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**SD235-H**

Exposed dipole antenna array, 3/5.5 dBd gain, HD, field adj., 118-138 MHz

- Perfectly suited for multicoupled systems due to its broad band performance
- Field adjustable to allow for either omnidirectional or bidirectional pattern
- Low PIM models are also available

The SD235 is a highly versatile broadband antenna featuring omnidirectional or bidirectional pattern coverage. The pattern may be easily changed in the field. Because the SD235 covers the entire 118-174 MHz frequency band, it is ideally suited for use in multicoupled systems. Heavier duty and/or higher power rated models are available on special order.

**Model**

[SD235-HF1PASNM](#)

[SD235-HF2PASNM](#)

**Description**

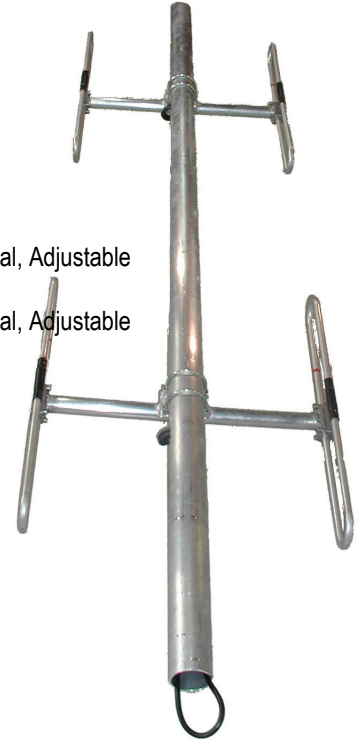
Exposed dipole antenna array, 3/5.5 dBd gain, HD, field adj., 118-138 MHz

Exposed dipole antenna array, 3/5.5 dBd gain, HD, field adj., 138-174 MHz

**Pattern**

Omni or Bi-directional, Adjustable

Omni or Bi-directional, Adjustable



www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Product Specification Sheet		SD235-H		Dated: 05-02-10

SD235-HF1PASNM

SD235-HF2PASNM

**Electrical Specifications**

Frequency Range, MHz	118 to 138	138 to 174
Gain (nominal), dBd (dBi)	3 (5.1)	3 (5.1)
Input VSWR (max)	1.5:1	1.5:1
Polarization	vertical	vertical
Pattern	Omni or Bi-directional, Adjustable	Omni or Bi-directional, Adjustable
Horizontal beamwidth, degrees	80	
Vertical beamwidth, degrees	36	36
Average Power Input (max), W	300	300
Lightning protection	DC ground	DC ground

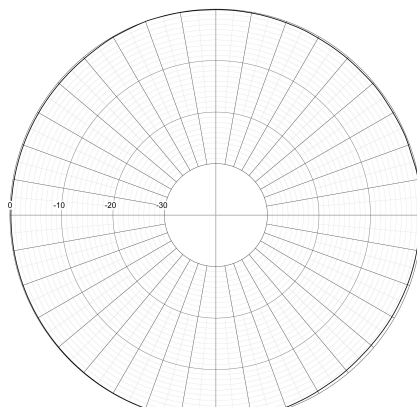
**Mechanical Specifications**

Connector	N (male)	N (male)
Length/ Height, in (mm)	240 (6096)	168 (4267)
Width, in (mm)	36.1 (917)	29.1 (740)
Depth, in (mm)	36.1 (917)	29.1 (740)
Base pipe diameter, in (mm)	4 (102)	2.4 (60)
Base pipe mounting length, in (mm)	72 (1829)	48 (1219)
Weight, lbs (kg)	110 (49.9)	55 (25)
Weight iced, lbs (kg)	201 (91.3)	113 (51.3)
Actual Shipping weight, lbs (kg)	154 (69.9)	95 (43.1)
Shipping dimensions, in (mm)	240x42x12 (6096x1067x305)	174x12x12 (4420x305x305)
Mounting hardware	clamps not supplied	clamps not supplied

**Environmental Specifications**

Temperature range, °F (°C)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent), ft <sup>2</sup> (m <sup>2</sup> )	6.64 (0.62)	4 (0.37)

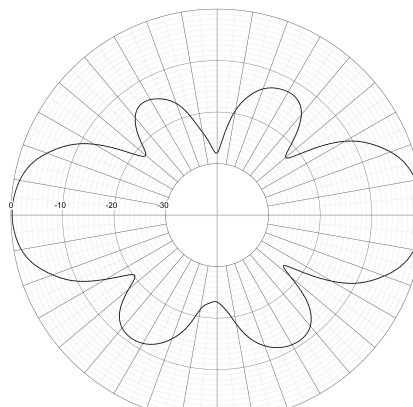
SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN  
Horizontal  
Relative Gain - 10 dB per Division

SD235-HF1PASNM

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN  
Vertical  
Relative Gain - 10 dB per Division

SD235-HF1PASNM

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