

SV228

Corner reflector directional antenna, 10 dBd gain, 138-174 MHz

- Similar to the SV227, but with larger reflector for higher gain
- Dual and quad stacked arrays available for gains of 12.5 dBd and 15 dBd respectively
- Higher power and/or heavy-duty models available
- 15% bandwidth for 1.8:1 VSWR

The SV228 combines the features of the SV227 with a larger reflector for higher gain which may be needed in certain system applications. Dual and quad stacked arrays are available for gains of 12.5 dBd and 15 dBd respectively. Higher power and/or heavy-duty models are available.

Model

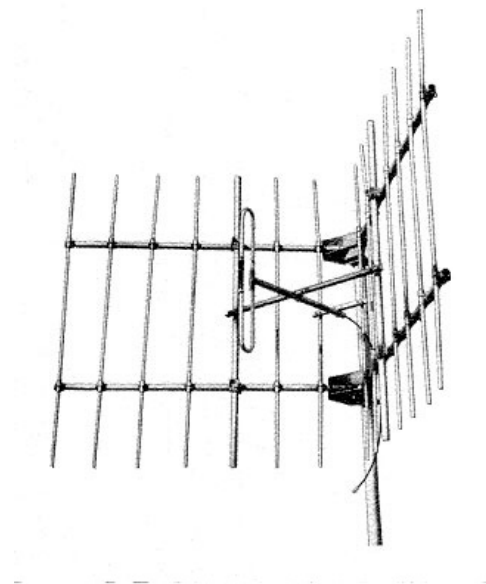
[SV228-HF2SNM](#)
[SV228-SF1SNM](#)
[SV228-SF2SNM](#)

Description

10 dBd gain, N (male) connector, 148-174 MHz
10 dBd gain, N (male) connector, 132-150 MHz
10 dBd gain, N (male) connector, 148-174 MHz

Pattern

Directional
Directional
Directional



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Product Specification Sheet		SV228		Dated: 05-02-10

SV228-HF2SNM

SV228-SF1SNM

SV228-SF2SNM

Electrical Specifications

Frequency Range, MHz	148 to 174	132 to 150	148 to 174
Gain (nominal), dBd (dBi)	10 (12.1)	10 (12.1)	10 (12.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1
Polarization	vertical or horizontal	vertical or horizontal	vertical or horizontal
Pattern	Directional	Directional	Directional
Horizontal beamwidth, degrees	50	50	50
Vertical beamwidth, degrees	66	66	66
Average Power Input (max), W	250	250	250
Lightning protection	DC ground	DC ground	DC ground
Front-to-back ratio (typ), dB	30	30	30

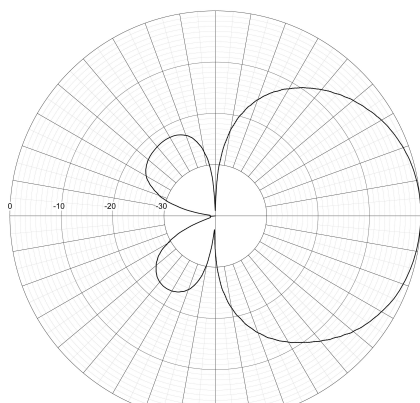
Mechanical Specifications

Connector	N (male)	N (male)	N (male)
Length/ Height, in (mm)	72 (1829)	72 (1829)	72 (1829)
Width, in (mm)	116 (2946)	120 (3048)	120 (3048)
Depth, in (mm)	62 (1575)		
Radiating element material	aluminum		
Weight, lbs (kg)	93 (42.2)	65 (29.5)	65 (29.5)
Weight iced, lbs (kg)	294 (133.5)		
Actual Shipping weight, lbs (kg)		75 (34.1)	75 (34.1)
Shipping dimensions, in (mm)	96x6x24 (2438x152x610)	120x7x17 (3048x178x432)	120x7x17 (3048x178x432)
Mounting hardware	#4 clamp		

Environmental Specifications

Temperature range, °F (°C)	-40 to +140 (-40 to +60)		
Wind Loading Area (Flat Plate Equivalent), ft² (m²)	10.37 (0.96)		
Wind Loading Area (ice), ft² (m²)	18.98 (1.76)		
Rated wind velocity (no ice), mph (km/h)	195 (314)	100 (161)	100 (161)
Rated wind velocity (1/2" radial ice), mph (km/h)	155 (250)	85 (137)	85 (137)
Lateral thrust (100mph), lbs (N)	403 (1792.5)	570 (2535.4)	570 (2535.4)

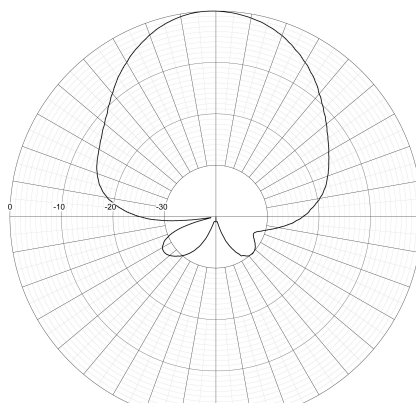
SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
Vertical
Relative Gain - 10 dB per Division

SV228-HF2SNM

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
Horizontal
Relative Gain - 10 dB per Division

SV228-SF1SNM

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