	300	
Front-to-back ratio (Typ)	dB	7	
Lightning protection		DC ground	
Electrical tilt (available)		0, 2, 4, or 6 degrees	

#### Mechanical Specifications

Width	in (mm)	22.5 (572)	
Depth	in (mm)	3 (76)	
Length/ Height	in (mm)	120 (3048)	
Base pipe diameter	in (mm)	1.9 (48)	
Radiating element material		aluminum	
Base pipe material		aluminum	
Weight	lbs (kg)	18 (8.17)	
Weight iced (1/2" ice)	lbs (kg)	46 (20.88)	
Mounting Hardware (Optional)		Clamp005, or Clamp005X	*6
Kit for Offset Side Mount (straight tower leg)		SMK-125-A3 or SMK-125-A7	*7
Actual shipping weight	lbs (kg)	33 (14.98)	
Shipping dimensions	in (mm)	124x26x4 (3150x660x102)	

#### Environmental Specifications

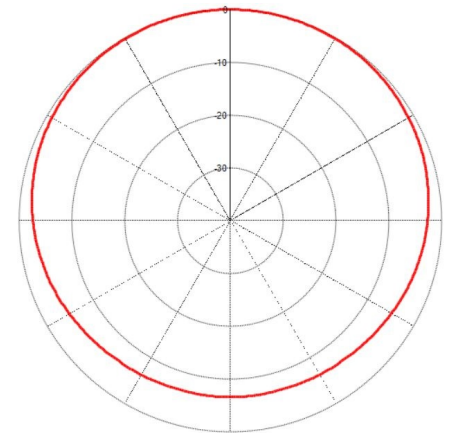
Temperature range	°F (°C)	-40 to +140 (-40 to +60)	
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.83 (0.17)	
Wind Loading Area (1/2" ice)	ft² (m²)	3.25 (0.3)	
Rated wind velocity (no ice)	mph (km/h)	160 (258)	*8
Rated wind velocity (1/2" radial ice)	mph (km/h)	115 (185)	*9
Lateral Thrust (100 mph No Ice)	lbs (N)	66 (293.6)	
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	32 (43.2)	
Bending moment (100 mph No Ice)	ft-lbs (Nm)	212 (286.2)	*10
Tip deflection (100 mph No Ice)	degrees	0.6	*11

#### Notes

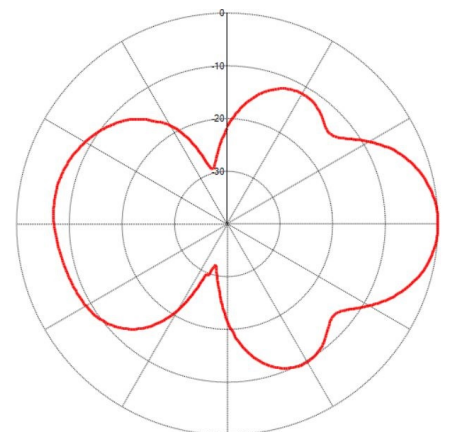
- \*1 : See previous page for details.
- \*2 : Nominal
- \*3 : ±1 dB
- \*4 : ±10%
- \*5 : ±10%
- \*6 : Qty: 2
- \*7 : Optional, not included.
- \*8 : Top mount. Side mount 190 mph.
- \*9 : Top mount. Side mount 120 mph.
- \*10: Top mount. Side mount 80 ft-lbs.
- \*11: Top mount. Not applicable to side mount.

#### Ordering Information

Clamps must be ordered separately.  
When ordering, please refer to the model list on the previous page for specific model numbers and downtilt configurations.



Horizontal



Vertical, 0° downtilt

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