

**SD210E-SF2P2(XXX)** 1 dipole, 2 dBd, bi-directional, low PIM, 138-174 MHz

- Wideband VHF antenna covering 138-174 MHz
- 2.0 dBd gain with bi-directional pattern
- PIM and PIP rated (optional) for modern LMR/PMR systems
- Can be top or side mount (Universal mount)

The SD210E series of antennas are extremely rugged with 1-bay exposed dipole design for applications where moderate gain is required and Passive Intermodulation interference (PIM) is a consideration. The industry-leading -150 dBc PIM rating (Passive Intermodulation) combined with the exceptional wide bandwidth makes it the ideal candidate for modern multi-coupled LMR/PMR systems.

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

Model number	Connector	PIM (dBc)
SD210E-SF2P2LDF	7/16 DIN(F)	< -150
SD210E-SF2P2SNM	N(M)	NA
SD210E-SF2P2SNF	N(F)	NA



Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specification Sheet		SD210E-SF2P2(XXX)	Issue: 1	Dated: 21-03-22

#### Electrical Specifications

Frequency Range	MHz	138 to 174	
Bandwidth	MHz	36	
Connector		Various options avail.	*1
Gain (nominal)	dBd (dBi)	2 (4.1)	
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Bi-directional	
Vertical beamwidth (typ)	degrees	68	
Average Input Power (max)	W	300	
Lightning protection		DC ground	
Main Beam Electrical Tilt (Downtilt)	degrees	0	

#### Notes

- \*1 : See previous page for details.
- \*2 : Qty: 2
- \*3 : Optional, not included.

#### Mechanical Specifications

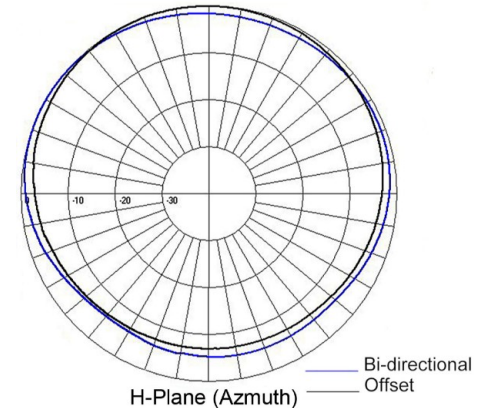
Width	in (mm)	40 (1016)	
Depth	in (mm)	3.5 (89)	
Length/ Height	in (mm)	60 (1524)	
Base pipe diameter	in (mm)	1.9 (48)	
Radiating element material		aluminum	
Base pipe material		aluminum	
Weight	lbs (kg)	9 (4.09)	
Weight iced (1/2" ice)	lbs (kg)	26 (11.8)	
Mounting configurations		Universal mount	
Mounting Hardware (Optional)		Clamp005, or Clamp005X	*2
Kit for Offset Side Mount (straight tower leg)		SMK-125-A3 or SMK-125-A7	*3
Actual shipping weight	lbs (kg)	18 (8.17)	
Shipping dimensions	in (mm)	63x4x42 (1600x102x1067)	

#### Ordering Information

Clamps to be ordered separately.

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft <sup>2</sup> (m <sup>2</sup> )	1.09 (0.1)
Wind Loading Area (1/2" ice)	ft <sup>2</sup> (m <sup>2</sup> )	1.92 (0.18)
Rated wind velocity (no ice)	mph (km/h)	175 (282)
Rated wind velocity (1/2" radial ice)	mph (km/h)	110 (177)
Lateral Thrust (100 mph No Ice)	lbs (N)	61 (271.3)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	48 (64.8)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	76 (102.6)



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